

LS

Horizontal split-case pumps

50 Hz



| | | | |
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1. Applications



Grundfos single-stage LS pump

The Grundfos LS pumps are used for liquid transfer and pressure boosting in these main fields of application:

- Commercial systems
- industrial systems
- water distribution
- irrigation.

Commercial systems

- Air-conditioning and chilled-water systems
- water-condensing systems and cooling towers
- boiler-feed and condensate systems
- district heating plants and heating systems
- district cooling plants
- swimming pools and fountains.

Industrial systems

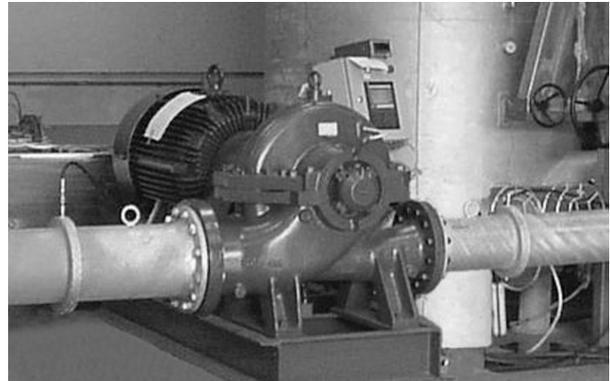
- Process-cooling and chilled-water systems
- industrial heating systems
- wash-down and cleaning systems.

Water distribution and water treatment

- Public waterworks
- potable and non-potable water systems.

Irrigation and aquaculture

- Field irrigation (flooding)
- sprinkler irrigation.



LS pump in industrial pressure boosting



LS pump in sprinkler irrigation

TM047807

TM033903

GR2910_VW

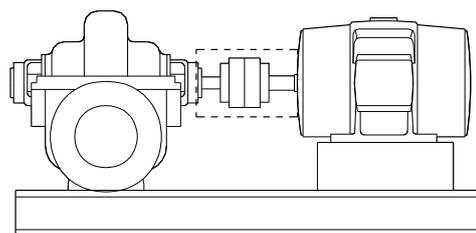
2. Features and benefits

The Grundfos LS horizontal split-case pump is a single-stage, centrifugal volute pump with high energy efficiency and low life-cycle costs.

Ease of service and long-term reliability are two of the selling features of the LS pumps. The split-case design enables removal and dismantling of the internal pump parts (bearings, wear rings, impeller, and shaft seals) without disturbing the motor or pipes. The two-bearing design means less vibration and higher reliability. The separate bearing housings allow for inspection of the seals and bearings without removing the top half of the casing.

The double-suction design reduces axial forces by directing flow into both sides of the impeller. The double-volute design, available on most models, reduces the radial load and minimises noise and vibration.

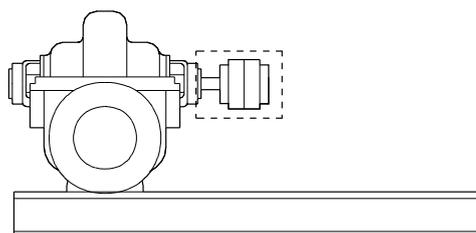
- LS pumps cover this performance range:
Flow rate: 10 to 2500 m³/h.
Head: 5 to 235 m.
Motor (P2): 1.5 to 630 kW.
- The pumps are non-self-priming, centrifugal volute pumps with radial inlet and radial outlet ports and a horizontal shaft.
- Inlet and outlet flanges are PN 16 according to EN 1092-2 (DIN2501). The pumps are also available with PN 10 flanges for the low-pressure range.
- The pump is long-coupled with a totally enclosed fan-cooled standard motor with main dimensions to IEC and DIN standards and mounting designation B3 (IM 1001).
- The rotating assembly is dynamically balanced according to ISO 1940 class G6.3.
- Impellers are hydraulically balanced.
- Pump and motor are mounted on a common base frame in the form of a welded, steel C-channel profile.
- Grundfos LS pumps are available in three different variants:
 1. Pump with motor and base frame.



TM047331

LS pump with motor and base frame

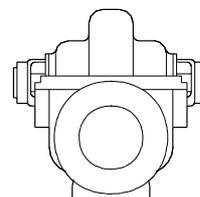
2. Bare shaft pump, i.e. pump without motor, with base frame.



TM055003

LS bare shaft pump with base frame, coupling and guard.

3. Bare shaft pump, i.e. pump without motor, without base frame.



TM055875

LS bare shaft pump

3. Performance range

Grundfos LS pumps are available with 2-, 4- or 6-pole motors.

The next three pages show the performance range covered by these three motor types.

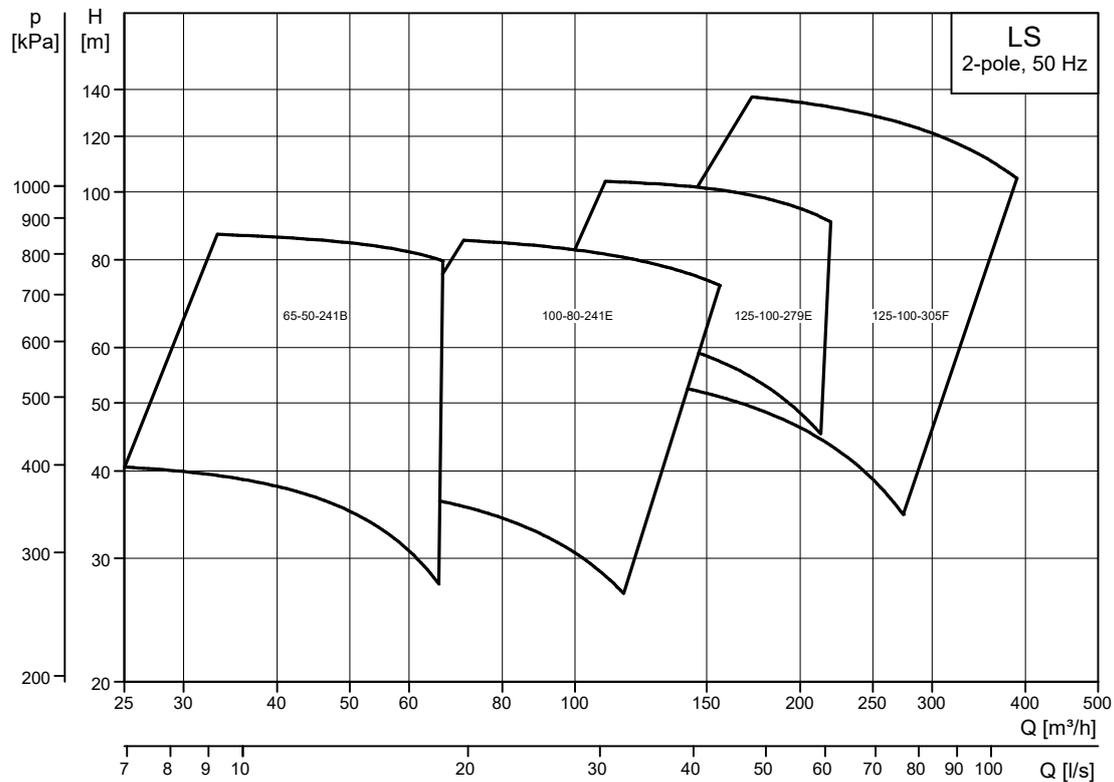
Knowing your required duty point, use the performance ranges like this:

1. Go into the relevant performance range chart.
2. Find your duty point.
3. Note which pump type covers your duty point.
4. Go to the Pump range section and find the selected pump. Go to the listed page number in section Performance curves and technical data to find more detailed information on your chosen pump.

Related information

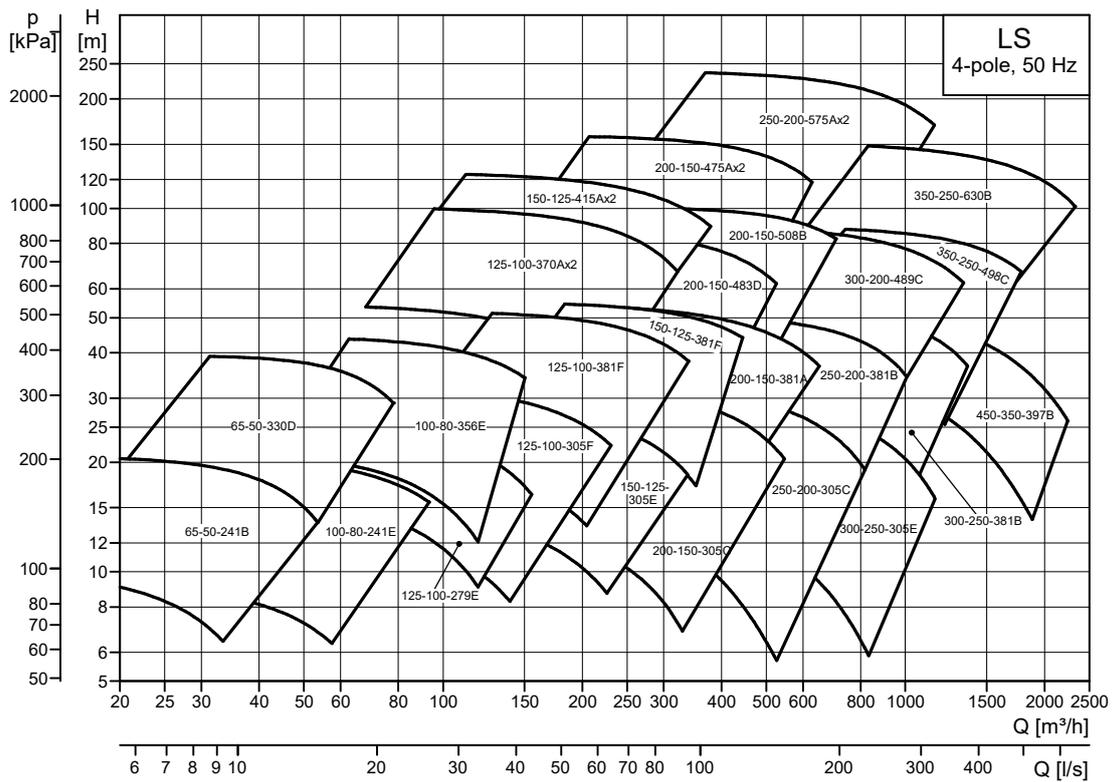
[Pump range](#)

LS 2-pole



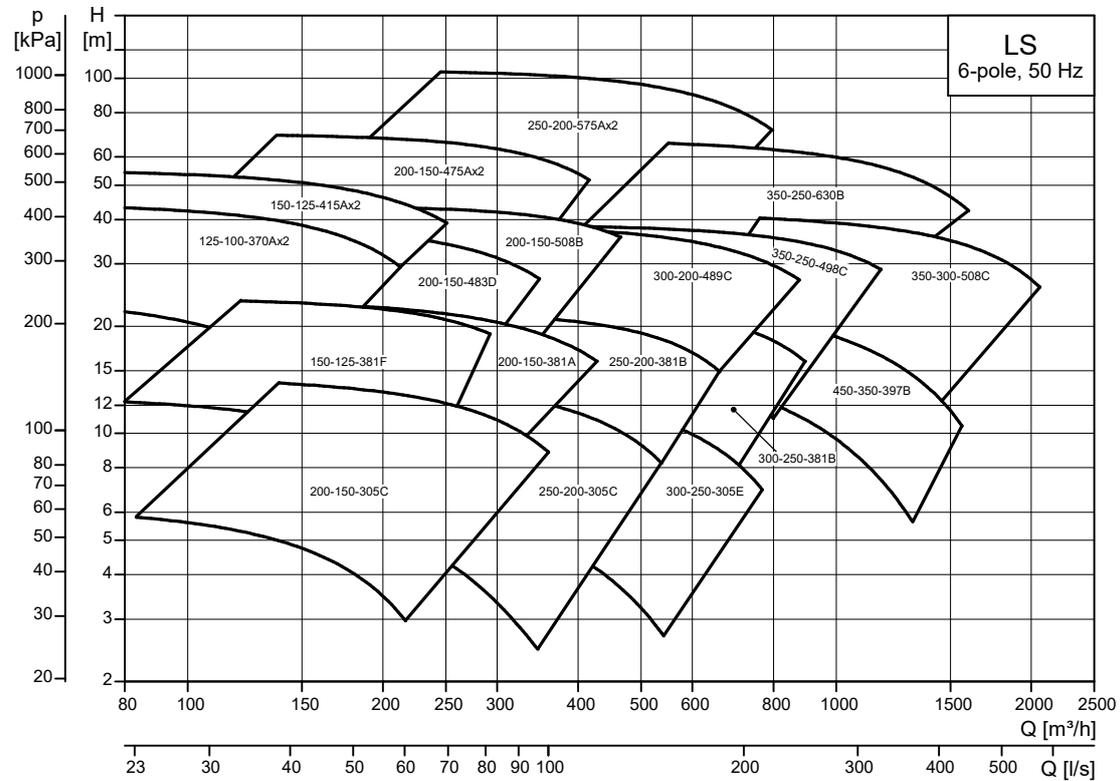
TM072781

LS 4-pole



TM072782

LS 6-pole



TM072783

4. Product range

Pump configurations

| | Standard configuration | Optional configuration |
|--|---|--|
| Pump casing | Cast iron | Ductile iron |
| Shaft | Stainless steel | Duplex stainless steel |
| Impeller | Stainless steel | Bronze |
| Wear rings | Bronze | Stainless steel |
| Coupling | Flexible grid/Pin and bush | Spacer coupling |
| Shaft seal | Mechanical seal | Stuffing box |
| Flange | EN 1092-2 (DIN 2501), PN 16 | EN 1092-2 (DIN 2501), PN 10 and PN 25 |
| Flushing line | - | Nylon, stainless steel, copper |
| Motor | IE3 motor, MMG-G IE3 motor (MG, Siemens) Siemens IE4 motor, 75-200 kW | High-voltage motor Siemens IE4 motor MMG-H IE3 motor |
| Motor bearing | - | Insulated bearing |
| Pump direction of rotation (seen from motor side) | CW - clockwise | CCW - counterclockwise |

To a great extent the pumps can be adapted to the requirements of the individual customer. For customised solutions, contact your local Grundfos company.

Pump range

The table below gives an overview of the LS pump range (PN16). The PN 10 pump range does not include all impeller sizes (see individual performance curves).

The product range includes the pumps found in Grundfos Product Center.

LS pumps are available with 2-, 4- or 6-pole motors; other motor pole numbers are available on request.

LS pumps are available in two different construction types, both with mechanical shaft seal.

| Pump sizes | Motor range [kW] | | | Standard construction type | | | | Optional construction type | |
|------------------|------------------|------------|----------------------|----------------------------|-----------------|---|---|----------------------------|---|
| | 2-pole | 4-pole | 6-pole ¹⁾ | 1 | 2 | 3 | 4 | 1 | 2 |
| LS 65-50-241 | 11-45 | 1.5 - 5.5 | - | • | - | - | - | • | - |
| LS 65-50-330 | - | 4.0 - 15 | - | • | - | - | - | • | - |
| LS 100-80-241 | 15-75 | 2.2 - 7.5 | - | • | - | - | - | • | - |
| LS 100-80-356 | - | 7.5 - 30 | - | • | - | - | - | • | - |
| LS 125-100-279 | 18.5 - 90 | 2.2 - 15 | - | • | - | - | - | • | - |
| LS 125-100-305 | 30-90 | 4.0 - 22 | - | • | - | - | - | • | - |
| LS 125-100-381 | - | 11-75 | - | • | - | - | - | • | - |
| LS 125-100-388 | - | 11-75 | - | - | - | - | - | • | - |
| LS 150-125-305 | - | 15-75 | - | • | - | - | - | • | - |
| LS 150-125-381 | - | 5.5 - 37 | 7.5 - 22 | • | - | - | - | • | - |
| LS 200-150-305 | - | 11-45 | 4.0 - 18.5 | • | - | - | - | • | - |
| LS 200-150-381 | - | 18.5 - 110 | 11-45 | • | - | - | - | • | - |
| LS 200-150-483 | - | 55-160 | 15-45 | • ²⁾ | • ³⁾ | - | - | • | • |
| LS 200-150-508 | - | 55-250 | 18.5 - 75 | - | • | - | - | - | • |
| LS 250-200-305 | - | 15-55 | 5.5 - 30 | • | - | - | - | • | - |
| LS 250-200-381 | - | 30-160 | 11-45 | • | - | - | - | • | - |
| LS 300-200-489 | - | 110-355 | 37-110 | - | • | - | - | - | • |
| LS 300-250-305 | - | 30-90 | 11-30 | • | - | - | - | • | - |
| LS 300-250-381 | - | 55-200 | 18.5 - 55 | • | - | - | - | • | - |
| LS 350-250-498 | - | 160-500 | 45-200 | - | • | - | - | - | • |
| LS 350-250-630 | - | 250-630 | 75-315 | - | • | - | - | - | • |
| LS 350-300-508 | - | - | 55-200 | - | • | - | - | - | • |
| LS 450-350-397 | - | 110-250 | 37-75 | - | • | - | - | - | • |
| LS 125-100-370x2 | - | 37-90 | - | - | - | • | - | - | - |
| LS 150-125-415x2 | - | 55-160 | - | - | - | • | - | - | - |
| LS 200-150-475x2 | - | 110-315 | 37-90 | - | - | • | - | - | - |
| LS 250-200-575x2 | - | 250-600 | 90-220 | - | - | - | • | - | - |

¹⁾ For 6-pole models with grey background, the pump impeller is only available with stainless steel, not with bronze with sleeve.

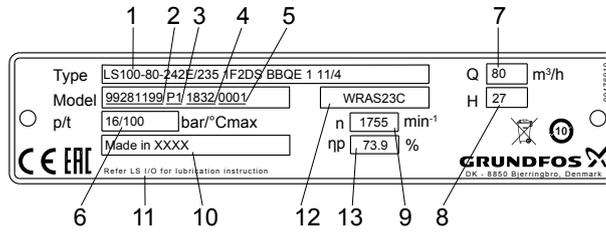
²⁾ Construction type 1 is for 55-90 kW, 4-pole and 15-45 kW, 6-pole.

³⁾ Construction type 2 is for values above 90 kW, 4-pole.

5. Identification

Nameplate

The pump nameplate gives the details of the pump.



TM072166

Nameplate of LS pump

| Pos. | Description | Pos. | Description | Pos. | Description |
|------|--------------------------|------|---|------|---|
| 1 | Type designation | 6 | Maximum pressure and temperature | 11 | Reference to LS installation and operating instructions for bearing lubrication |
| 2 | Product number | 7 | Rated flow rate (duty-point flow rate) | 12 | Liquid temperature rating, only for WRAS-approved pumps |
| 3 | Place of production | 8 | Head at rated flow rate (duty-point head) | 13 | Hydraulic pump efficiency at optimum efficiency point |
| 4 | Production year and week | 9 | Speed | | |
| 5 | Serial number | 10 | Country of production | | |

Type key

Example: LS125-100-305X,(W) 1F1DS BAQE 1

| Pos. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|---------|----|-----|------|-------|------|---|----|---|---|------|----|
| Example | LS | 125 | -100 | -305x | ,(W) | 1 | F1 | D | S | BAQE | 1 |

| Pos. | Code | Explanation |
|------|-------|--|
| 1 | LS | Type range LS: Horizontal version |
| 2 | 125 | Nominal diameter of inlet port (DN) |
| 3 | -100 | Nominal diameter of outlet port (DN) |
| 4 | -305x | Maximum impeller diameter [mm] If suffix "x" is used, the impeller or construction design is different, e.g. A, B, C,...Z. If suffix "x2" is used, the impeller is a double-stage impeller. |
| 5 | ,(W) | Drink water code (optional) ACS or WARS certified pump |
| | | Pump variant |
| | | 1: Grease-lubrication For LS, pump with motor, common base frame and non-spacer coupling For LSV, pump with motor, base frame, motor stool and non-spacer coupling |
| | | 2: Grease-lubrication For LS, bare shaft pump with common base frame, non-spacer coupling For LSV, pump with base frame, motor stool and non-spacer coupling |
| | | 3: Grease-lubrication For LS, bare shaft pump For LSV, bare shaft pump with base frame |
| | | 4: Grease-lubrication For LS, pump with motor, separated base frame and spacer coupling For LSV, pump with motor, base frame, motor stool and spacer coupling |
| 6 | 1 | 5: Grease-lubrication For LS, pump with separated base frame and spacer coupling For LSV, pump with base frame, motor stool and spacer coupling |
| | | 6: Oil-lubrication LS pump with motor, common base frame and non-spacer coupling |
| | | 7: Oil-lubrication LS bare shaft pump with common base frame and non-spacer coupling |
| | | 8: Oil-lubrication LS bare shaft pump |
| | | 9: Oil-lubrication LS pump with motor, separated base frame and spacer coupling |
| | | A: Oil-lubrication LS pump with separated base frame and spacer coupling |
| | | X: Special variant |
| | | Pipe connection |
| 7 | F1 | F1: 10 bar, DIN PN 10 F2: 16 bar, DIN PN 16 F3: 25 bar, DIN PN 25 XX: Special flange |
| | | G1: 175PSI(12 bar), ANSI125LB/150LB G2: 250PSI(17.2 bar), ANSI250LB/300LB G3: 400PSI(27.6 bar), ANSI250LB/300LB |

| Pos. | Code | Explanation |
|------|------|--|
| 8 | D | Code for shaft and sleeve materials D: SS420 and no sleeve E: SS304 and no sleeve J: SS316 and no sleeve L: Duplex stainless steel and no sleeve X: Special |
| | | B: SS420 and bronze A: SS420 and SS304 C: SS420 and SS316 K: Duplex stainless steel and duplex stainless steel Q: Alloy steel and no sleeve M: Alloy steel and bronze N: Alloy steel and SS304 |
| 9 | S | Code for pump casing and impeller materials B: Cast iron and bronze S: Cast iron and SS304 C: Cast iron and SS316 D: Cast iron and duplex stainless steel U: SS304 and SS304 K: Duplex stainless steel and duplex stainless steel X: Special |
| | | A: Ductile iron and bronze Q: Ductile iron and SS304 G: Ductile iron and SS316 H: Ductile iron and duplex stainless steel J: SS316 and SS316 |
| 10 | BAQE | Code for shaft seals or stuffing box BAQE : Rubber bellows unbalance seal, carbon ⁴⁾ , SiC, EPDM AAQE : O-ring unbalance seal, carbon ⁴⁾ , SiC, EPDM DAQE : O-ring balance seal, carbon ⁴⁾ , SiC, EPDM SAQE : Rubber bellows balance seal, carbon ⁴⁾ , SiC, EPDM BBQE : Rubber bellows unbalance seal, carbon, SiC, EPDM ABQE : O-ring unbalance seal, carbon, SiC, EPDM DBQE : O-ring balance seal, carbon, SiC, EPDM SBQE : Rubber bellows balance seal, carbon, SiC, EPDM BQQE : Rubber bellows unbalance seal, SiC, SiC, EPDM AQQE : O-ring unbalance seal, SiC, SiC, EPDM DQQE : O-ring balance seal, SiC, SiC, EPDM SQQE : Rubber bellows balance seal, SiC, SiC, EPDM |
| | | BBVP: Rubber bellows seal, carbon, aluminium oxide, nitrile rubber SNEK: Stuffing box with synthetic polymer packing rings, uncooled, with internal barrier fluid BAQV: Rubber bellows unbalance seal, carbon ⁴⁾ , SiC, FKM AAQV: O-ring unbalance seal, carbon ⁴⁾ , SiC, FKM DAQV: O-ring balance seal, carbon ⁴⁾ , SiC, FKM SAQV: Rubber bellows balance seal, carbon ⁴⁾ , SiC, FKM BBQV: Rubber bellows unbalance seal, carbon, SiC, FKM ABQV: O-ring unbalance seal, carbon, SiC, FKM DBQV: O-ring balance seal, carbon, SiC, FKM SBQV: Rubber bellows balance seal, carbon, SiC, FKM BQQV: Rubber bellows unbalance seal, SiC, SiC, FKM AQQV: O-ring unbalance seal, SiC, SiC, FKM DQQV: O-ring balance seal, SiC, SiC, FKM SQQV: Rubber bellows balance seal, SiC, SiC, FKM |
| 11 | 1 | Direction of rotation (Pump direction of rotation as seen from motor end) 1 Clockwise 2 Counterclockwise |

⁴⁾ Antimony, not approved for potable water.

The example shown is an LS 125-100-305F/273.1, standard type with standard coupling, DIN PN 16 flange, cast iron pump casing with SS304 impeller, BBQE mechanical shaft seal and clockwise direction of rotation.

Codes for mechanical shaft seal

Positions (1) - (4) cover four pieces of information about the mechanical shaft seal:

Example

| Code | Explanation |
|------|---|
| (1) | Grundfos type designation |
| (2) | Material, rotating seal face |
| (3) | Material, stationary seat |
| (4) | Material, secondary seal and other composite and rubber parts |

The following table explains positions (1), (2), (3) and (4).

| Pos. | Type | Short description of seal |
|-------------------|------|--|
| (1) | A | O-ring seal, unbalanced |
| | B | Rubber bellows seal, unbalanced |
| | D | Balanced O-ring seal (with the spring on the atmospheric side (protected from media) and with the spring in the media) |
| | S | Rubber bellows seal, balanced |
| | H | Cartridge seal, balanced |
| Pos. | Type | Material |
| (2) and (3) | A | Carbon, metal-impregnated (antimony, not approved for potable water) |
| | B | Carbon, resin-impregnated (approved for potable water) |
| | Q | Silicon carbide |
| | U | Tungsten carbide |
| | V | Aluminium oxide |
| (4) | E | EPDM |
| | P | Nitrile rubber (NBR) |
| | V | FKM (Viton®) |

Grundfos can offer other types of mechanical shaft seals, please contact Grundfos.

Codes for stuffing box

LS pumps are available with the stuffing box type SNEK. The positions (1) - (4) cover information about the stuffing box:

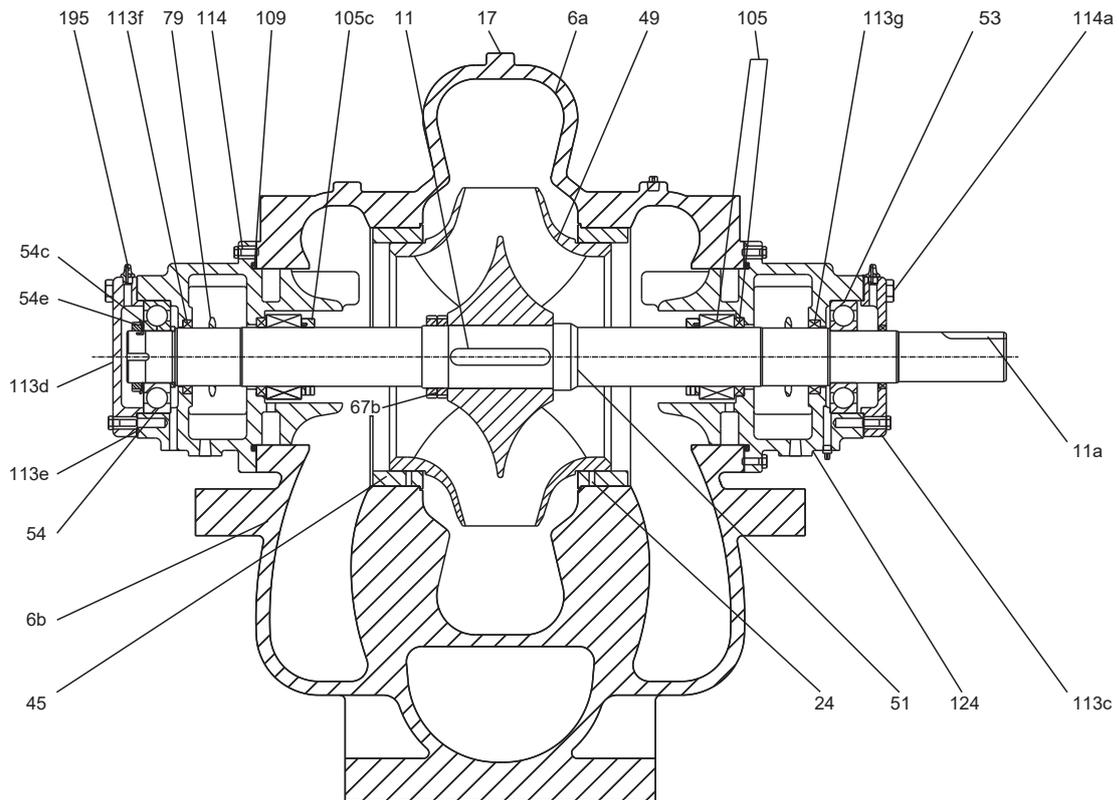
| Pos. | Code | Short description of stuffing box |
|------|------|---|
| (1) | S | Stuffing box with packing rings |
| Pos. | Code | Cooling method |
| (2) | N | Uncooled stuffing box |
| Pos. | Code | Barrier liquid |
| (3) | E | With internal barrier liquid |
| (4) | K | PTFE Polytetrafluoroethylene packing rings, NBR O-ring in the pump. |

6. Construction

Grundfos LS horizontal split-case pumps are available in two different construction types.

The construction types are available with stuffing boxes and packing rings as an option. There are small differences within each construction type. For further information, see detailed exploded views of the variants in Grundfos Product Center.

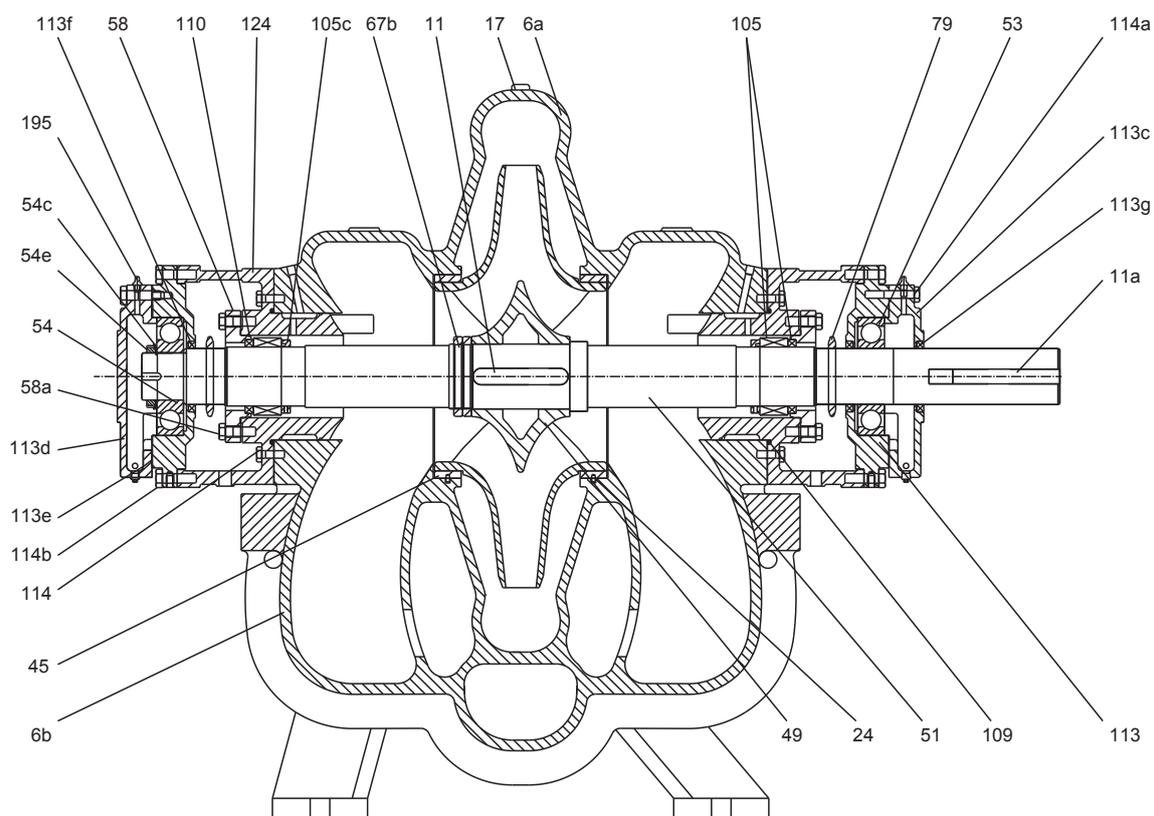
LS pump, standard construction type 1



TM071143

Sectional drawing, standard construction type 1, with mechanical shaft seals

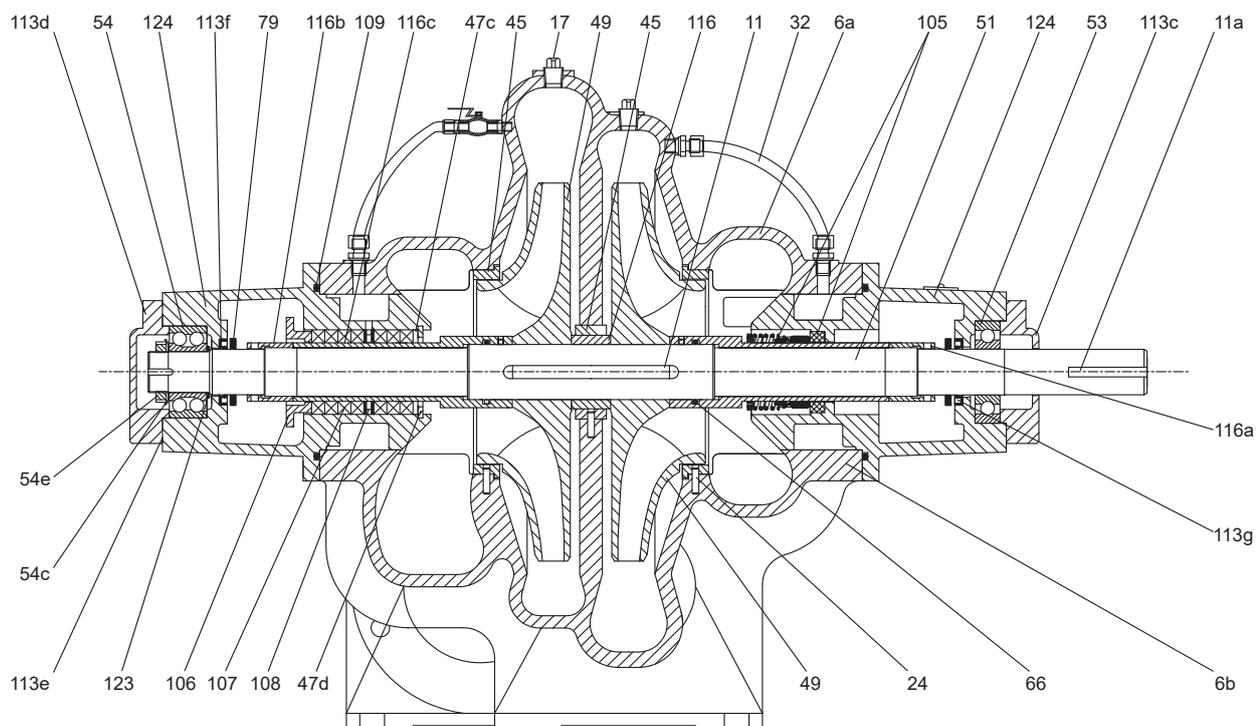
LS pump, standard construction type 2



TM071144

Sectional drawing, standard construction type 2, with mechanical shaft seals

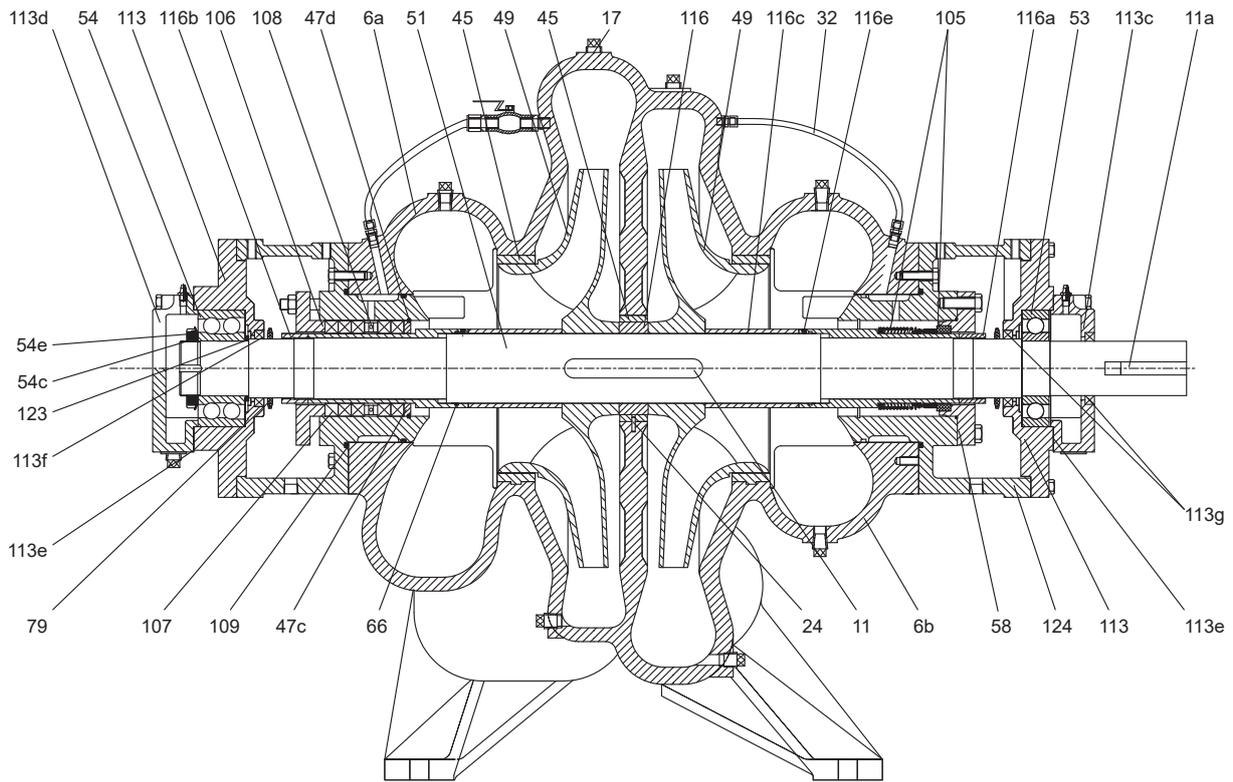
LS pump, standard construction type 3



TM071156

Sectional drawing, standard construction type 3

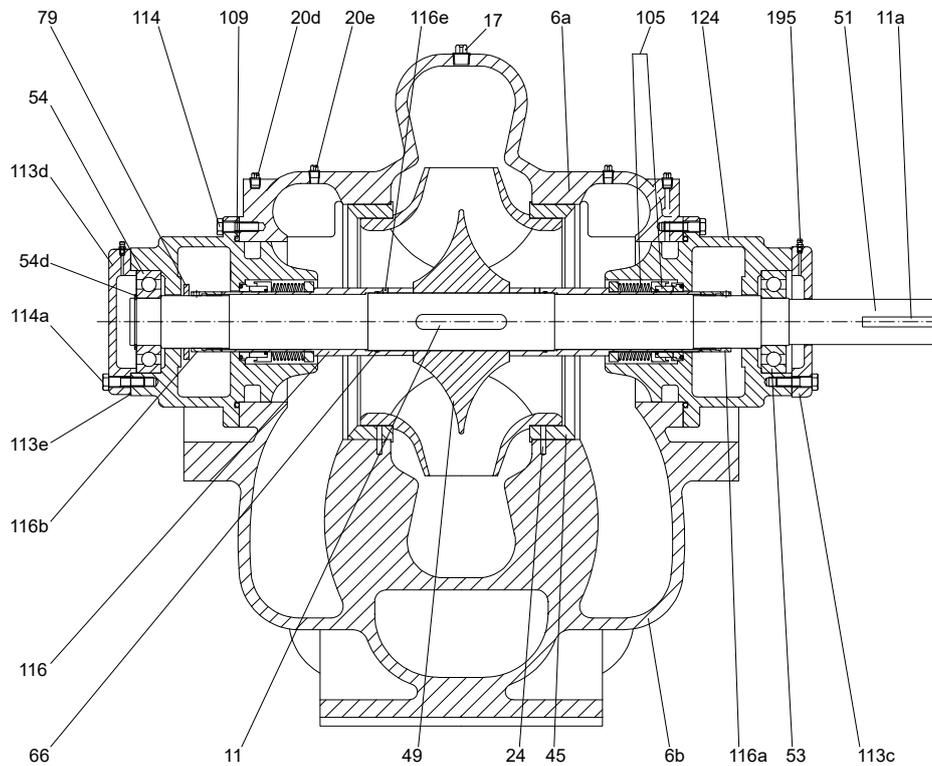
LS pump, standard construction type 4



TM071157

Sectional drawing, standard construction type 4

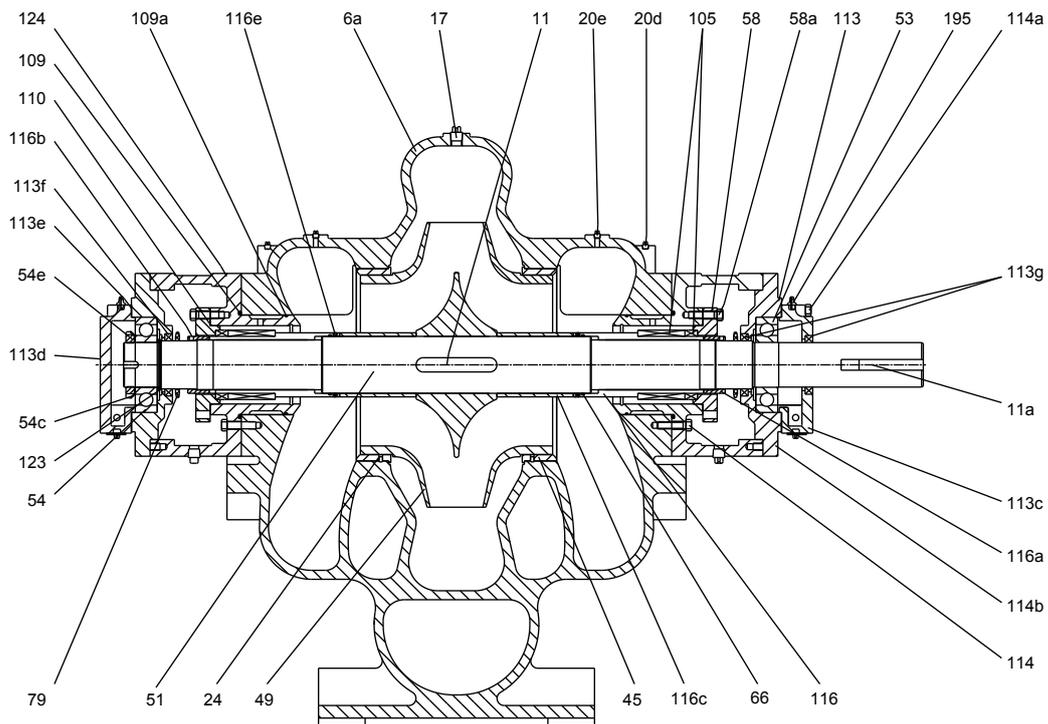
LS pump, optional construction type 1



TM071152

Sectional drawing, optional construction type 1

LS pump, optional construction type 2

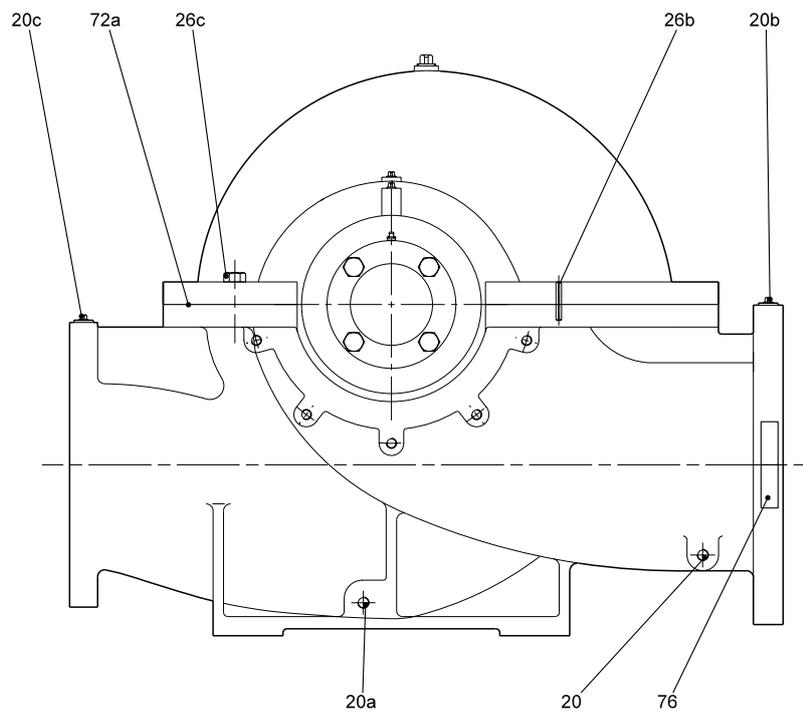


TM071153

Sectional drawing, optional construction type 2

LS pump, typical end view

Non-drive end



TM041864

Typical end view (non-drive end)

Standard components and material specification

| Pos. | Description | Material | Material standard |
|------|------------------------------|-----------------|---------------------|
| 6a | Pump casing, upper | Cast iron | ASTM A48 Class 35 |
| | | Ductile iron | ASTM A536, 65-45-12 |
| 6b | Pump casing, lower | Cast iron | ASTM A48 Class 35 |
| | | Ductile iron | ASTM A536, 65-45-12 |
| 11 | Key, impeller | Steel | ASTM A216 WCB |
| 11a | Key, coupling | Steel | ASTM A216 WCB |
| 17 | Vent screw | Bronze | |
| 20 | Drain plug | Steel | |
| 20a | Plug, drain outlet | Steel | |
| 20b | Plug, inlet | Steel | |
| 20c | Plug, outlet | Steel | |
| 20d | Plug, shaft seal flushing | Steel | |
| 20e | Plug, Inlet chamber | Steel | |
| 24 | Locking pin, wear ring | Steel | ANSI/ASME B18.8 |
| 26b | Roll pin | Steel | ANSI/ASME B18.8 |
| 26c | Screw for pump casing | Steel | |
| 32 | Flushing pipe | Stainless steel | AISI 304 |
| 45 | Wear ring | Bronze | ASTM B584, C90500 |
| 47c | Retainer for packing | Steel | ASTM A216 WCB |
| 47d | Snap ring for packing | Carbon steel | |
| 49 | Impeller | Stainless steel | ASTM CF8 |
| 51 | Shaft | Stainless steel | AISI 420 |
| 53 | Bearing, drive end | Steel | |
| 54 | Bearing, non-drive end | Steel/bronze | |
| 54c | Lock washer | Steel | |
| 54d | Circlip | Steel | ASTM A216 WCB |
| 54e | Round nut for bearing | Steel | ASTM A216 WCB |
| 58 | Seal cover | Cast iron | ASTM A48 Class 35 |
| 58a | Screw | Steel | |
| 65 | Snap ring | Stainless steel | |
| 66 | O-ring for sleeve | NBR | |
| 67b | Round nut for impeller | Stainless steel | |
| 72a | Gasket | Vegetable fibre | |
| 76 | Nameplate | Stainless steel | AISI 304 |
| 79 | Slinger | Neoprene | |
| 105 | Shaft seal | BBQV/GBQV | SiC/Carbon |
| 105c | Seal retaining ring | Stainless steel | AISI 304 |
| 106 | Packing gland | Cast iron | ASTM A48 Class 35 |
| 107 | Packing ring | PTFE | PTFE |
| 108 | Distribution ring | Steel | ASTM A216 WCB |
| 109 | O-ring | NBR | |
| 109a | O-ring | NBR | |
| 110 | O-ring | NBR | |
| 113 | Bearing housing | Cast iron | ASTM A48 Class 35 |
| 113c | Bearing cover, drive end | Cast iron | ASTM A48 Class 35 |
| 113d | Bearing cover, non-drive end | Cast iron | ASTM A48 Class 35 |
| 113e | Gasket | Vegetable fibre | |
| 113f | Lip seal, non-drive end | NBR | |
| 113g | Lip seal, drive end | NBR | |
| 114 | Screw for seal housing | Steel | |
| 114a | Screw for bearing cover | Steel | |
| 114b | Screw for bearing housing | Steel | |

| Pos. | Description | Material | Material standard |
|------|-------------------------------|-----------------|---------------------|
| 116 | Shaft sleeve | Stainless steel | AISI 304 |
| 116a | Locking sleeve, drive end | Stainless steel | AISI 304 |
| 116b | Locking sleeve, non-drive end | Stainless steel | AISI 304 |
| 116c | Shaft sleeve, inner | Stainless steel | AISI 304 |
| 116e | Screw for shaft sleeve | Steel | |
| 123 | Shoulder ring | Steel | |
| 124 | Seal housing | Cast iron | ASTM A48 Class 35 |
| | | Ductile iron | ASTM A536, 65-45-12 |
| 195 | Lubricating nipple | Bronze | |

Mechanical construction

Position numbers in the following section refer to the sectional drawings and material specification mentioned in section construction.

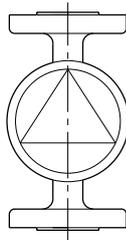
Related information

6. Construction

Pump casing

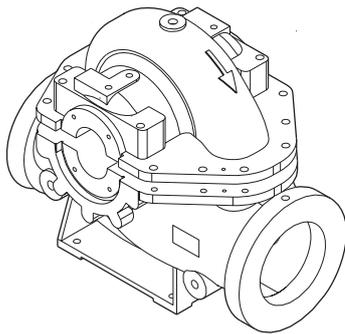
The cast iron volute pump casing has radial inlet port and radial outlet port.

The pumps are of the in-line (symmetric) design.



Schematic drawing of an in-line LS pump

Flange dimensions are in accordance with EN 1092-2 (DIN 2501).



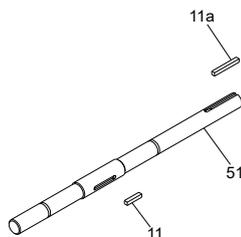
Upper and lower pump casing of an LS pump

Shaft

The shaft (51) is of the key and keyway type with one key for the impeller (11) and one key for the coupling (11a).

The shaft is supported by bearings at both the drive end and the non-drive end of the pump.

The shaft is made of stainless steel (AISI 420).



LS pump shaft

Bearings

LS pumps are fitted with two standard single-row deep-groove ball bearings. The bearings are of the open type permitting the bearings to be relubricated. The bearings are lubricated by Grundfos prior to delivery.

Seal housings

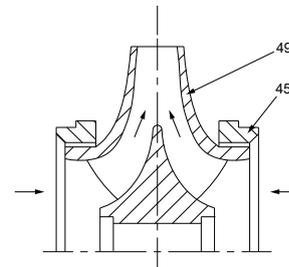
All LS pumps have two seal housings (124), one at the drive end and one at the non-drive end of the pump shaft.

A seal housing has several functions:

- It supports the pump sealing system, whether it is a mechanical shaft seal or a stuffing box.
- It supports the bearing housing, thus transmitting both radial and axial forces from bearing and shaft to the upper and lower pump casing.
- It acts as a connection for the flushing pipe.

Impeller

The LS impeller (49) is a closed double-suction impeller. The impeller has inflow of liquid from both sides and is locked in position by two round nuts



Double-suction impeller

All impellers are dynamically balanced in accordance with ANSI/ISO 1940 Class G6.3 standard. Due to their design, the impellers are inherently hydraulically balanced and thus compensate for axial thrust.

All impellers are trimmed to the duty point required by the customer and dynamically balanced together with the shaft.

Wear rings

LS pumps have wear rings (45) between impeller and pump casing.

As the name indicates, the wear rings protect the pump casing against wear. The wear rings act as a seal between impeller and pump casing.

When the wear rings become worn, the efficiency of the pump will be reduced, and the wear rings must be replaced.

TM040476

TM040475

TM040477

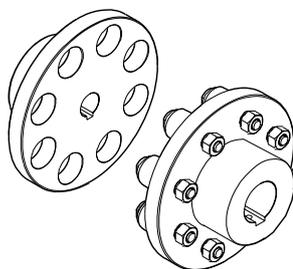
TM033891

Coupling

LS pumps are available with two types of coupling as standard:

- Flexible pin and bush coupling

| | 2-pole | 4-pole | 6-pole |
|-------|----------|----------|----------|
| 50 Hz | ≤ 400 kW | ≤ 250 kW | ≤ 160 kW |

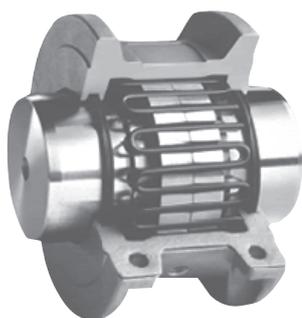


TM035394

Flexible pin and bush coupling

- Flexible grid coupling

| | 2-pole | 4-pole | 6-pole |
|-------|----------|----------|----------|
| 50 Hz | > 400 kW | > 250 kW | > 160 kW |



TM040478

Flexible grid coupling

Base frame

The pump and the motor are mounted on a common base frame.

Motor

The motor is a totally enclosed, fan-cooled motor with main dimensions according to IEC and DIN standards.

Motor efficiency is categorised according to EN 60034-2-1:2007:

- IE2: MMG motors
- IE3: MG, MMG and Siemens motors
- IE4: Siemens motors.

For special motors, please contact Grundfos.

Mechanical shaft seal

LS pumps are supplied with a BBQE shaft seal as standard.

These shaft seals are available on request:

- BBQV
- BQQE
- BQQV.

Seal face material

Carbon/silicon carbide (xBQx)

Seals with one carbon seal face have the following features:

- brittle material requiring careful handling
- worn by liquids containing solid particles
- good corrosion resistance
- can withstand temporary dry running.

The self-lubricating properties of carbon make the seal suitable for use even with poor lubricating conditions (high temperatures) without generating noise. However, such conditions will cause wear of the carbon seal face leading to reduced seal life.

Secondary seal material

FKM (xxxV)

FKM rubber covers a very wide range of liquids and temperatures and has the following features:

- poor mechanical properties at low temperatures
- resistant to water up to 90 °C
- resistant to mineral oils and vegetable oils
- not resistant to alkaline liquids at high temperatures.

EPDM (xxxE)

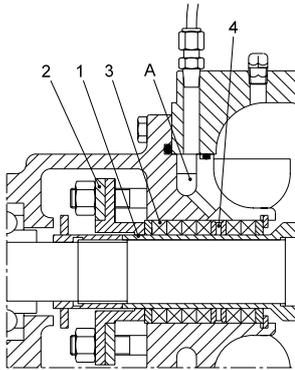
EPDM rubber covers a wider range of liquids up to a maximum temperature of 120 °C. EPDM rubber has good mechanical properties.

Stuffing boxes

Stuffing boxes of the SNEK type are available as an alternative to mechanical shaft seals.

The stuffing box includes graphite-impregnated packing rings.

The packing rings consist of braided material which is effective for ensuring a long service life for packing rings while protecting the shaft (sleeve). When fitted, the packing rings are symmetrical, having parallel facings that prevent tilting.



TM041849

Sectional view of a stuffing box with internal flushing liquid

| Pos. | Description |
|------|--|
| 1 | Shaft sleeve |
| 2 | Gland |
| 3 | Packing ring |
| 4 | Distribution ring |
| A | Drilled hole for flushing liquid (pumped liquid) |

Test pressure

Pressure testing is made with water at 20 °C containing a corrosion inhibitor.

The standard hydrostatic test pressure is 1.5 times higher than the 'closed valve' or 'shut off' pressure. However, this may vary from one LS pump to another. See the table below.

| Rated pressure | Operating pressure | | Test pressure | |
|----------------|--------------------|-------|---------------|-------|
| | [bar] | [MPa] | [bar] | [MPa] |
| PN 10 | 10 | 1.0 | 15 | 1.5 |
| PN 16 | 16 | 1.6 | 24 | 2.4 |
| PN 25 | 25 | 2.5 | 37 | 3.7 |

7. Operating conditions

Ambient temperature and altitude

The ambient temperature and the installation altitude are important factors for the motor lifetime, as they affect the life of the bearings and the insulation system.

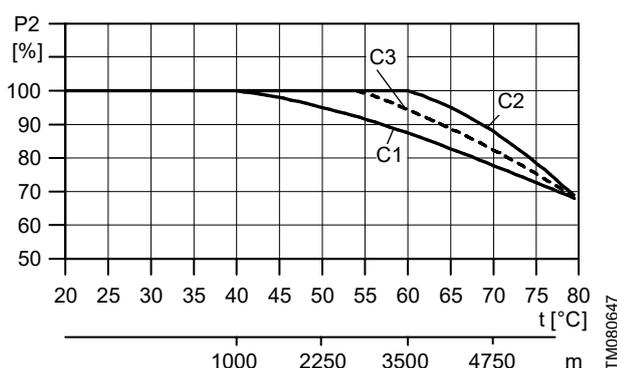
If the ambient temperature or the altitude exceeds the recommended maximum ambient temperature or maximum altitude above sea level, the motor must not be fully loaded due to the low density and consequently low cooling effect of the air. In such cases, it may be necessary to use a motor with a higher output.

Ambient temperature

| Motor make | Motor P2 | Permissible ambient temperature |
|------------|----------------|---------------------------------|
| MG | 0.25 - 0.55 kW | -20 - +40 °C |
| | 0.75 - 22 kW | -20 - +60 °C |
| Siemens | 0.75 - 462 kW | -20 - +55 °C |
| MMG-H2 | 0.75 - 450 kW | -20 - +60 °C |
| MMG-H3 | 0.75 - 200 kW | -30 - +60 °C |
| MMG-G2 | 0.75 - 630 kW | -20 - +60 °C |
| MMG-G3 | 0.75 - 315 kW | -20 - +60 °C |

Maximum motor output in relation to ambient temperature and altitude

| Motor make | Motor P2 | Derating curve |
|-------------|----------------|------------------|
| MG | 0.25 - 0.55 kW | C1 |
| | 0.75 - 22 kW | C2 |
| Siemens IE3 | 0.75 - 462 kW | C3 |
| Siemens IE4 | 75-200 kW | See figure below |
| MMG-H2 | 0.75 - 450 kW | C2 |
| MMG-H3 | 0.75 - 200 kW | C2 |
| MMG-G2 | 0.75 - 630 kW | C2 |
| MMG-G3 | 0.75 - 315 kW | C2 |



Relationship between motor output (P2) and ambient temperature

Example

The figure above shows that an MG IE3 motor must not be loaded by more than 89 % of the rated output at an ambient temperature of 70 °C. If the pump is installed 4750 metres above sea level, the motor must not be loaded by more than 89 % of the rated output. In cases

where both the maximum temperature and the maximum altitude are exceeded, the derating factors must be multiplied ($0.89 \times 0.89 = 0.79$).

Liquid temperatures and shaft seals

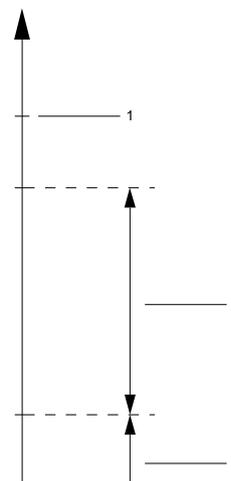
The maximum liquid temperature marked on the pump nameplate depends on the mechanical shaft seal used:

- Temperature range for FKM (BBQV - optional): 0-90 °C.
- Temperature range for EPDM (BBQE - optional): 0-120 °C.

Minimum temperature of -25 °C can be achieved for certain applications. Contact the factory for specific information.

Pressure

Maximum operating pressure



TM040062

Pressures in the pump

| Pos. | Description |
|------|--|
| 1 | Maximum operating pressure (pressure above atmospheric pressure) |
| 2 | Pump pressure |
| 3 | Inlet pressure |

The inlet pressure + the pump pressure must be lower than the maximum operating pressure (p) stated on the pump nameplate. The maximum operating pressure can be checked by closing the outlet valve briefly (maximum 30 seconds).

Minimum inlet pressure

The minimum inlet pressure must be according to the NPSH curve + correction for vapour pressure + a safety margin of minimum 0.5 metres head. We do, however, recommend that you calculate the inlet pressure in these cases:

- the liquid temperature is high

- the flow rate is considerably higher than the pump's rated flow rate
- the pump is operating in an open system with suction lift
- the liquid is sucked through long pipes
- the inlet conditions are poor
- the operating pressure is low.

Maximum inlet pressure

The inlet pressure + the pump pressure must be lower than the maximum operating pressure (p) stated on the pump nameplate. The maximum operating pressure can be checked by closing the outlet valve briefly (maximum 30 seconds).

Flow rate

Minimum flow rate

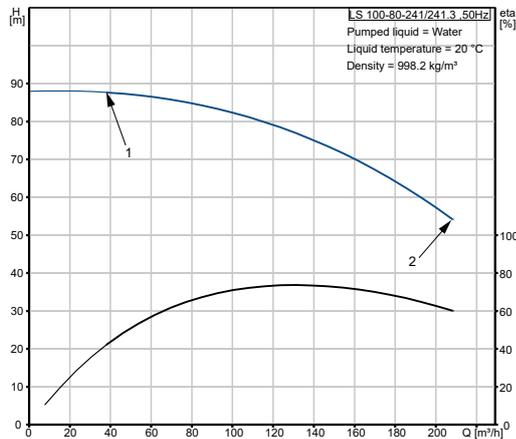
The pump must not run against a closed outlet valve, as this will cause an increase in temperature or formation of steam in the pump. This may cause shaft damage, impeller erosion, short life of bearings, stuffing boxes with packing rings or mechanical seals due to stress or vibration.

The minimum, continuous flow rate must be at least 25 % of the flow rate at best-efficiency point (BEP).

Maximum flow rate

The maximum flow rate must not be exceeded as otherwise there is a risk of, for instance, cavitation and overload.

You can read the maximum flow rate either from the performance curve pages or from a curve on a specific pump when selecting it in Grundfos Product Center.



Example from Grundfos Product Center showing minimum and maximum flow rate

| Pos. | Description |
|------|-------------------|
| 1 | Minimum flow rate |
| 2 | Maximum flow rate |

Maximum particle size

The table shows the maximum free passage through the impeller.

| Pump type | Maximum free passage through the impeller [mm] |
|------------------|--|
| LS 65-50-241 | 4.8 |
| LS 65-50-330 | 4.1 |
| LS 100-80-241 | 7.9 |
| LS 100-80-356 | 7.9 |
| LS 125-100-279 | 9.7 |
| LS 125-100-305 | 19.1 |
| LS 125-100-381 | 6.4 |
| LS 125-100-388 | 6.4 |
| LS 150-125-305 | 16.0 |
| LS 150-125-381 | 19.1 |
| LS 200-150-305 | 25.4 |
| LS 200-150-381 | 20.6 |
| LS 200-150-483 | 19.1 |
| LS 200-150-508 | 19.1 |
| LS 250-200-305 | 22.4 |
| LS 250-200-381 | 25.4 |
| LS 300-200-489 | 26.2 |
| LS 300-250-305 | 25.4 |
| LS 300-250-381 | 31.8 |
| LS 350-250-498 | 30.5 |
| LS 350-250-630 | 29.7 |
| LS 350-300-508 | 47.5 |
| LS 450-350-397 | 47.5 |
| LS 125-100-370x2 | 14.2 |
| LS 150-125-415x2 | 14.2 |
| LS 200-150-475x2 | 17.3 |
| LS 250-200-575x2 | 22.9 |

8. Installation

Reference

Please read this section on installation of LS pumps as an overview of the installation requirements to be fulfilled.

For full details on foundation, mechanical installation, alignment, pipes, electrical installation, etc., please refer to the installation and operating instructions for the LS pumps. Installation and operating instructions can be downloaded from the literature section of Grundfos Product Center, or you may contact your local Grundfos company.

Mechanical installation

Vibration dampers

A specific application may call for vibration dampers to prevent pump vibrations from being transmitted to the building or the pipes. In order to select the right vibration damper, you need this information:

- forces transferred through the damper
- motor speed. In case of speed control, this must also be taken into account
- desired dampening in % (recommended value is 70 %).

The selection of vibration damper differs from installation to installation. In certain cases a wrong damper may increase the vibration level. Vibration dampers must therefore be sized by the supplier of the vibration dampers.

Expansion joints

Expansion joints provide these advantages:

- absorption of thermal expansion and contraction of pipes caused by variations in liquid temperature
- reduction of mechanical influences in connection with pressure surges in the pipes
- isolation of structure-borne noise in the pipes (only rubber bellows expansion joints).

Note: Do not use expansion joints to adjust for inaccuracy in the pipes, for instance centre displacement or misalignment of flanges.

The expansion joints must be fitted at a minimum distance of two pipe diameters (DN) away from the pump flange on the inlet side. This prevents turbulence in the joints, thus ensuring optimum inlet conditions.

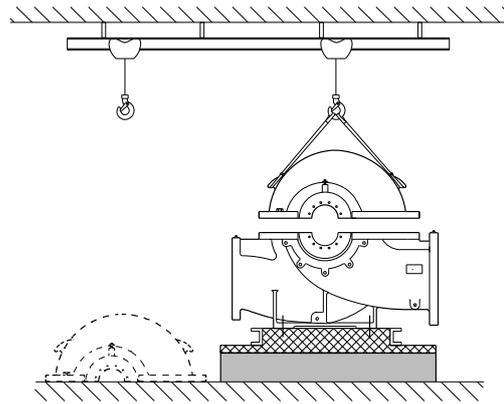
At flow velocities > 2.4 m/s, we recommend that you fit larger expansion joints matching the pipes.

For pipe sizes above DN 100, we recommend that you use restrained expansion joints to restrict the spring force of the joint itself.

Location

Install the pump as close as possible to the supply of pumped liquid and with the shortest and most direct inlet pipe practical.

Install the pump with sufficient accessibility for inspection and maintenance. Allow ample space and headroom for the use of an overhead crane or hoist sufficiently strong to lift the unit.



TM040382

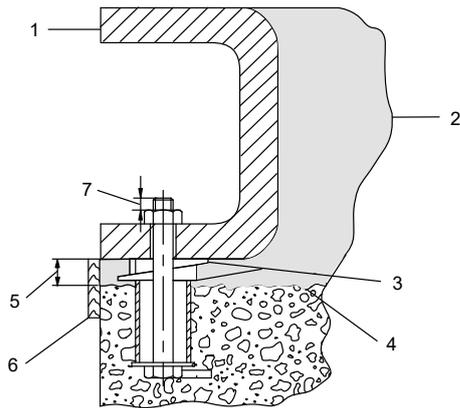
LS pump with accessibility for inspection and headroom for the use of an overhead crane

Foundation

We recommend that you install the pump on a concrete foundation which is heavy enough to provide permanent and rigid support for the entire pump. The foundation must be capable of absorbing any vibration, normal strain or shock. We recommend that the weight of the concrete foundation is three times the weight of the complete pump unit. For specific requirements, please consult the contractor or the engineer, or comply with established industry standards.

In installations where silent operation is particularly important, we recommend a foundation with a mass up to five times that of the complete pump unit.

Grouting



TM040384

Sectional view of foundation with anchor bolt, grouting and base frame

| Pos. | Description |
|------|---|
| 1 | Base frame |
| 2 | Grout |
| 3 | Levelling wedges or shims left in place |
| 4 | Top of foundation (rough) |
| 5 | 19 to 32 mm grout |
| 6 | Formwork |
| 7 | 5-10 mm |

Grouting compensates for uneven foundation, distributes the weight of the unit, dampens vibrations and prevents shifting. Use an approved, non-shrinking grout. If you have questions or doubts about the grouting, please contact an expert on grouting.

Measuring instruments

To ensure continuous monitoring of operation, we recommend that you install pressure gauges on the pump inlet and outlet flanges. The pressure gauge on the inlet side must be capable of measuring vacuum. The pressure gauge tappings should only be opened for test purposes. The measuring range of the outlet side pressure gauge must be 20 % above the maximum pump outlet pressure.

When measuring with pressure gauges on the pump flanges, please note that a pressure gauge does not register dynamic pressure (velocity pressure). On LS pumps, the diameters of the inlet and outlet flanges are different, which results in different flow velocities in the two flanges. Consequently, the pressure gauge on the outlet flange will not show the pressure stated in the technical documentation, but a value which may be lower.

Pipes

Inlet and outlet pipe

In order to minimise friction losses and hydraulic noise in the pipes, choose pipes that are one or two sizes larger than the pump inlet and outlet ports. Typically, flow velocities must not exceed 2 m/s (6 ft/sec) for the inlet pipe (port) and 3 m/s (9 ft/sec) for the outlet pipe (port). Make sure that the NPSH available (NPSHA) is higher than the NPSH required (NPSHR). NPSH = Net Positive Suction Head.

General precautions

When installing the pipes, observe these precautions:

- Always run the pipes direct to the pump.
 - Note:** Make sure that both inlet and outlet pipes are independently supported near the pump so that no strain is transmitted to the pump when the flange bolts are tightened. Use pipe hangers or other supports with necessary spacing to provide support.
- When expansion joints are used in the pipe system, fit the joints at a minimum distance of two pipe diameters away from the pump on the inlet side. This prevents turbulence in the joints, thus ensuring optimum suction conditions.
- Install pipes as straight as possible and avoid unnecessary bends. Where necessary, use 45 ° or long sweep 90 ° fittings to reduce friction loss.
- Where flanged joints are used, ensure that inside diameters match properly.
- Provide for expansion of pipe material by means of expansion joints on both sides of the pump.
- Always allow sufficient space/accessibility for maintenance and inspection.

Inlet pipes

Note: The sizing and installation of the inlet pipes is extremely important.

Locate the pump below system level whenever possible. This will facilitate priming, assure a steady liquid flow and provide a positive suction head.

Many NPSH problems can be avoided if the inlet pipes are properly installed.

System types

These pumps can be installed in two types of system:

1. Closed systems or open systems where the liquid level is above the pump inlet (flooded systems), meaning that a positive⁵⁾ inlet pressure will be available.
2. Open systems where the liquid level is below the pump inlet (suction lift), meaning that a negative⁵⁾ inlet pressure will be available.

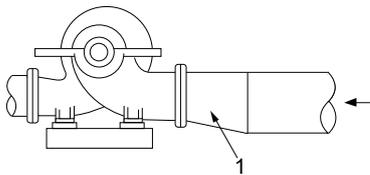
⁵⁾ Positive or negative inlet pressure in relation to ambient atmospheric pressure.

Common guidelines

Avoid air pockets or turbulence in the inlet pipe

Never use reducers in a horizontal inlet pipe as shown in figure Reducers resulting in air pockets and turbulence. Instead, use an eccentric reducer as illustrated in figure Correctly mounted reducer.

Correct

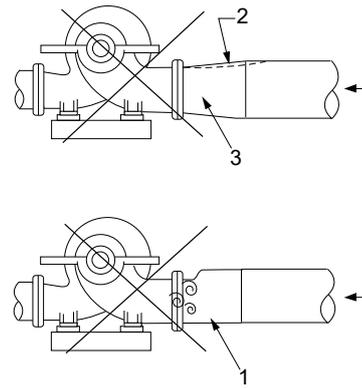


TM040093

Correctly mounted reducer

| Pos. | Description |
|------|-------------------|
| 1 | Eccentric reducer |

Wrong



TM040092

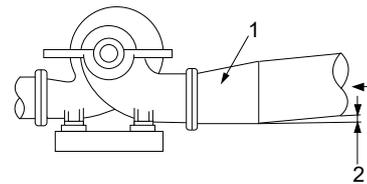
Reducers resulting in air pockets and turbulence

| Pos. | Description |
|------|--------------------|
| 1 | Turbulent flow |
| 2 | Air pocket |
| 3 | Concentric reducer |

Flooded systems

Closed systems and open systems where the liquid level is above the pump inlet.

Correct



TM040148

Correctly mounted inlet pipe

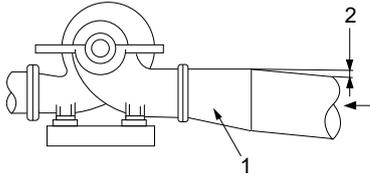
| Pos. | Description |
|------|--------------------------------|
| 1 | Eccentric reducer |
| 2 | Pipe sloping down towards pump |

Suction lift systems

Open systems where the liquid level is below the pump inlet.

Install the inlet pipe sloping upwards towards the inlet port. Any high point in the pipe will be filled with air and thus prevent proper operation of the pump. When reducing the pipe to the inlet port diameter, use an eccentric reducer with the eccentric side down to avoid air pockets.

Correct

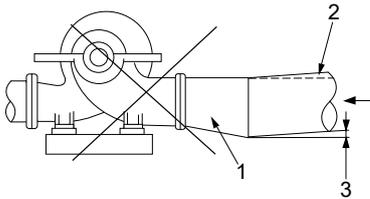


TM040098

Correctly mounted inlet pipe

| Pos. | Description |
|------|------------------------------|
| 1 | Eccentric reducer |
| 2 | Pipe sloping up towards pump |

Wrong



TM040097

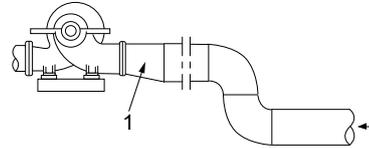
Inlet pipe resulting in air pockets

| Pos. | Description |
|------|--------------------------------|
| 1 | Eccentric reducer |
| 2 | Air pocket |
| 3 | Pipe sloping down towards pump |

Inlet pipe if the feed line comes in different horizontal planes

Avoid high spots, such as loops, as they will collect air and throttle the system or lead to uneven pumping.

Correct

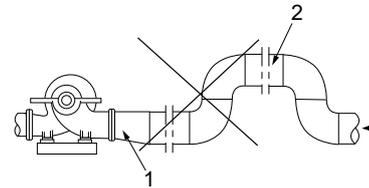


TM040095

Correctly mounted inlet pipe

| Pos. | Description |
|------|-------------------|
| 1 | Eccentric reducer |

Wrong

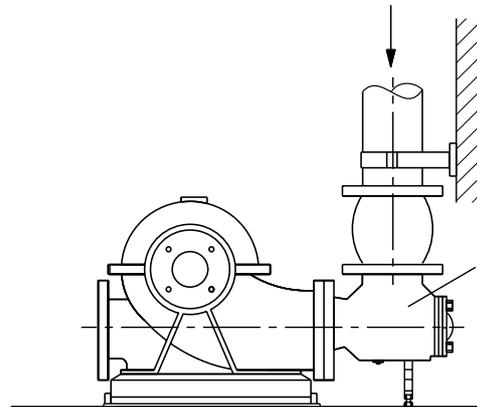


TM040094

Inlet pipe resulting in air pockets

| Pos. | Description |
|------|-------------------|
| 1 | Eccentric reducer |
| 2 | Air pocket |

Installations with vertical inlet pipe in confined space



TM040096

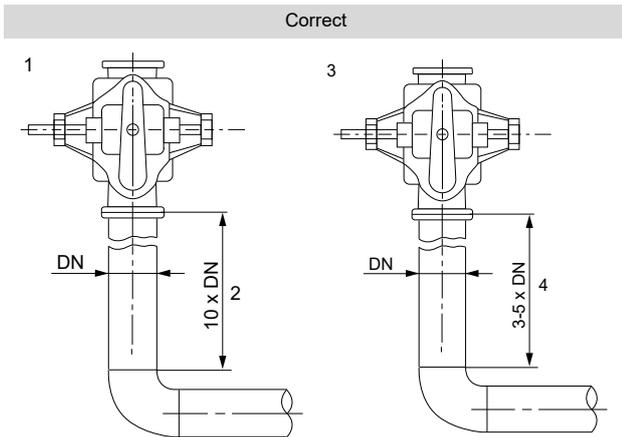
Inlet diffuser (1) in the inlet pipe

Inlet pipe with a horizontal elbow in the feed line

Make sure that the liquid flow is evenly distributed to both sides of the double-suction impeller.

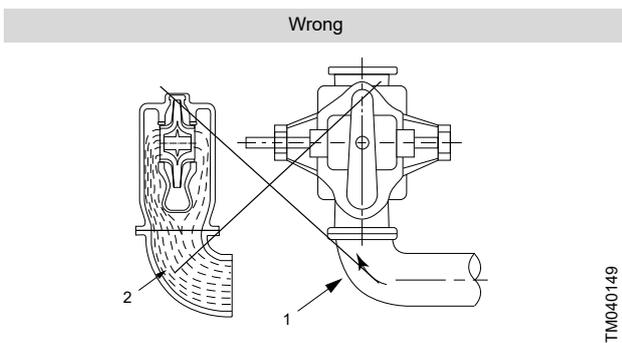
There is always an uneven, turbulent flow through an elbow. See figure below. If you install an elbow in the inlet pipe near the pump in a position other than vertical, more liquid will enter one side of the impeller than the other.

This will result in heavy, unbalanced thrust loads overheating the bearings, causing rapid wear and reducing the hydraulic performance.



Recommended inlet pipe installation with a length of straight pipe between horizontal elbow and pump

| Pos. | Description |
|------|--------------------------------|
| 1 | Open system |
| 2 | ≥ 10 x DN plus expansion joint |
| 3 | Closed system |
| 4 | 3-5 x DN plus expansion joint |



Unbalanced loading of a double-suction impeller due to uneven flow through a horizontal elbow close to the pump

| Pos. | Description |
|------|--|
| 1 | Uneven flow |
| 2 | Water pressure increases here causing a greater flow to one side of the impeller than to the other |

Valves in inlet pipes

If the pump is operating under static suction lift conditions, install a non-return valve in the inlet pipe to avoid having to prime the pump each time it is started. The non-return valve must be of the flap type or a footvalve with a minimum of pressure loss.

Outlet pipes

The outlet pipe is usually preceded by a non-return valve and an outlet isolating or throttle valve. The non-return valve protects the pump against excessive back-pressure and reverse rotation of the pump and prevents back flow through the pump in case of operational stop or failure of the motor.

In order to minimise friction losses and hydraulic noise in the pipes, flow velocities must not exceed 3 m/s (9 ft/sec) in the outlet pipe (port).

On long horizontal runs, it is desirable to keep the pipes as level as possible.

Avoid high spots, such as loops, as they will collect air and throttle the system or lead to uneven pumping.

Auxiliary pipes

1. Drains

Install drain pipes from pump casing and stuffing boxes to a convenient disposal point.

2. Pumps fitted with stuffing boxes

When inlet pressure is below ambient pressure, supply the stuffing boxes with liquid to provide lubrication and prevent the ingress of air. This is normally achieved via a flushing pipe from the pump outlet side to the stuffing box. You may fit a control valve or orifice plate in the flushing pipe to control the pressure to the packing gland/stuffing box.

If the pumped liquid is dirty and cannot be used for flushing the seals, we recommend a separate clean, compatible liquid supply to the stuffing box at 1 bar (15 psi) above the inlet pressure.

3. Pumps fitted with mechanical seals

Seals requiring re-circulation will normally be provided with a flushing pipe from the pump casing.

Note: When pumping hot liquids, we recommend that the supply of any external flushing or cooling liquid is continued after stopping the pump. This must be done to avoid seal damage.

TM040149

9. Selection of product

Pump size

Selection of pump size must be based on the following data:

- required flow rate and pressure
- pressure loss as a result of height differences (geometric lifting height)
- friction loss in the pipes (pipes, bends, valves, etc.)
- best efficiency at the estimated duty point.

Efficiency

If you expect the pump to always operate in the same duty point, select a pump which is operating in a duty point corresponding to the best efficiency of the pump.

In case of varying consumption, select a pump whose best efficiency falls within the duty range covering the greater part of the duty time.

Material

The material variant must be selected on the basis of the liquid to be pumped.

Motor size

The selection of motor size must be based on these parameters:

- flow rate margin, the maximum required flow rate in your application
- motor safety margin.

A selection has to be made for both parameters.

Parameter 1 - flow rate margin in your application

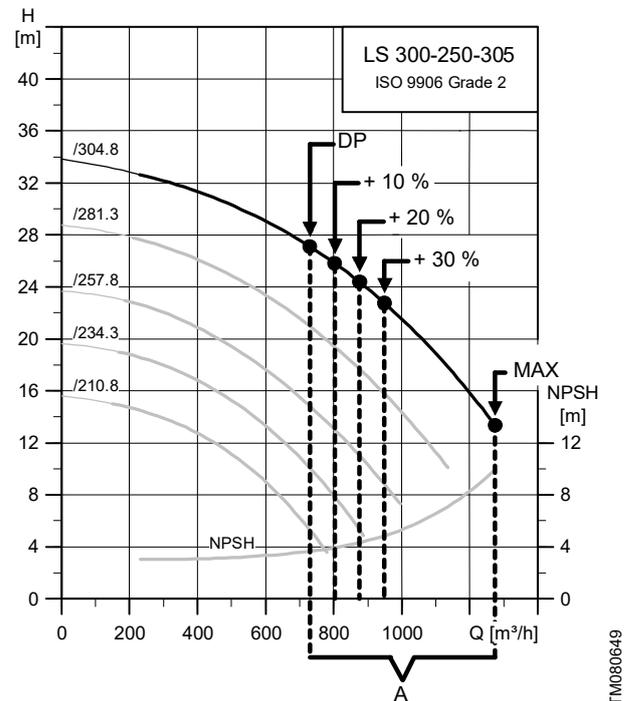
Understanding the operating conditions under which your pump will run is important to ensure long life and trouble-free operation of both pump and motor. The more specific these parameters are understood, the more refined and specific your motor selection can be.

If you intend to run the pump in one specific duty point, the power absorbed in this point (P2) could in theory be your motor's rated power. However, because of the uncertainties in system calculations or the addition of duty conditions around the primary duty point, we recommend that you have a safety margin for P2 power.

To accomplish this, we recommend the following method for motor selection.

1. Select one of the following flow rate margins for your pump:
 - Duty point to the end of the actual curve (default in CAPS)
 - Duty point + 30 %
 - Duty point + 20 %
 - Duty point + 10 %.

Flow rate margin

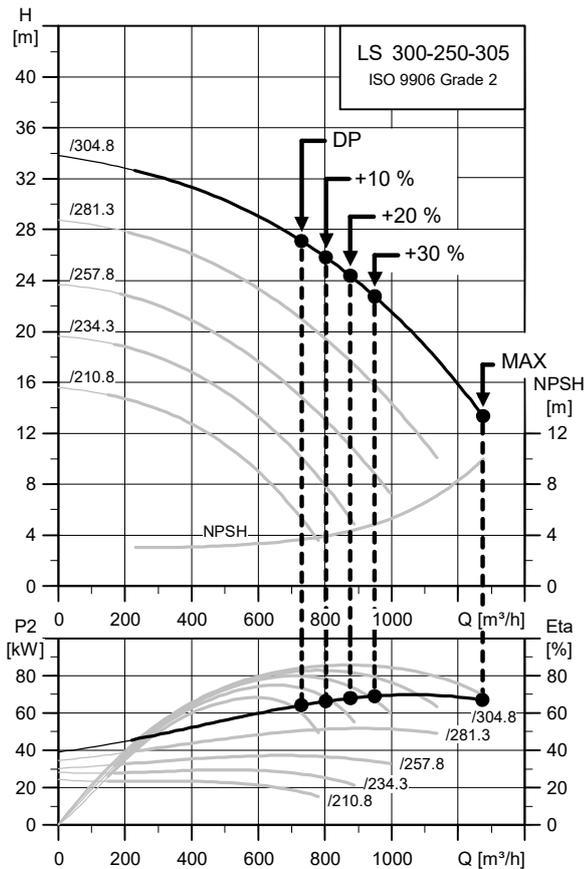


Selection of a flow rate margin on the basis of conditions around the primary duty point and uncertainties in system calculations

- A: Flow rate margins
- DP: Duty point
- MAX: Max. flow rate margin

2. Establish P2 for the selected flow rate margin.

Establishing P2

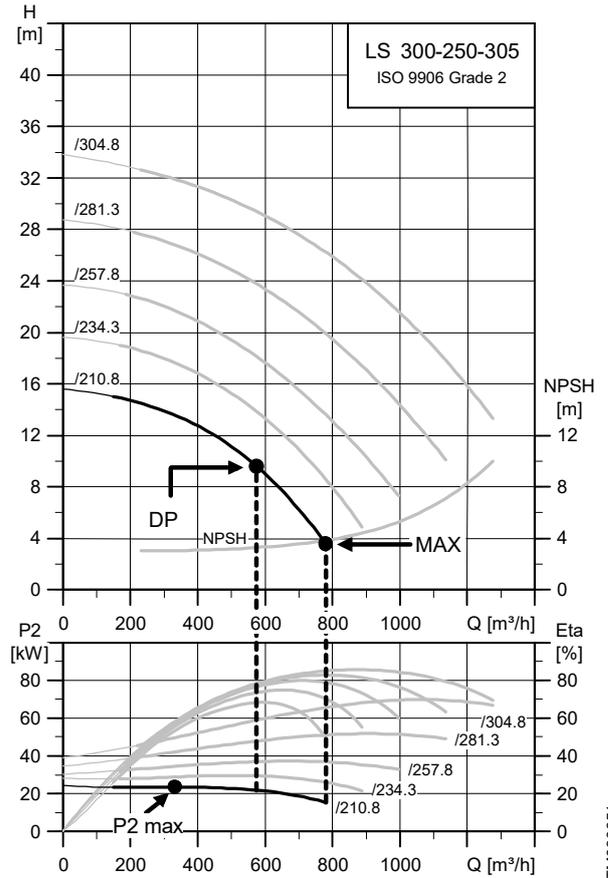


Establishing P2 for a selected flow rate margin of 30 %

- DP: Duty point
- MAX: Max. flow rate margin

In some cases, however, the input power actually decreases as the flow rate increases. It will thus be found at some other point within this flow range. This is typically the case when the impeller is trimmed to the smallest diameter.

Decrease of P2 with increase of flow rate



Establishing the maximum P2 when P2 decreases as the flow rate increases

- DP: Duty point
- MAX: Max. flow rate margin

Parameter 2 - motor safety margin

As with any system, where uncertainties and tolerances exist, the motor safety margin takes the following into account:

- The actual head is at the high end of the tolerance described in ISO 9906. This will increase the required P2.
- Pump efficiency is at the low end of the tolerance described in ISO 9906. This will increase the required P2.
- Motor efficiency is at the low end.

To establish the motor safety margin, select method 1 or alternatively method 2:

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Method 1

Add a safety margin as outlined in ISO 5199 to the maximum P2 found when determining parameter 1. (Grundfos recommends the addition of a safety margin in accordance with this standard; default in Grundfos Product Center.)

Safety margins according to ISO 5199

| Required pump power up to [kW] | Motor power P2 [kW] |
|--------------------------------|---------------------|
| 568 | 630 |
| 505 | 560 |
| 450 | 500 |
| 405 | 450 |
| 360 | 400 |
| 320 | 355 |
| 284 | 315 |
| 225 | 250 |
| 180 | 200 |
| 144 | 160 |
| 119 | 132 |
| 99 | 110 |
| 81 | 90 |
| 68 | 75 |
| 49 | 55 |
| 40 | 45 |
| 32.5 | 37 |
| 26 | 30 |
| 19 | 22 |
| 15.9 | 18.5 |
| 12.8 | 15 |
| 9.1 | 11 |
| 6.1 | 7.5 |
| 4.3 | 5.5 |
| 3.2 | 4 |
| 2.3 | 3 |
| 1.7 | 2.2 |
| 1.1 | 1.5 |

Method 2

Add a 5 % safety margin to the maximum P2 found when determining parameter 1. If not specified by the customer, the motor size is determined in accordance with the Grundfos Product Center defaults listed above. This means a motor which covers the full performance range and with a motor safety margin according to ISO 5199.

Pumped liquids

We recommend LS pumps for thin, clean and non-aggressive, non-explosive liquids, not containing solid particles or fibres. The liquid must not attack the pump materials chemically or mechanically.

The mechanical shaft seal must be suitable for the liquid.

Water in heating and ventilating systems often contains additives to prevent negative effects such as system corrosion or calcareous deposits. If you want to use the pump for such liquids and if the temperature is above 80 °C, use special shaft seals to avoid crystallisation/precipitation between the seal faces.

Liquid density and viscosity

If you pump liquids with a density and/or viscosity higher than that of water, use motors with correspondingly higher outputs.

The effect of high density on centrifugal pump performance

A high-density liquid only affects the power consumption of a centrifugal pump:

- The head, flow rate and pump efficiency will remain unchanged.
- The power consumption will increase at a ratio corresponding to the increase in density. A liquid with a specific gravity of 1.2 will thus require a 20 % larger power input.
- An oversize motor will often be required.

Grundfos Product Center can help you select the right pump for liquids with a density different from that of water.

The effect of high viscosity on centrifugal pump performance

A high-viscosity liquid affects a centrifugal pump in several ways:

- The power consumption will be increased, i.e. a larger motor is required.
- Head, flow rate and pump efficiency will be reduced.

Grundfos Product Center can help you select the right pump for liquids with a viscosity different from that of water.

10. Performance tests

The requested duty point for every split-case pump is tested according to ISO 9906, Grade 2B, and without certification, and no test report is supplied with the pump.

In case of pumps ordered on the basis of impeller diameter only (no requested duty point), the pump will be tested at the best efficiency point.

The primary duty point is guaranteed by a certified performance test. Additional point(s), on request, are offered for reference only. A testing certificate has to be ordered separately.

Certificates

Certificates have to be confirmed for every order and are available on request as follows:

- certificate of compliance with the order (EN 10204 2.1)
- pump test sheet.

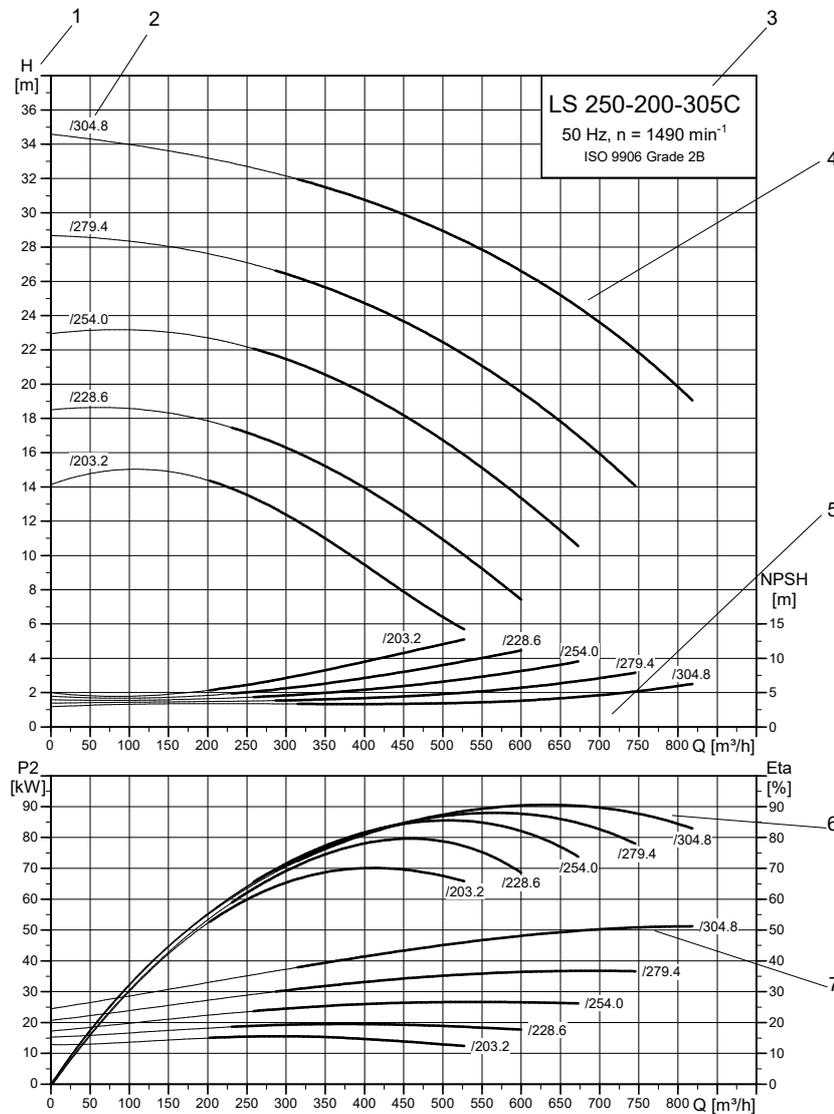
Witness test

When the pumps are being tested or are tested with a certification, it is possible for the customer to witness the testing procedure according to ISO 9906.

If the customer wants to witness the testing of the pump performance, place this request on the order.

11. Introduction to performance curves and technical data

How to read the curve charts



TM079759

| Pos. | Description |
|------|--|
| 1 | Pump type and speed |
| 2 | Size of impeller |
| 3 | Total pump head $H = H_{total}$ |
| 4 | QH curve for the individual pump. The bold curve indicates the recommended performance range |
| 5 | The NPSH curves ⁶⁾ . When sizing the pumps, add a safety margin of at least 0.5 m |
| 6 | The eta curves show the efficiency of the pumps shown |
| 7 | The power curves indicate pump input power [P_2] for the pumps shown |

⁶⁾ For NPSH of other impellers, please contact Grundfos.

Curve conditions

The guidelines below apply to the curves shown in the performance charts in sections LS 65-50-241 to LS 250-200-575x2.

- Tolerances according to ISO 9906, Grade 2B.
- The curves show pump performance with different impeller diameters at the nominal speed.
- The **bold** part of the curves show the **recommended** operating range.
- Do not operate the pump along the thin parts of the curves. If your duty point lies here, you must select a smaller or larger pump type.
- The curves apply to the pumping of airless water at a temperature of 20 °C and a kinematic viscosity of 1 mm²/s (1 cSt).
- ETA: The lines show values of the hydraulic efficiency of the pump for the different impeller diameters.
- NPSH: The curves show average values measured under the same conditions as the performance curves. When sizing the pump, add a safety margin of at least 0.5 m.
- In case of densities other than 1000 kg/m³, the outlet pressure is proportional to the density.
- When pumping liquids with a density higher than 1000 kg/m³, motors with correspondingly higher outputs must be used.

Calculation of total head

The total pump head consists of the height difference between the measuring points + the differential head + the dynamic head.

$$H_{\text{total}} = H_{\text{geo}} + H_{\text{stat}} + H_{\text{dyn}}$$

| | |
|-------------------|--|
| H_{geo} | Height difference between measuring points. |
| H_{stat} | Differential head between the inlet and the outlet side of the pump. |
| H_{dyn} | Calculated values based on the velocity of the pumped liquid on the inlet and the outlet side of the pump. |

Related information

[LS 65-50-241](#)

[LS 250-200-575x2](#)

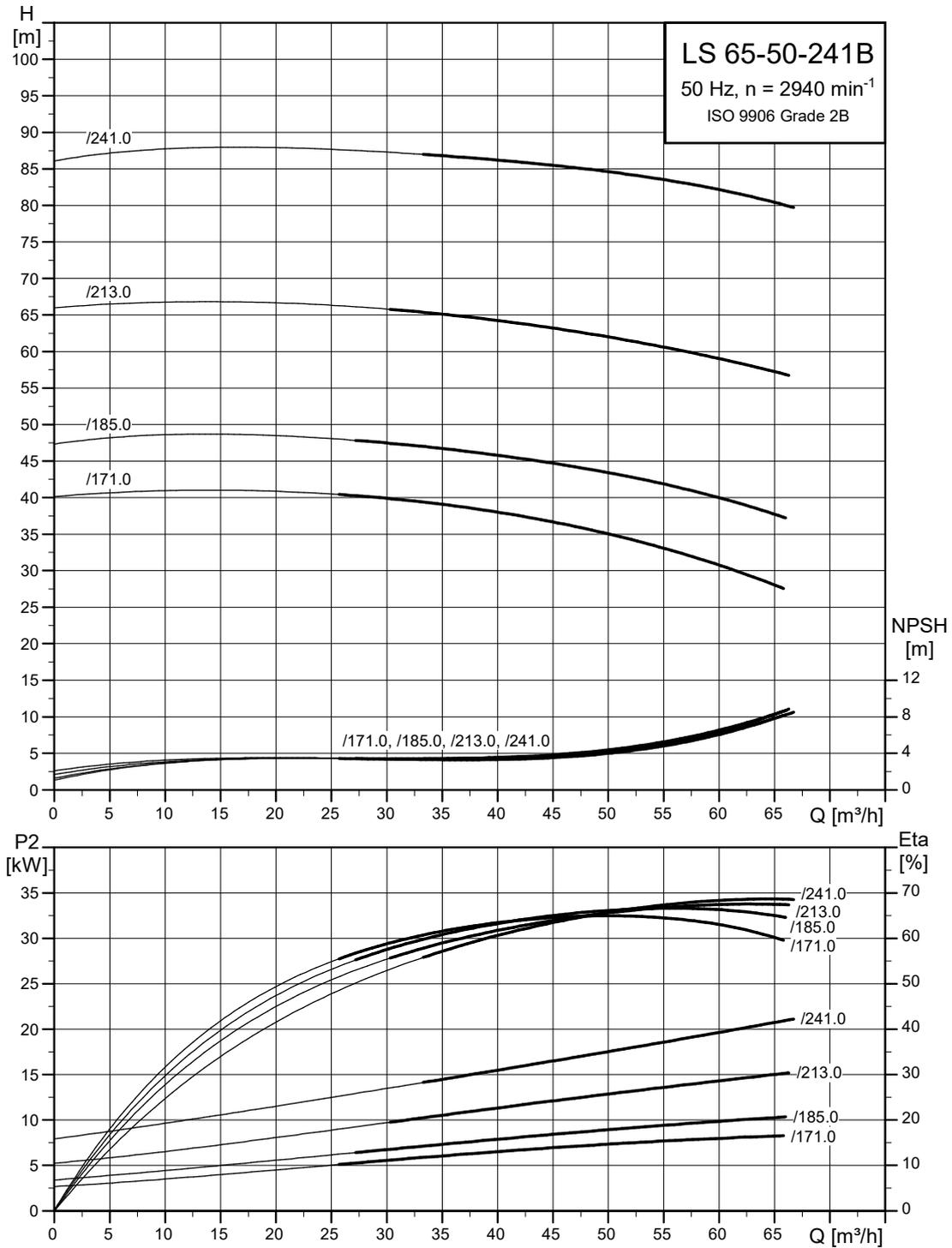
12. Performance curves and technical data

Overview

| 2-pole | 4-pole | 6-pole |
|---------------------------------------|--|--|
| Pump type | Pump type | Pump type |
| 12.2.1 LS 65-50-241 | 12.3.1 LS 65-50-241 | 12.4.1 LS 150-125-381 |
| 12.2.2 LS 100-80-241 | 12.3.2 LS 65-50-330 | 12.4.2 LS 200-150-305 |
| 12.2.3 LS 125-100-279 | 12.3.3 LS 100-80-241 | 12.4.3 LS 200-150-381 |
| 12.2.4 LS 125-100-305 | 12.3.4 LS 100-80-356 | 12.4.4 LS 250-200-305 |
| | 12.3.5 LS 125-100-279 | 12.4.5 LS 200-150-483 |
| | 12.3.6 LS 125-100-305 | 12.4.6 LS 200-150-508 |
| | 12.3.7 LS 125-100-381 | 12.4.7 LS 250-200-381 |
| | 12.3.8 LS 150-125-305 | 12.4.8 LS 300-200-489 |
| | 12.3.9 LS 150-125-381 | 12.4.9 LS 300-250-305 |
| | 12.3.10 LS 200-150-305 | 12.4.10 LS 300-250-381 |
| | 12.3.11 LS 200-150-381 | 12.4.11 LS 350-250-498 |
| | 12.3.12 LS 200-150-483 | 12.4.12 LS 350-250-630 |
| | 12.3.13 LS 200-150-508 | 12.4.13 LS 350-300-508 |
| | 12.3.14 LS 250-200-305 | 12.4.14 LS 450-350-397 |
| | 12.3.15 LS 250-200-381 | 12.4.15 LS 200-150-475x2 |
| | 12.3.16 LS 300-200-489 | 12.4.16 LS 250-200-575x2 |
| | 12.3.17 LS 300-250-305 | |
| | 12.3.18 LS 300-250-381 | |
| | 12.3.19 LS 350-250-498 | |
| | 12.3.20 LS 350-250-630 | |
| | 12.3.21 LS 450-350-397 | |
| | 12.3.22 LS 125-100-370x2 | |
| | 12.3.23 LS 150-125-415x2 | |
| | 12.3.24 LS 200-150-475x2 | |
| | 12.3.25 LS 250-200-575x2 | |

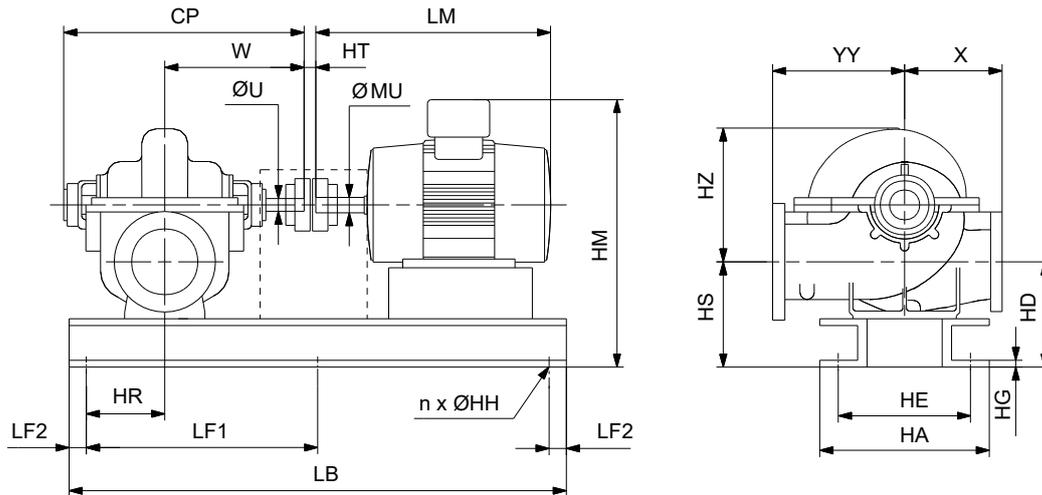
2-pole

LS 65-50-241



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LS 65-50-241 dimensional sketches



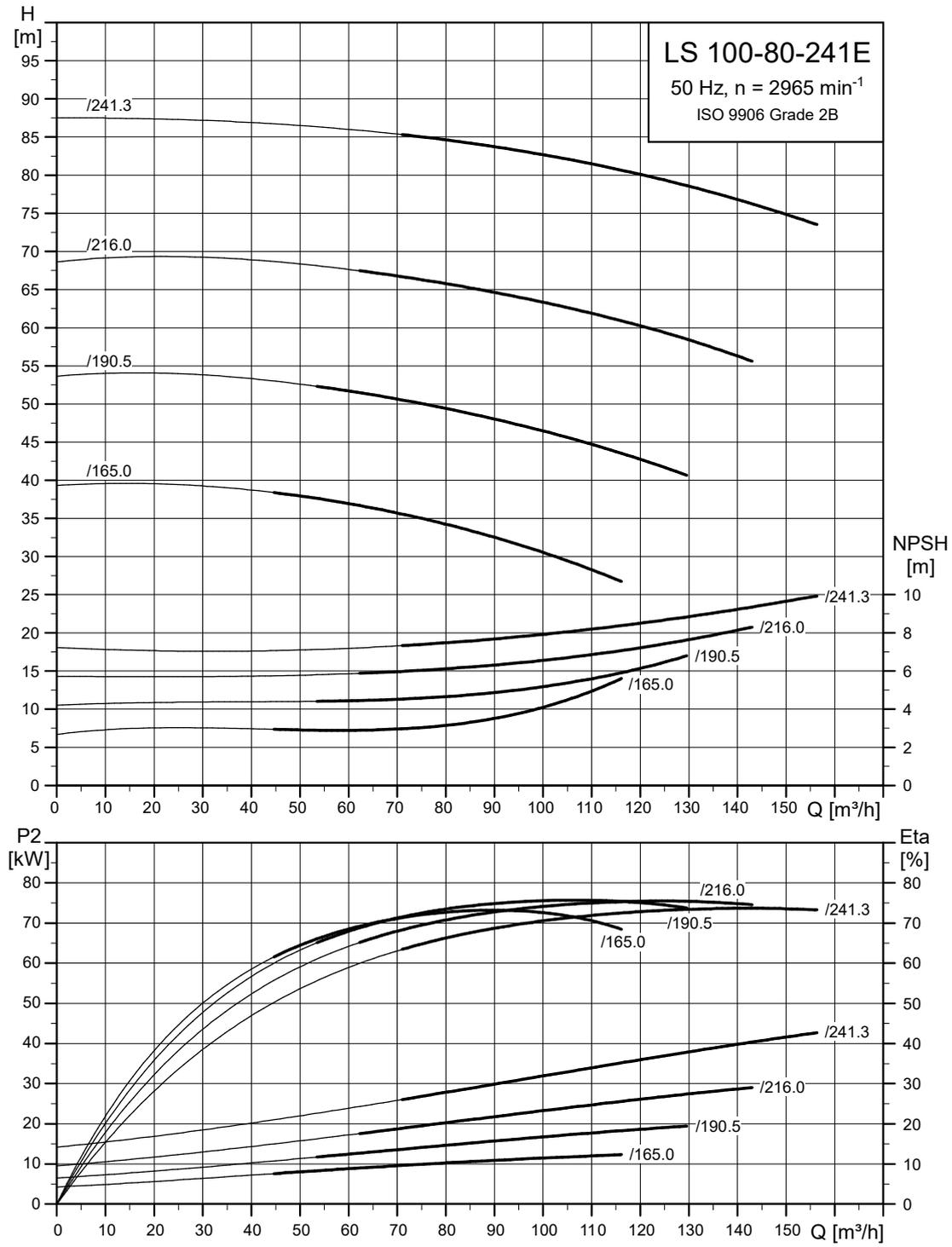
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LS 65-50-241 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | | Motor dimensions [mm] | | | Distance between shaft ends [mm] | |
|---------|------------|---------|------|----------------------|--------------|-----|----|-----|-----|-----|-----|-----------------------|-----|-----|----------------------------------|----|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 11 | 160MB | MG | 2 | 510 | 545 | 305 | 24 | 216 | 216 | 209 | 209 | 270 | 581 | 534 | 42 | 3 |
| 15 | 160MD | MG | 2 | 510 | 545 | 305 | 24 | 216 | 216 | 209 | 209 | 270 | 581 | 534 | 42 | 3 |
| 18.5 | 160LB | MG | 2 | 510 | 545 | 305 | 24 | 216 | 216 | 209 | 209 | 270 | 625 | 534 | 42 | 3 |
| 22 | 180MB | MG | 2 | 510 | 545 | 305 | 24 | 216 | 216 | 214 | 214 | 270 | 651 | 589 | 48 | 4 |
| 30 | 200L | Siemens | 2 | 510 | 545 | 305 | 24 | 216 | 216 | 234 | 234 | 270 | 769 | 638 | 55 | 4 |
| 37 | 200L | Siemens | 2 | 510 | 545 | 305 | 24 | 216 | 216 | 234 | 234 | 270 | 769 | 638 | 55 | 4 |
| 45 | 225M | Siemens | 2 | 510 | 545 | 305 | 24 | 216 | 216 | 259 | 259 | 270 | 819 | 686 | 55 | 4 |
| 11 | 160MA | MMG-G | 2 | 510 | 545 | 305 | 24 | 216 | 216 | 209 | 209 | 270 | 608 | 539 | 42 | 3 |
| 15 | 160MB | MMG-G | 2 | 510 | 545 | 305 | 24 | 216 | 216 | 209 | 209 | 270 | 608 | 539 | 42 | 3 |
| 18.5 | 160L | MMG-G | 2 | 510 | 545 | 305 | 24 | 216 | 216 | 209 | 209 | 270 | 652 | 539 | 42 | 3 |
| 22 | 180M | MMG-G | 2 | 510 | 545 | 305 | 24 | 216 | 216 | 214 | 214 | 270 | 672 | 570 | 48 | 4 |
| 30 | 200LA | MMG-G | 2 | 510 | 545 | 305 | 24 | 216 | 216 | 234 | 234 | 270 | 770 | 655 | 55 | 4 |
| 37 | 200LB | MMG-G | 2 | 510 | 545 | 305 | 24 | 216 | 216 | 234 | 234 | 270 | 770 | 655 | 55 | 4 |
| 45 | 225MA | MMG-G | 2 | 510 | 545 | 305 | 24 | 216 | 216 | 259 | 259 | 270 | 811 | 706 | 55 | 4 |

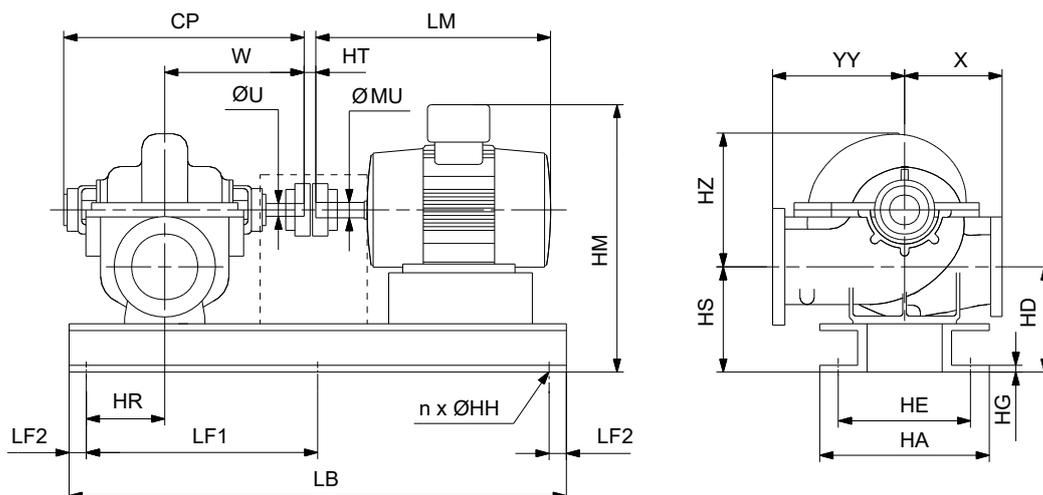
| Motor | | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] |
|---------|------------|---------|------|----------------------------|-----|----|-----|-----|-----|-----|---|-----|-----------------|--------------|-----------|------------------|-------|-------|----------------------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | |
| | | | | | | | | | | | | | | | | | | | 11 |
| 15 | 160MD | MG | 2 | 1120 | 200 | 10 | - | 390 | 360 | 8.5 | 4 | 18 | - | 30 | 9 | 73 | 98 | 234 | 0.54 |
| 18.5 | 160LB | MG | 2 | 1120 | 200 | 10 | - | 390 | 360 | 8.5 | 4 | 18 | - | 30 | 69 | 73 | 111 | 247 | 0.57 |
| 22 | 180MB | MG | 2 | 1180 | 200 | 18 | 390 | 420 | 376 | 8.5 | 6 | 18 | - | 22 | 30 | 73 | 126 | 266 | 0.62 |
| 30 | 200L | Siemens | 2 | 1230 | 200 | 20 | 415 | 450 | 406 | 8.5 | 6 | 18 | - | 20 | 35 | 73 | 185 | 328 | 0.69 |
| 37 | 200L | Siemens | 2 | 1230 | 200 | 20 | 415 | 450 | 406 | 8.5 | 6 | 18 | - | 20 | 35 | 73 | 214 | 357 | 0.69 |
| 45 | 225M | Siemens | 2 | 1250 | 200 | 20 | 425 | 480 | 436 | 8.5 | 6 | 18 | - | 20 | 112 | 73 | 330 | 477 | 0.79 |
| 11 | 160MA | MMG-G | 2 | 1120 | 200 | 10 | - | 390 | 360 | 8.5 | 4 | 18 | - | 30 | 6 | 73 | 130 | 203 | 0.830 |
| 15 | 160MB | MMG-G | 2 | 1120 | 200 | 10 | - | 390 | 360 | 8.5 | 4 | 18 | - | 30 | 6 | 73 | 130 | 203 | 0.830 |
| 18.5 | 160L | MMG-G | 2 | 1120 | 200 | 10 | - | 390 | 360 | 8.5 | 4 | 18 | - | 30 | 50 | 73 | 140 | 213 | 0.859 |
| 22 | 180M | MMG-G | 2 | 1180 | 200 | 18 | 390 | 420 | 376 | 8.5 | 6 | 18 | - | 22 | 19 | 73 | 180 | 253 | 0.908 |
| 30 | 200LA | MMG-G | 2 | 1230 | 200 | 20 | 415 | 450 | 406 | 8.5 | 6 | 18 | - | 20 | 69 | 73 | 265 | 338 | 1.092 |
| 37 | 200LB | MMG-G | 2 | 1230 | 200 | 20 | 415 | 450 | 406 | 8.5 | 6 | 18 | - | 20 | 69 | 73 | 300 | 373 | 1.092 |
| 45 | 225MA | MMG-G | 2 | 1250 | 200 | 20 | 425 | 480 | 436 | 8.5 | 6 | 18 | - | 20 | 90 | 73 | 340 | 413 | 1.227 |

LS 100-80-241



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LS 100-80-241 dimensional sketches



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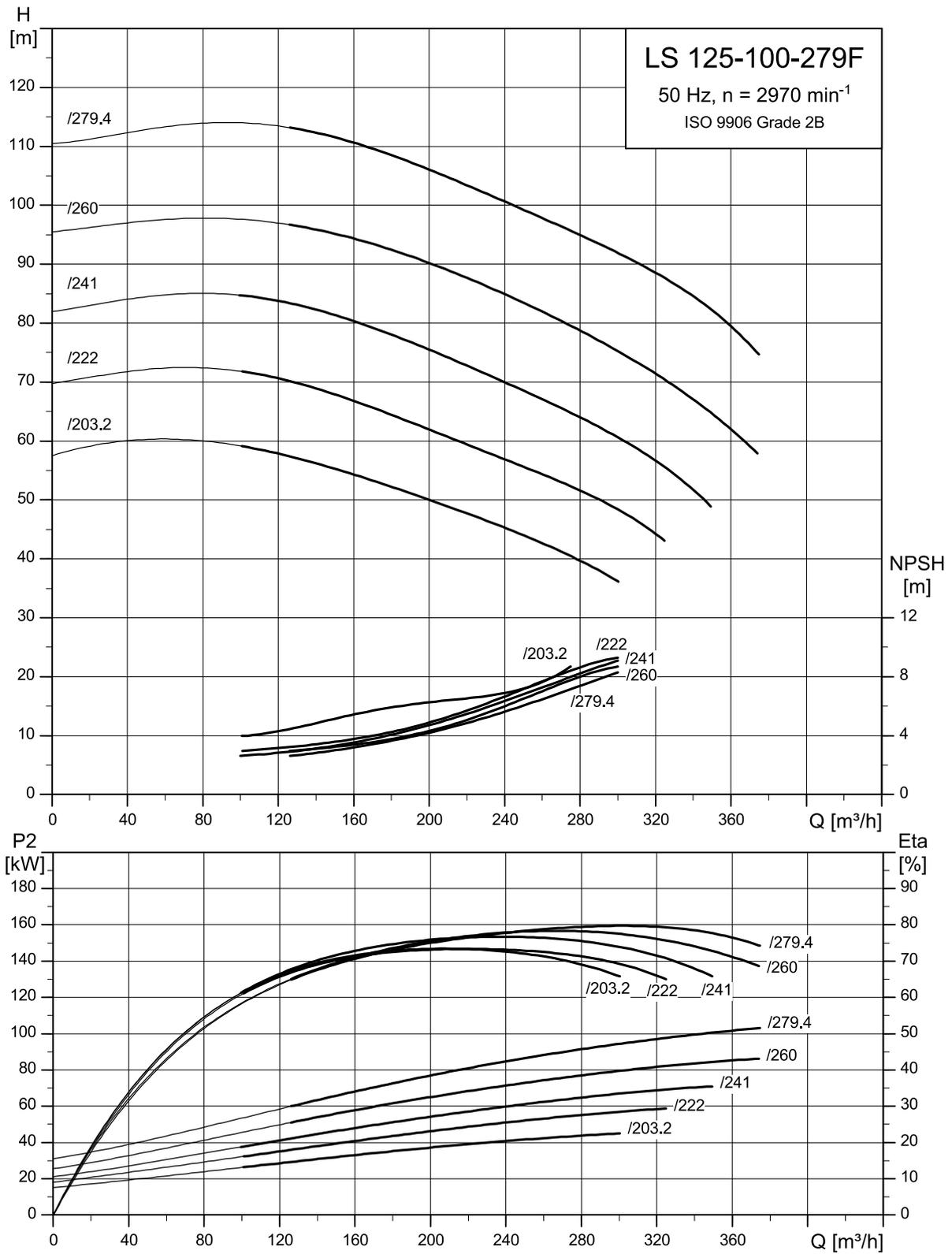
LS 100-80-241 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | | Motor dimensions [mm] | | | Distance between shaft ends [mm] | |
|---------|------------|---------|------|----------------------|--------------|-----|----|-----|-----|-----|-----|-----------------------|--------|-----|----------------------------------|----|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 15 | 160MD | MG | 2 | 510 | 545 | 305 | 24 | 279 | 279 | 222 | 222 | 290 | 581 | 560 | 42 | 3 |
| 18.5 | 160LB | MG | 2 | 510 | 545 | 305 | 24 | 279 | 279 | 222 | 222 | 290 | 625 | 560 | 42 | 3 |
| 22 | 180MB | MG | 2 | 510 | 545 | 305 | 24 | 279 | 279 | 222 | 222 | 290 | 651 | 609 | 48 | 4 |
| 30 | 200L | Siemens | 2 | 510 | 545 | 305 | 24 | 279 | 279 | 222 | 222 | 290 | 769 | 638 | 55 | 4 |
| 37 | 200L | Siemens | 2 | 510 | 545 | 305 | 24 | 279 | 279 | 222 | 222 | 290 | 769 | 638 | 55 | 4 |
| 45 | 225M | Siemens | 2 | 510 | 545 | 305 | 24 | 279 | 279 | 246 | 246 | 290 | 819 | 686 | 55 | 4 |
| 55 | 250M | Siemens | 2 | 510 | 545 | 305 | 24 | 279 | 279 | 271 | 271 | 290 | 887 | 783 | 60 | 4 |
| 75 | 280S | Siemens | 2 | 510 | 545 | 305 | 24 | 279 | 279 | 316 | 316 | 290 | 1014 | 851 | 65 | 4 |
| 15 | 160MB | MMG-G | 2 | 510 | 545 | 305 | 24 | 279 | 279 | 222 | 222 | 290 | 608 | 564 | 42 | 3 |
| 18.5 | 160L | MMG-G | 2 | 510 | 545 | 305 | 24 | 279 | 279 | 222 | 222 | 290 | 652 | 564 | 42 | 3 |
| 22 | 180M | MMG-G | 2 | 510 | 545 | 305 | 24 | 279 | 279 | 222 | 222 | 290 | 672 | 590 | 48 | 4 |
| 30 | 200LA | MMG-G | 2 | 510 | 545 | 305 | 24 | 279 | 279 | 222 | 222 | 290 | 770 | 655 | 55 | 4 |
| 37 | 200LB | MMG-G | 2 | 510 | 545 | 305 | 24 | 279 | 279 | 222 | 222 | 290 | 770 | 655 | 55 | 4 |
| 45 | 225MA | MMG-G | 2 | 510 | 545 | 305 | 24 | 279 | 279 | 247 | 247 | 290 | 811 | 706 | 55 | 4 |
| 55 | 250MA | MMG-G | 2 | 510 | 545 | 305 | 24 | 279 | 279 | 272 | 272 | 290 | 921 | 773 | 60 | 4 |
| 75 | 280SA | MMG-G | 2 | 510 | 545 | 305 | 24 | 279 | 279 | 317 | 317 | 290 | 1037.5 | 851 | 65 | 4 |

| Motor | | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | Net weights [kg] | | | Shipping volume [m³] | |
|---------|------------|---------|------|----------------------------|-----|----|-----|-----|-----|-----|---|-----|-----------------|--------------|------------------|------|-------|----------------------|-------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | |
| | | | | | | | | | | | | | | | | | | | |
| 15 | 160MD | MG | 2 | 1130 | 200 | 20 | 365 | 390 | 346 | 8.5 | 6 | 18 | - | 20 | 9 | 80 | 98 | 241 | 0.68 |
| 18.5 | 160LB | MG | 2 | 1130 | 200 | 20 | 365 | 390 | 346 | 8.5 | 6 | 18 | - | 20 | 69 | 80 | 111 | 254 | 0.71 |
| 22 | 180MB | MG | 2 | 1150 | 200 | 20 | 375 | 390 | 346 | 8.5 | 6 | 18 | - | 20 | 62 | 80 | 126 | 270 | 0.77 |
| 30 | 200L | Siemens | 2 | 1230 | 200 | 20 | - | 460 | 425 | 8.5 | 4 | 18 | - | 20 | 35 | 80 | 185 | 343 | 0.83 |
| 37 | 200L | Siemens | 2 | 1230 | 200 | 20 | - | 460 | 425 | 8.5 | 4 | 18 | - | 20 | 35 | 80 | 214 | 372 | 0.83 |
| 45 | 225M | Siemens | 2 | 1230 | 200 | 20 | 415 | 480 | 436 | 8.5 | 6 | 18 | - | 20 | 132 | 80 | 330 | 480 | 0.94 |
| 55 | 250M | Siemens | 2 | 1350 | 200 | 20 | 475 | 550 | 506 | 8.5 | 6 | 18 | - | 20 | 90 | 80 | 420 | 588 | 1.11 |
| 75 | 280S | Siemens | 2 | 1450 | 200 | 20 | 525 | 640 | 600 | 9 | 6 | 23 | - | 20 | 63 | 80 | 530 | 725 | 1.25 |
| 15 | 160M | MMG-G | 2 | 1130 | 200 | 20 | 365 | 390 | 346 | 8.5 | 6 | 18 | - | 20 | 6 | 80 | 130 | 210 | 1.008 |
| 18.5 | 160L | MMG-G | 2 | 1130 | 200 | 20 | 365 | 390 | 346 | 8.5 | 6 | 18 | - | 20 | 50 | 80 | 140 | 220 | 1.043 |
| 22 | 180MA | MMG-G | 2 | 1150 | 200 | 20 | 375 | 390 | 346 | 8.5 | 6 | 18 | - | 20 | 51 | 80 | 180 | 260 | 1.089 |
| 30 | 200LA | MMG-G | 2 | 1230 | 200 | 20 | - | 460 | 425 | 8.5 | 4 | 18 | - | 20 | 69 | 80 | 265 | 345 | 1.249 |

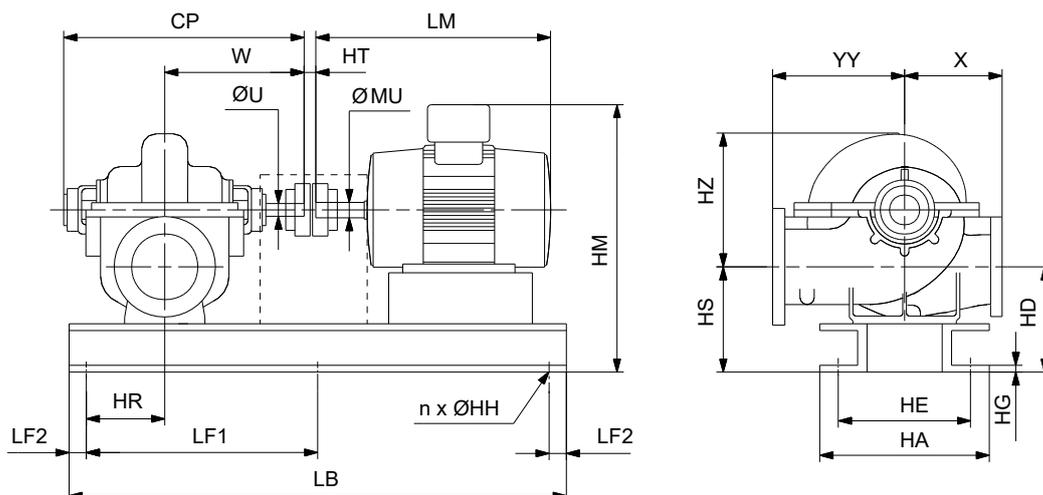
| P2 [kW] | Motor | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m ³] |
|------------|---------------|-------|------|-------------------------------|-----|----|-----|-----|-----|-----|---|-----|--------------------|-----------------|--------------|---------------------|-------|-------|---|
| | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | |
| 37 | 200LA | MMG-G | 2 | 1230 | 200 | 20 | - | 460 | 425 | 8.5 | 4 | 18 | - | 20 | 69 | 80 | 300 | 380 | 1.249 |
| 45 | 225MA | MMG-G | 2 | 1230 | 200 | 20 | 415 | 480 | 436 | 8.5 | 6 | 18 | - | 20 | 110 | 80 | 340 | 420 | 1.350 |
| 55 | 250SA | MMG-G | 2 | 1350 | 200 | 20 | 475 | 550 | 506 | 8.5 | 6 | 18 | - | 20 | 100 | 80 | 465 | 545 | 1.541 |
| 75 | 250MA | MMG-G | 2 | 1450 | 200 | 20 | 525 | 640 | 600 | 9 | 6 | 23 | - | 20 | 116 | 80 | 553 | 633 | 1.937 |

LS 125-100-279



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LS 125-100-279 dimensional sketches



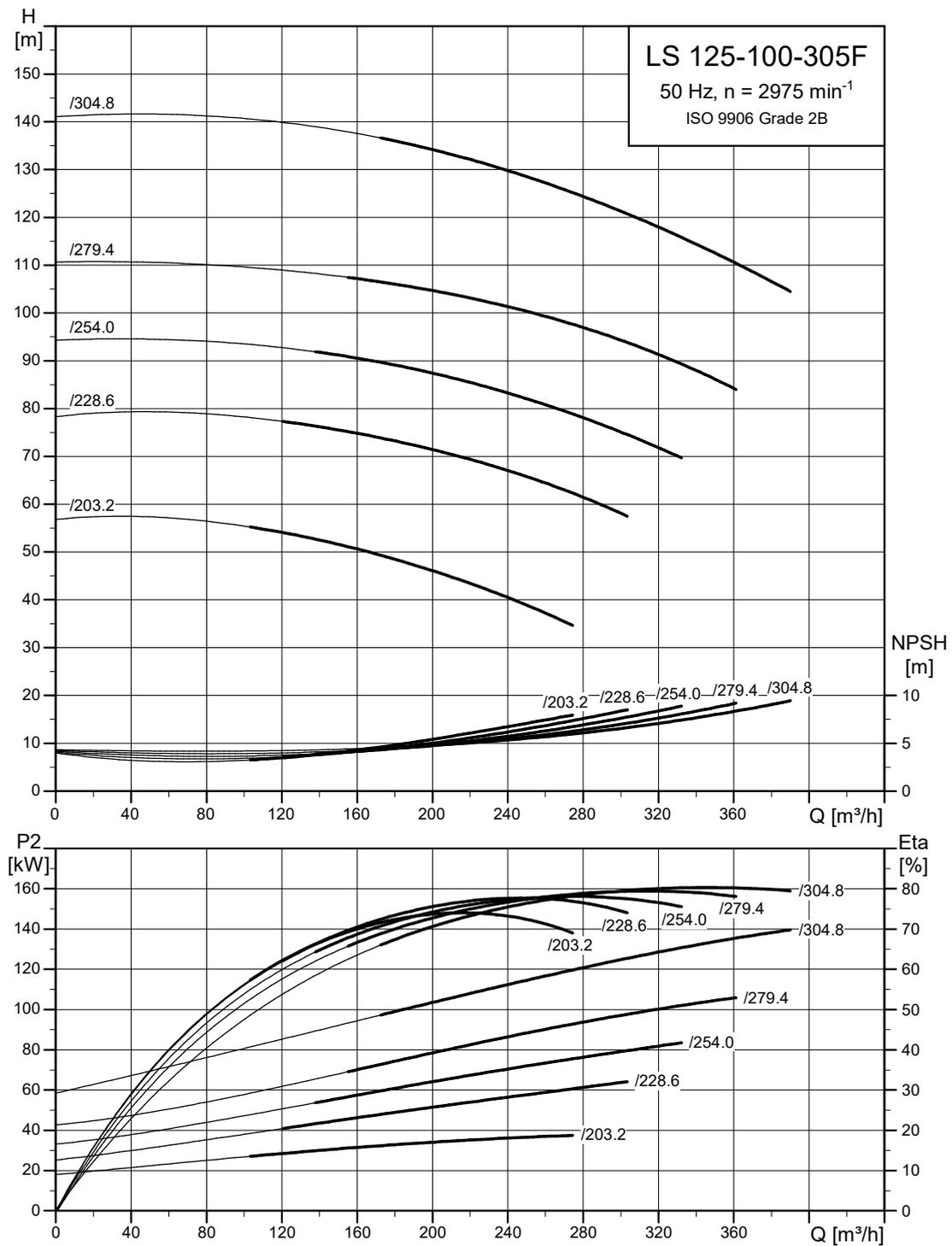
TM072172

LS 125-100-279 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | | Motor dimensions [mm] | | | Distance between shaft ends [mm] | |
|---------|------------|---------|------|----------------------|--------------|-----|----|-----|-----|-----|-----|-----------------------|--------|-----|----------------------------------|----|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 18.5 | 160LB | MG | 2 | 510 | 545 | 368 | 34 | 305 | 305 | 244 | 244 | 290 | 625 | 634 | 42 | 3 |
| 22 | 180MB | MG | 2 | 510 | 545 | 368 | 34 | 305 | 305 | 244 | 244 | 290 | 651 | 663 | 48 | 4 |
| 30 | 200L | Siemens | 2 | 510 | 545 | 368 | 34 | 305 | 305 | 244 | 244 | 290 | 769 | 692 | 55 | 4 |
| 37 | 200L | Siemens | 2 | 510 | 545 | 368 | 34 | 305 | 305 | 244 | 244 | 290 | 769 | 692 | 55 | 4 |
| 45 | 225M | Siemens | 2 | 510 | 545 | 368 | 34 | 305 | 305 | 244 | 244 | 290 | 819 | 715 | 55 | 4 |
| 55 | 250M | Siemens | 2 | 510 | 545 | 368 | 34 | 305 | 305 | 264 | 264 | 290 | 887 | 807 | 60 | 4 |
| 75 | 280S | Siemens | 2 | 510 | 545 | 368 | 34 | 305 | 305 | 290 | 290 | 290 | 1014 | 856 | 65 | 4 |
| 18.5 | 160L | MMG-G | 2 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 652 | 618 | 42 | 3 |
| 22 | 180M | MMG-G | 2 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 672 | 644 | 48 | 4 |
| 30 | 200LA | MMG-G | 2 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 770 | 709 | 55 | 4 |
| 37 | 200LB | MMG-G | 2 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 770 | 709 | 55 | 4 |
| 45 | 225MA | MMG-G | 2 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 811 | 735 | 55 | 4 |
| 55 | 250MA | MMG-G | 2 | 631 | 674 | 368 | 34 | 305 | 305 | 264 | 264 | 370 | 921 | 797 | 60 | 4 |
| 75 | 280SA | MMG-G | 2 | 631 | 674 | 368 | 34 | 305 | 305 | 290 | 290 | 370 | 1037.5 | 856 | 65 | 4 |
| 90 | 280MA | MMG-G | 2 | 631 | 674 | 368 | 34 | 305 | 305 | 290 | 290 | 370 | 1037.5 | 856 | 65 | 30 |

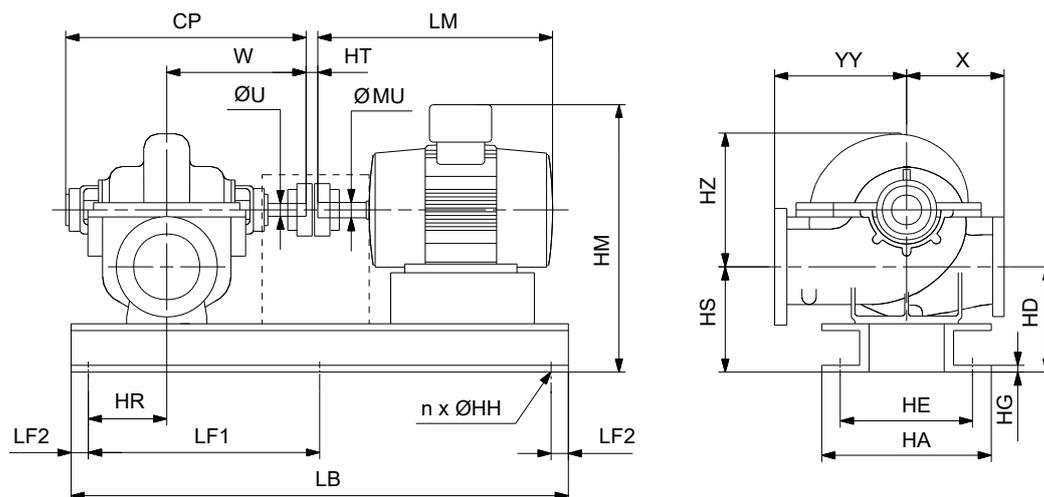
| Motor | | | | Base frame dimensions [mm] | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] | |
|---------|------------|---------|------|----------------------------|-----|----|-----|-----|-----|-----|---|---------------|-----------------|--------------|------------------|------|-------|----------------------|-------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | | Total |
| | | | | | | | | | | | | | | | | | | 18.5 | |
| 22 | 180MB | MG | 2 | 1280 | 200 | 50 | 440 | 390 | 346 | 8.5 | 6 | 18 | 13 | 56 | 28 | 164 | 185 | 422 | 0.99 |
| 30 | 200L | Siemens | 2 | 1320 | 200 | 51 | 460 | 435 | 394 | 8.5 | 6 | 23 | 13 | 56 | 41 | 164 | 214 | 461 | 1.04 |
| 37 | 200L | Siemens | 2 | 1320 | 200 | 51 | 460 | 435 | 394 | 8.5 | 6 | 23 | 13 | 56 | 41 | 164 | 330 | 577 | 1.06 |
| 45 | 225M | Siemens | 2 | 1350 | 200 | 51 | - | 485 | 446 | 8.5 | 4 | 23 | 13 | 56 | 108 | 164 | 420 | 659 | 1.20 |
| 55 | 250M | Siemens | 2 | 1450 | 200 | 51 | 525 | 560 | 526 | 9 | 6 | 23 | 13 | 56 | 86 | 164 | 530 | 799 | 1.39 |
| 75 | 280S | Siemens | 2 | 1550 | 200 | 51 | 575 | 610 | 570 | 9 | 6 | 23 | 13 | 56 | 59 | 164 | 615 | 891 | 1.44 |
| 18.5 | 160L | MMG-G | 2 | 1250 | 200 | 50 | 425 | 334 | 286 | 9 | 6 | 18 | 13 | 56 | 23 | 164 | 140 | 304 | 1.264 |
| 22 | 180M | MMG-G | 2 | 1280 | 200 | 50 | 440 | 390 | 346 | 8.5 | 6 | 18 | 13 | 56 | 14 | 164 | 180 | 344 | 1.317 |
| 30 | 200LA | MMG-G | 2 | 1320 | 200 | 51 | 460 | 435 | 394 | 8.5 | 6 | 23 | 13 | 56 | 72 | 164 | 265 | 429 | 1.498 |
| 37 | 200LB | MMG-G | 2 | 1320 | 200 | 51 | 460 | 435 | 394 | 8.5 | 6 | 23 | 13 | 56 | 72 | 164 | 300 | 464 | 1.498 |
| 45 | 225MA | MMG-G | 2 | 1350 | 200 | 51 | - | 485 | 446 | 8.5 | 4 | 23 | 13 | 56 | 83 | 164 | 340 | 504 | 1.576 |
| 55 | 250MA | MMG-G | 2 | 1450 | 200 | 51 | 525 | 560 | 526 | 9 | 6 | 23 | 13 | 56 | 93 | 164 | 465 | 629 | 1.780 |
| 75 | 280SA | MMG-G | 2 | 1550 | 200 | 51 | 575 | 610 | 570 | 9 | 6 | 23 | 13 | 56 | 110 | 164 | 553 | 717 | 2.000 |
| 90 | 280MA | MMG-G | 2 | 1550 | 200 | 47 | 575 | 600 | 550 | 8 | 6 | 18 | 16 | 59 | 133 | 164 | 620 | 784 | 2.029 |

LS 125-100-305



TM072631

LS 125-100-305 dimensional sketches



TM072172

LS 125-100-305 dimensions

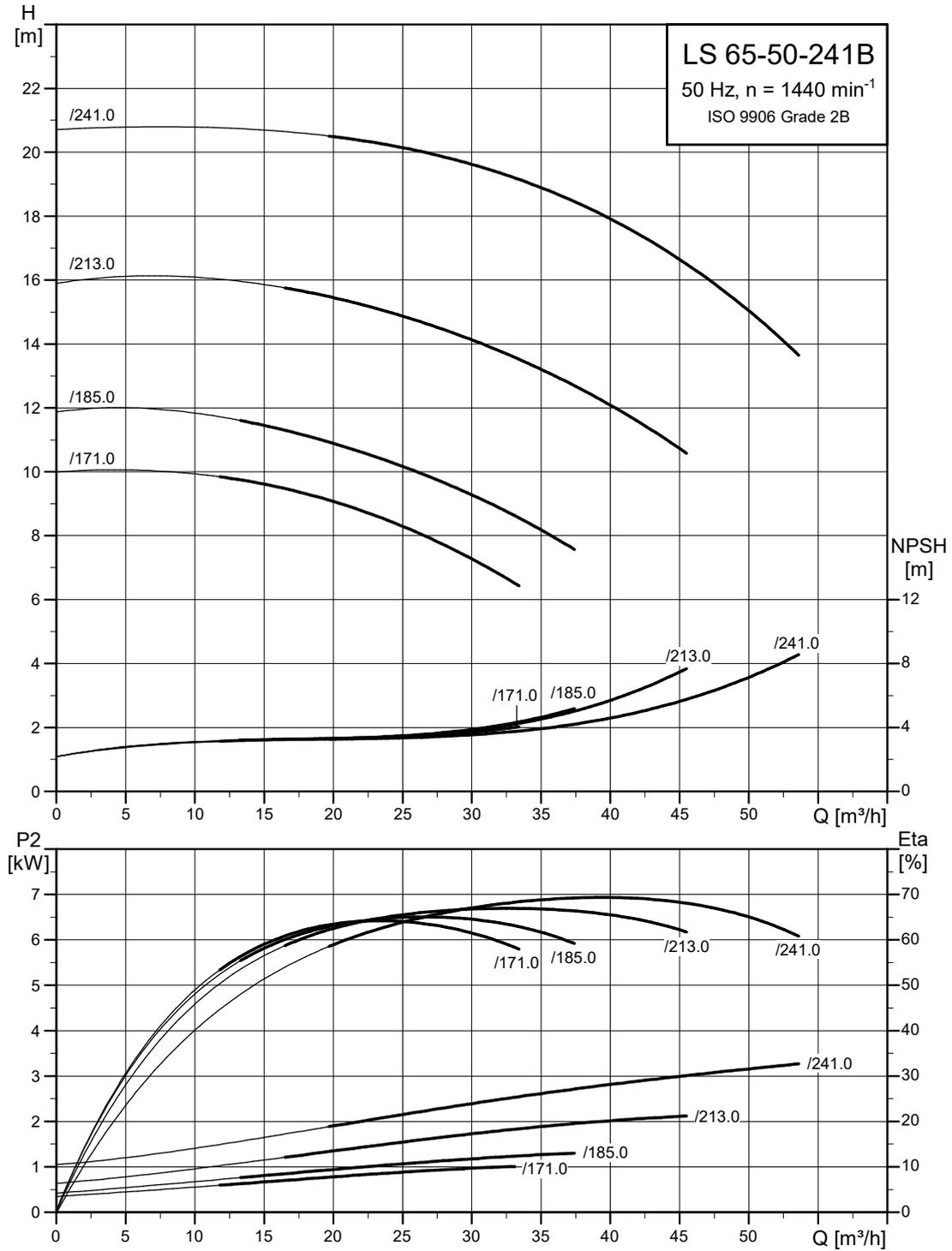
| Motor | | | | Pump dimensions [mm] | | | | | | | | | Motor dimensions [mm] | | | Distance between shaft ends [mm] |
|---------|------------|---------|------|----------------------|--------------|-----|----|-----|-----|-----|-----|-----|-----------------------|-----|-----|----------------------------------|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 30 | 200L | Siemens | 2 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 769 | 692 | 55 | 4 |
| 37 | 200L | Siemens | 2 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 769 | 692 | 55 | 4 |
| 45 | 225M | Siemens | 2 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 819 | 715 | 55 | 4 |
| 55 | 250M | Siemens | 2 | 631 | 674 | 368 | 34 | 305 | 305 | 264 | 264 | 370 | 887 | 807 | 60 | 4 |
| 75 | 280S | Siemens | 2 | 631 | 674 | 368 | 34 | 305 | 305 | 290 | 290 | 370 | 1014 | 856 | 65 | 4 |
| 90 | 280M | Siemens | 2 | 631 | 674 | 368 | 34 | 305 | 305 | 290 | 290 | 370 | 1014 | 856 | 65 | 4 |
| 110 | 315S | Siemens | 2 | 631 | 674 | 368 | 34 | 305 | 305 | 325 | 325 | 370 | 1097 | 994 | 65 | 4 |
| 132 | 315M | Siemens | 2 | 631 | 674 | 368 | 34 | 305 | 305 | 325 | 325 | 370 | 1187 | 994 | 65 | 4 |
| 160 | 315L | Siemens | 2 | 631 | 674 | 368 | 34 | 305 | 305 | 325 | 325 | 370 | 1187 | 994 | 65 | 4 |
| 30 | 200LA | MMG-G | 2 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 770 | 709 | 55 | 4 |
| 37 | 200LB | MMG-G | 2 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 770 | 709 | 55 | 4 |
| 45 | 225MA | MMG-G | 2 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 811 | 735 | 55 | 4 |
| 55 | 250MA | MMG-G | 2 | 631 | 674 | 368 | 34 | 305 | 305 | 264 | 264 | 370 | 921 | 797 | 60 | 4 |
| 75 | 280SA | MMG-G | 2 | 631 | 674 | 368 | 34 | 305 | 305 | 290 | 290 | 370 | 1037.5 | 856 | 65 | 4 |
| 90 | 280MA | MMG-G | 2 | 631 | 674 | 368 | 34 | 305 | 305 | 290 | 290 | 370 | 1037.5 | 856 | 65 | 4 |
| 110 | 315SA | MMG-G | 2 | 631 | 674 | 368 | 34 | 305 | 305 | 325 | 325 | 370 | 1216 | 986 | 65 | 4 |
| 132 | 315MA | MMG-G | 2 | 631 | 674 | 368 | 34 | 305 | 305 | 325 | 325 | 370 | 1266 | 986 | 65 | 4 |
| 160 | 315LA | MMG-G | 2 | 631 | 674 | 368 | 34 | 305 | 305 | 325 | 325 | 370 | 1366 | 986 | 65 | 4 |

| Motor | | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] |
|---------|------------|---------|------|----------------------------|-----|------|-----|-----|-----|-----|---|-----|-----------------|--------------|-----------|------------------|-------|-------|----------------------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | |
| | | | | | | | | | | | | | | | | | | | 30 |
| 37 | 200L | Siemens | 2 | 1320 | 200 | 51 | 460 | 435 | 394 | 8.5 | 6 | 23 | 13 | 56 | 41 | 164 | 214 | 461 | 1.04 |
| 45 | 225M | Siemens | 2 | 1350 | 200 | 51 | - | 485 | 446 | 8.5 | 4 | 23 | 13 | 56 | 108 | 164 | 330 | 569 | 1.13 |
| 55 | 250M | Siemens | 2 | 1450 | 200 | 51 | 525 | 560 | 526 | 9 | 6 | 23 | 13 | 56 | 86 | 164 | 420 | 689 | 1.32 |
| 75 | 280S | Siemens | 2 | 1550 | 200 | 51 | 575 | 610 | 570 | 9 | 6 | 23 | 13 | 56 | 59 | 164 | 530 | 806 | 1.44 |
| 90 | 280M | Siemens | 2 | 1550 | 200 | 51 | 575 | 610 | 570 | 9 | 6 | 23 | 13 | 56 | 169 | 164 | 615 | 891 | 1.53 |
| 110 | 315S | Siemens | 2 | 1600 | 200 | 50.5 | 600 | 650 | 600 | 9 | 6 | 23 | 13 | 56 | 99 | 164 | 840 | 1124 | 2.49 |
| 132 | 315M | Siemens | 2 | 1600 | 200 | 50.5 | 600 | 650 | 600 | 9 | 6 | 23 | 13 | 56 | 264 | 164 | 900 | 1184 | 2.75 |
| 160 | 315L | Siemens | 2 | 1600 | 200 | 50.5 | 600 | 650 | 600 | 9 | 6 | 23 | 13 | 56 | 264 | 164 | 980 | 1264 | 2.82 |
| 30 | 200LA | MMG-G | 2 | 1320 | 200 | 51 | 460 | 435 | 394 | 8.5 | 6 | 23 | 13 | 56 | 72 | 164 | 265 | 429 | 1.498 |
| 37 | 200LB | MMG-G | 2 | 1320 | 200 | 51 | 460 | 435 | 394 | 8.5 | 6 | 23 | 13 | 56 | 72 | 164 | 300 | 464 | 1.498 |
| 45 | 225MA | MMG-G | 2 | 1350 | 200 | 51 | - | 485 | 446 | 8.5 | 4 | 23 | 13 | 56 | 83 | 164 | 340 | 504 | 1.576 |
| 55 | 250MA | MMG-G | 2 | 1450 | 200 | 51 | 525 | 560 | 526 | 9 | 6 | 23 | 13 | 56 | 93 | 164 | 465 | 629 | 1.780 |

| P2 [kW] | Motor | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m ³] |
|------------|---------------|-------|------|----------------------------|-----|----|-----|-----|-----|----|---|-----|--------------------|-----------------|--------------|------------------|-------|-------|---|
| | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | |
| 75 | 280SA | MMG-G | 2 | 1550 | 200 | 51 | 575 | 610 | 570 | 9 | 6 | 23 | 13 | 56 | 110 | 164 | 553 | 717 | 2.000 |
| 90 | 280MA | MMG-G | 2 | 1550 | 200 | 51 | 575 | 610 | 570 | 9 | 6 | 23 | 13 | 56 | 110 | 164 | 620 | 784 | 2.000 |
| 110 | 315SA | MMG-G | 2 | 1600 | 200 | 51 | 600 | 660 | 620 | 9 | 6 | 23 | 12 | 55 | 239 | 164 | 900 | 1064 | 2.565 |
| 132 | 315MA | MMG-G | 2 | 1600 | 200 | 51 | 600 | 660 | 620 | 9 | 6 | 23 | 12 | 55 | 289 | 164 | 960 | 1124 | 2.630 |
| 160 | 315LA | MMG-G | 2 | 1700 | 200 | 51 | 650 | 660 | 620 | 9 | 6 | 23 | 12 | 55 | 289 | 164 | 1030 | 1194 | 2.758 |

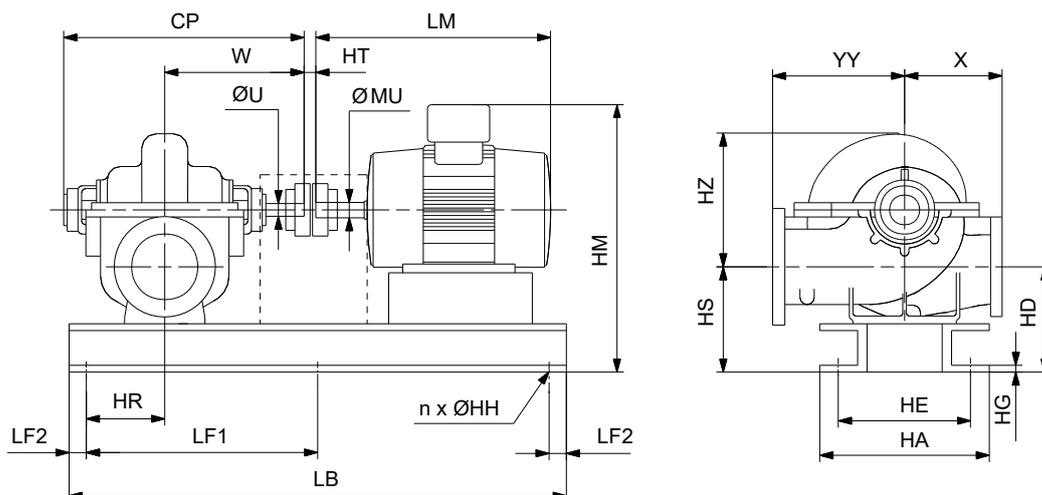
4-pole

LS 65-50-241



TM072690

LS 65-50-241 dimensional sketches



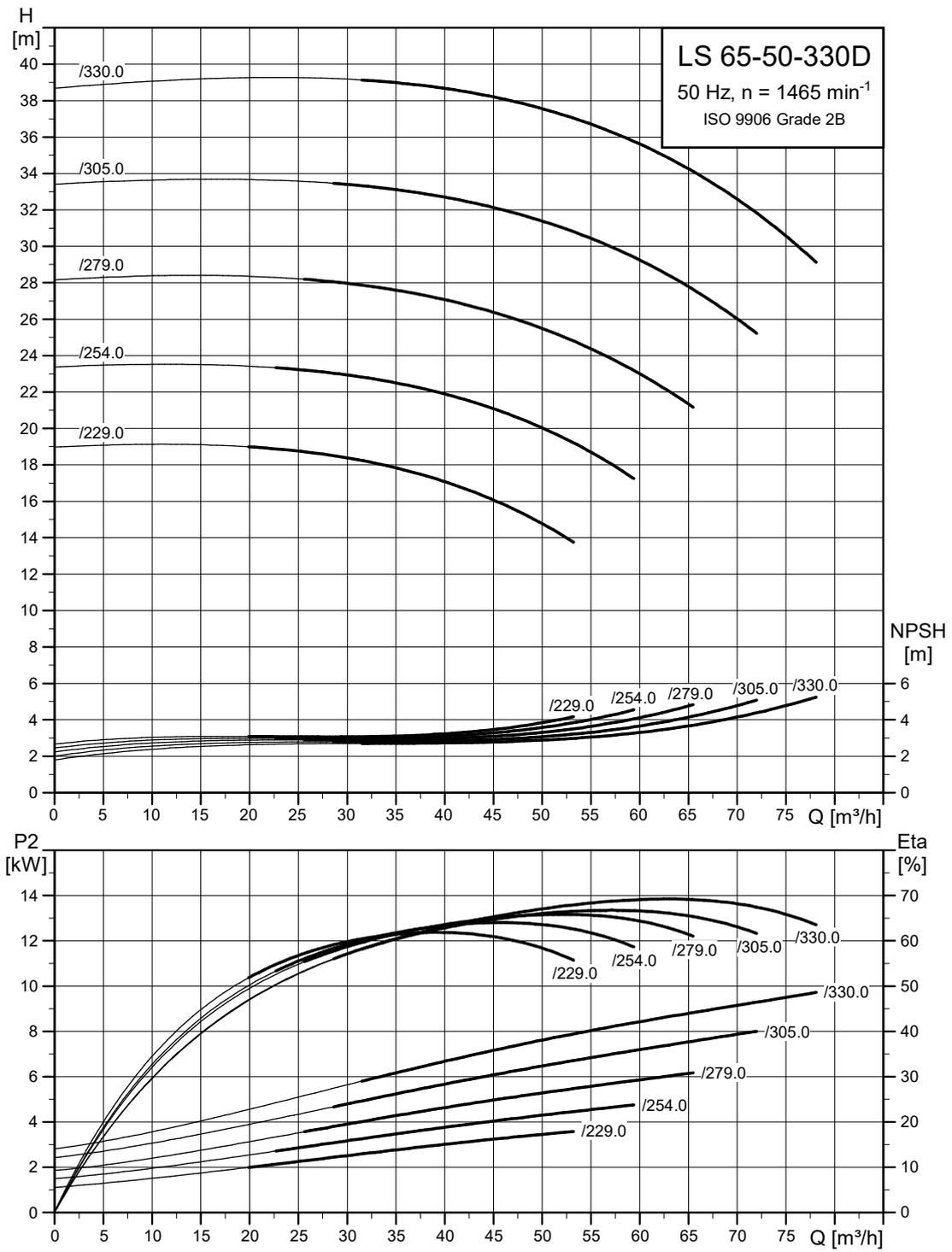
TM072172

LS 65-50-241 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | | Motor dimensions [mm] | | | Distance between shaft ends [mm] | |
|---------|------------|-------|------|----------------------|--------------|-----|----|-----|-----|-----|-----|-----------------------|-------|-----|----------------------------------|----|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 1.5 | 090LC | MG | 4 | 510 | 545 | 305 | 24 | 216 | 216 | 209 | 209 | 270 | 371 | 424 | 24 | 3 |
| 2.2 | 100LB | MG | 4 | 510 | 545 | 305 | 24 | 216 | 216 | 209 | 209 | 270 | 395 | 464 | 28 | 3 |
| 3 | 100LC | MG | 4 | 510 | 545 | 305 | 24 | 216 | 216 | 209 | 209 | 270 | 395 | 464 | 28 | 3 |
| 4 | 112MC | MG | 4 | 510 | 545 | 305 | 24 | 216 | 216 | 209 | 209 | 270 | 432 | 475 | 28 | 3 |
| 5.5 | 132SB | MG | 4 | 510 | 545 | 305 | 24 | 216 | 216 | 209 | 209 | 270 | 459 | 500 | 38 | 3 |
| 1.5 | 090L | MMG-G | 4 | 510 | 545 | 305 | 24 | 216 | 216 | 209 | 209 | 270 | 369.5 | 545 | 24 | 3 |
| 2.2 | 100LA | MMG-G | 4 | 510 | 545 | 305 | 24 | 216 | 216 | 209 | 209 | 270 | 392 | 484 | 28 | 3 |
| 3 | 100LB | MMG-G | 4 | 510 | 545 | 305 | 24 | 216 | 216 | 209 | 209 | 270 | 392 | 484 | 28 | 3 |
| 4 | 112M | MMG-G | 4 | 510 | 545 | 305 | 24 | 216 | 216 | 209 | 209 | 270 | 412.5 | 491 | 28 | 3 |
| 5.5 | 132S | MMG-G | 4 | 510 | 545 | 305 | 24 | 216 | 216 | 209 | 209 | 270 | 466 | 509 | 38 | 3 |

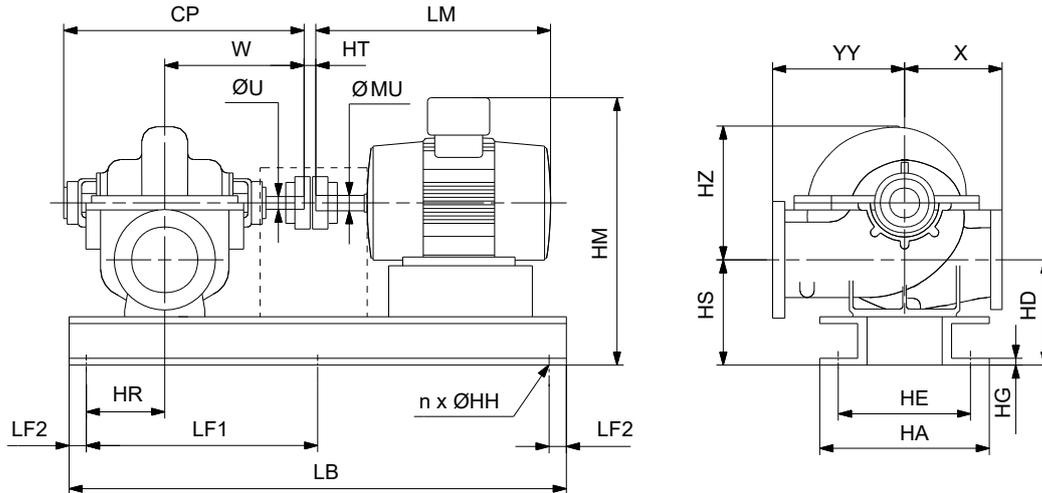
| Motor | | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] |
|---------|------------|-------|------|----------------------------|-----|----|-----|-----|-----|-----|---|-----|-----------------|--------------|-----------|------------------|-------|-------|----------------------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | Shipping volume [m³] |
| | | | | | | | | | | | | | | | | | | | |
| 2.2 | 100LB | MG | 4 | 920 | 200 | 20 | 260 | 330 | 286 | 8.5 | 6 | 18 | - | 20 | 3 | 73 | 25 | 146 | 0.42 |
| 3 | 100LC | MG | 4 | 920 | 200 | 20 | 260 | 330 | 286 | 8.5 | 6 | 18 | - | 20 | 3 | 73 | 29 | 150 | 0.42 |
| 4 | 112MC | MG | 4 | 940 | 200 | 20 | 270 | 330 | 286 | 8.5 | 6 | 18 | - | 20 | 20 | 73 | 35 | 156 | 0.43 |
| 5.5 | 132SB | MG | 4 | 1000 | 200 | 10 | - | 315 | 272 | 8.5 | 4 | 18 | - | 30 | - | 73 | 54 | 178 | 0.47 |
| 1.5 | 090L | MMG-G | 4 | 880 | 200 | 20 | - | 330 | 286 | 8.5 | 4 | 18 | - | 20 | 18 | 73 | 29 | 102 | 0.704 |
| 2.2 | 100LA | MMG-G | 4 | 920 | 200 | 20 | 260 | 330 | 286 | 8.5 | 6 | 18 | - | 20 | - | 73 | 40 | 113 | 0.653 |
| 3 | 100LB | MMG-G | 4 | 920 | 200 | 20 | 260 | 330 | 286 | 8.5 | 6 | 18 | - | 20 | - | 73 | 42 | 115 | 0.653 |
| 4 | 112M | MMG-G | 4 | 940 | 200 | 20 | 270 | 330 | 286 | 8.5 | 6 | 18 | - | 20 | 1 | 73 | 53 | 126 | 0.671 |
| 5.5 | 132S | MMG-G | 4 | 1000 | 200 | 10 | - | 315 | 272 | 8.5 | 4 | 18 | - | 30 | - | 73 | 76 | 149 | 0.723 |

LS 65-50-330



TM072691

LS 65-50-330 dimensional sketches



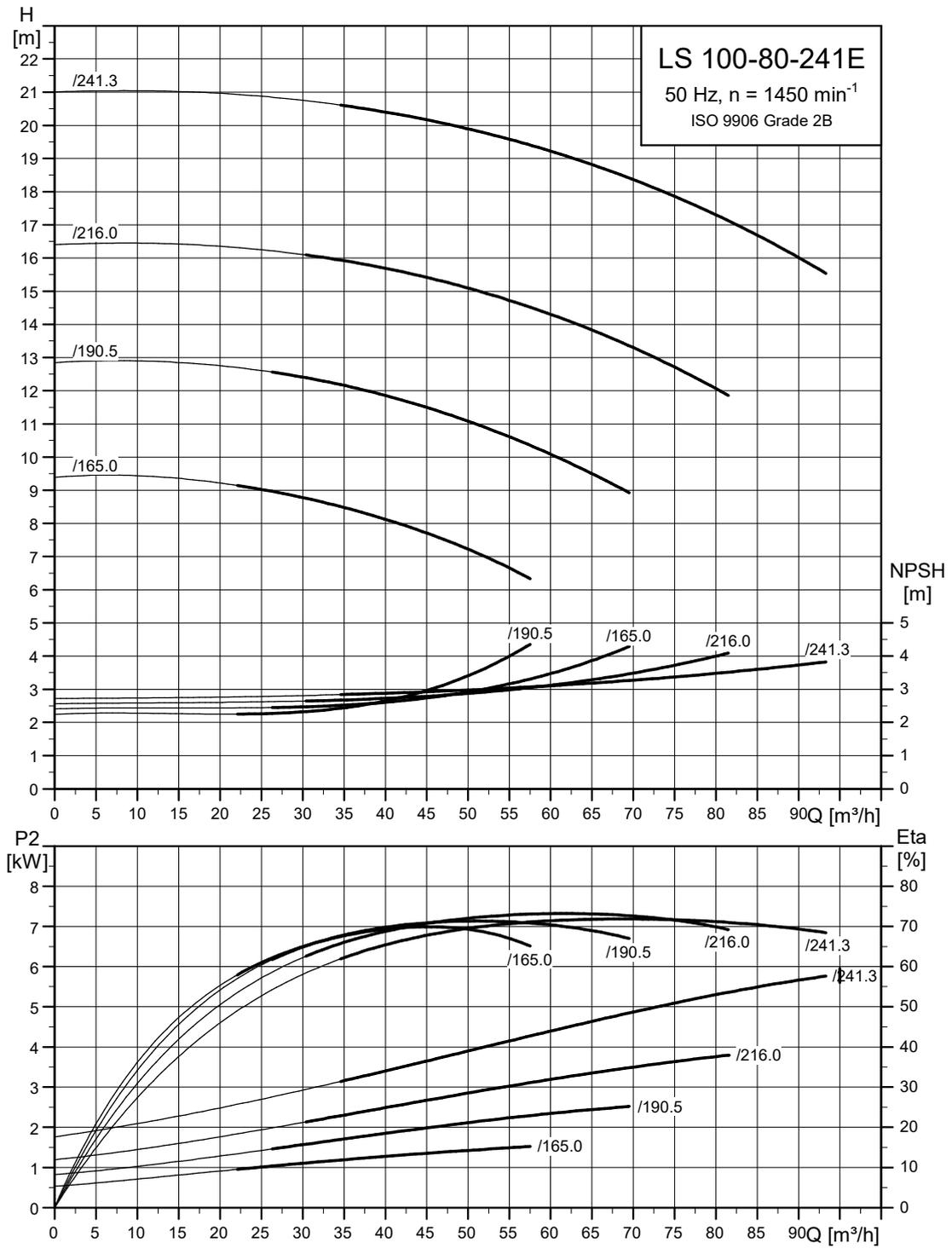
TM072172

LS 65-50-330 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | | Motor dimensions [mm] | | | Distance between shaft ends [mm] | |
|---------|------------|-------|------|----------------------|--------------|-----|----|-----|-----|-----|-----|-----------------------|-------|-----|----------------------------------|----|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 4 | 112MC | MG | 4 | 510 | 545 | 305 | 24 | 254 | 254 | 209 | 209 | 355 | 432 | 513 | 28 | 3 |
| 5.5 | 132SB | MG | 4 | 510 | 545 | 305 | 24 | 254 | 254 | 209 | 209 | 355 | 459 | 538 | 38 | 3 |
| 7.5 | 132MB | MG | 4 | 510 | 545 | 305 | 24 | 254 | 254 | 209 | 209 | 355 | 509 | 538 | 38 | 3 |
| 11 | 160MB | MG | 4 | 510 | 545 | 305 | 24 | 254 | 254 | 209 | 209 | 355 | 581 | 572 | 42 | 3 |
| 15 | 160LB | MG | 4 | 510 | 545 | 305 | 24 | 254 | 254 | 209 | 209 | 355 | 655 | 572 | 42 | 3 |
| 4 | 112M | MMG-G | 4 | 510 | 545 | 305 | 24 | 254 | 254 | 209 | 209 | 355 | 412.5 | 529 | 28 | 3 |
| 5.5 | 132S | MMG-G | 4 | 510 | 545 | 305 | 24 | 254 | 254 | 209 | 209 | 355 | 466 | 547 | 38 | 3 |
| 7.5 | 132M | MMG-G | 4 | 510 | 545 | 305 | 24 | 254 | 254 | 209 | 209 | 355 | 504 | 547 | 38 | 3 |
| 11 | 160M | MMG-G | 4 | 510 | 545 | 305 | 24 | 254 | 254 | 209 | 209 | 355 | 608 | 577 | 42 | 3 |
| 15 | 160L | MMG-G | 4 | 510 | 545 | 305 | 24 | 254 | 254 | 209 | 209 | 355 | 652 | 577 | 42 | 3 |

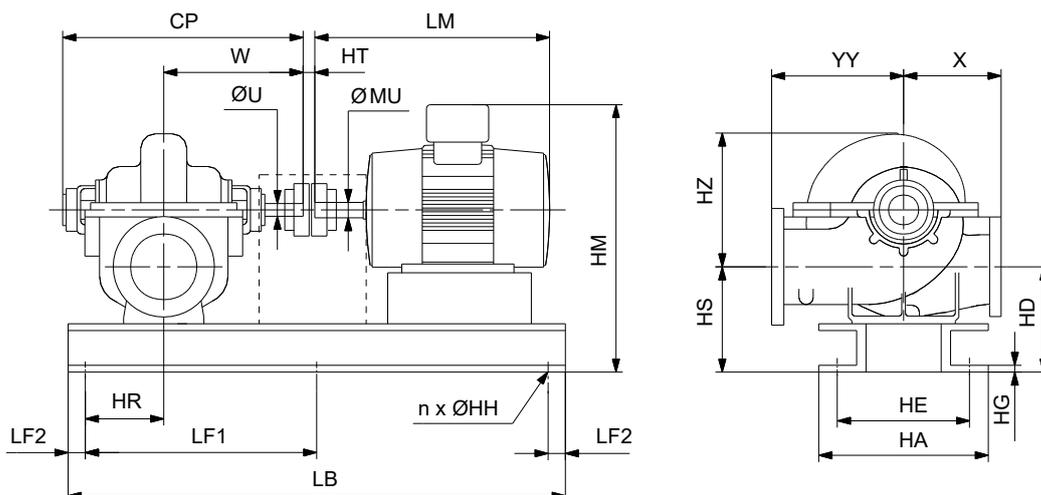
| Motor | | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] |
|---------|------------|-------|------|----------------------------|-----|----|-----|-----|-----|-----|---|-----|-----------------|--------------|-----------|------------------|-------|-------|----------------------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | Shipping volume [m³] |
| | | | | | | | | | | | | | | | | | | | |
| 5.5 | 132SB | MG | 4 | 1010 | 200 | 20 | 305 | 330 | 286 | 8.5 | 6 | 18 | - | 20 | - | 95 | 54 | 202 | 0.64 |
| 7.5 | 132MB | MG | 4 | 1010 | 200 | 20 | 305 | 330 | 286 | 8.5 | 6 | 18 | - | 20 | - | 95 | 68 | 216 | 0.64 |
| 11 | 160MB | MG | 4 | 1140 | 200 | 20 | 370 | 390 | 346 | 8.5 | 6 | 18 | - | 20 | - | 95 | 95 | 254 | 0.59 |
| 15 | 160LB | MG | 4 | 1140 | 200 | 20 | 370 | 390 | 346 | 8.5 | 6 | 18 | - | 20 | 59 | 95 | 115 | 274 | 0.61 |
| 4 | 112M | MMG-G | 4 | 940 | 200 | 20 | 270 | 330 | 286 | 8.5 | 6 | 18 | - | 20 | 1 | 95 | 53 | 148 | 0.805 |
| 5.5 | 132S | MMG-G | 4 | 1010 | 200 | 20 | 305 | 330 | 286 | 8.5 | 6 | 18 | - | 20 | - | 95 | 76 | 171 | 0.857 |
| 7.5 | 132M | MMG-G | 4 | 1010 | 200 | 20 | 305 | 330 | 286 | 8.5 | 6 | 18 | - | 20 | 22 | 95 | 93 | 188 | 0.873 |
| 11 | 160M | MMG-G | 4 | 1140 | 200 | 20 | 370 | 390 | 346 | 8.5 | 6 | 18 | - | 20 | - | 95 | 130 | 225 | 0.966 |
| 15 | 160L | MMG-G | 4 | 1140 | 200 | 20 | 370 | 390 | 346 | 8.5 | 6 | 18 | - | 20 | 40 | 95 | 150 | 245 | 0.996 |

LS 100-80-241



TM072627

LS 100-80-241 dimensional sketches



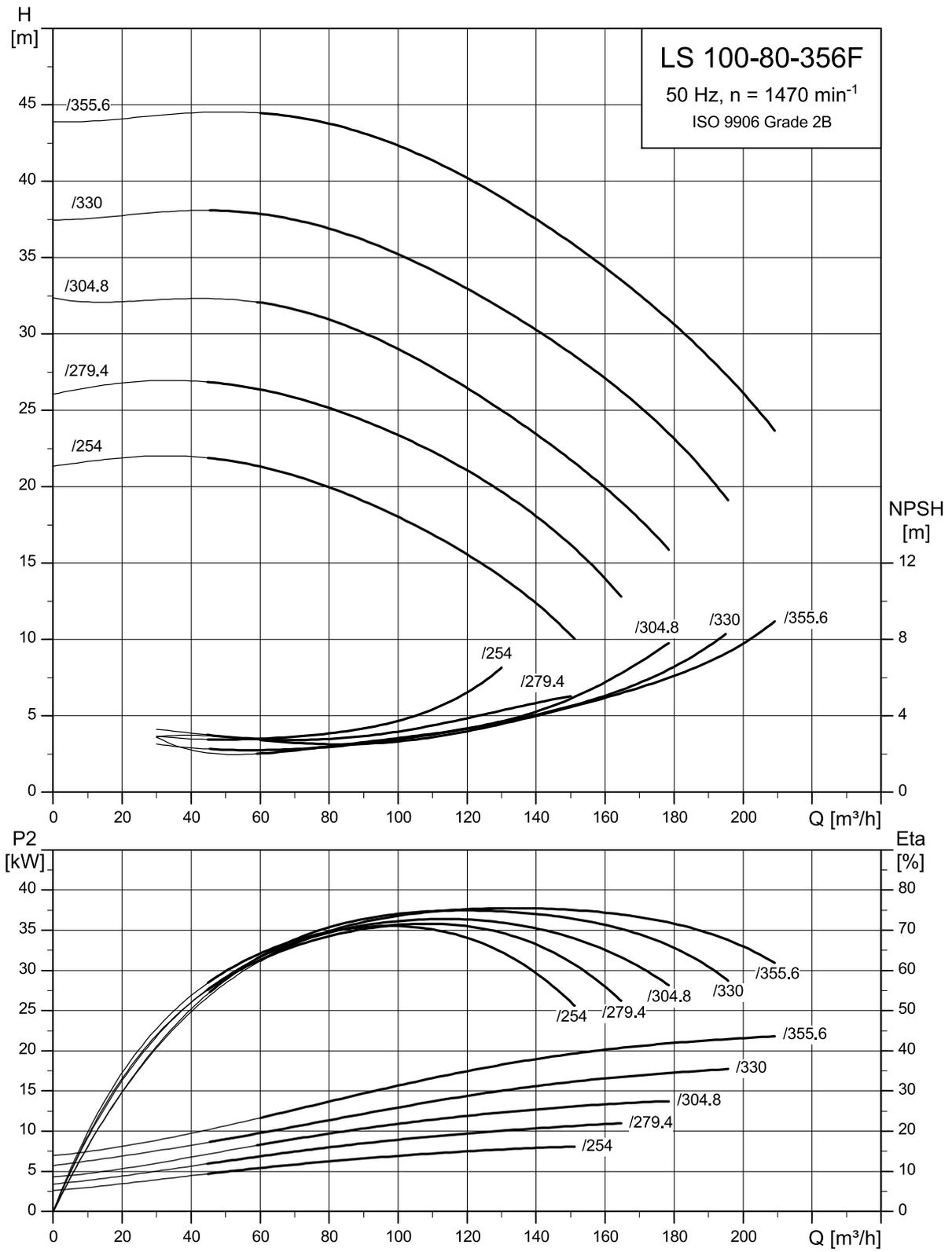
TM072172

LS 100-80-241 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | | Motor dimensions [mm] | | | Distance between shaft ends [mm] | |
|---------|------------|-------|------|----------------------|--------------|-----|----|-----|-----|-----|-----|-----------------------|-------|-----|----------------------------------|----|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 2.2 | 100LB | MG | 4 | 510 | 545 | 305 | 24 | 279 | 279 | 222 | 222 | 290 | 395 | 489 | 28 | 3 |
| 3 | 100LC | MG | 4 | 510 | 545 | 305 | 24 | 279 | 279 | 222 | 222 | 290 | 395 | 489 | 28 | 3 |
| 4 | 112MC | MG | 4 | 510 | 545 | 305 | 24 | 279 | 279 | 222 | 222 | 290 | 432 | 500 | 28 | 3 |
| 5.5 | 132SB | MG | 4 | 510 | 545 | 305 | 24 | 279 | 279 | 222 | 222 | 290 | 459 | 525 | 38 | 3 |
| 7.5 | 132MB | MG | 4 | 510 | 545 | 305 | 24 | 279 | 279 | 222 | 222 | 290 | 509 | 525 | 38 | 3 |
| 2.2 | 100LA | MMG-G | 4 | 510 | 545 | 305 | 24 | 279 | 279 | 222 | 222 | 290 | 392 | 509 | 28 | 3 |
| 3 | 100LB | MMG-G | 4 | 510 | 545 | 305 | 24 | 279 | 279 | 222 | 222 | 290 | 392 | 509 | 28 | 3 |
| 4 | 112M | MMG-G | 4 | 510 | 545 | 305 | 24 | 279 | 279 | 222 | 222 | 290 | 412.5 | 516 | 28 | 3 |
| 5.5 | 132S | MMG-G | 4 | 510 | 545 | 305 | 24 | 279 | 279 | 222 | 222 | 290 | 466 | 534 | 38 | 3 |
| 7.5 | 132M | MMG-G | 4 | 510 | 545 | 305 | 24 | 279 | 279 | 222 | 222 | 290 | 504 | 534 | 38 | 3 |

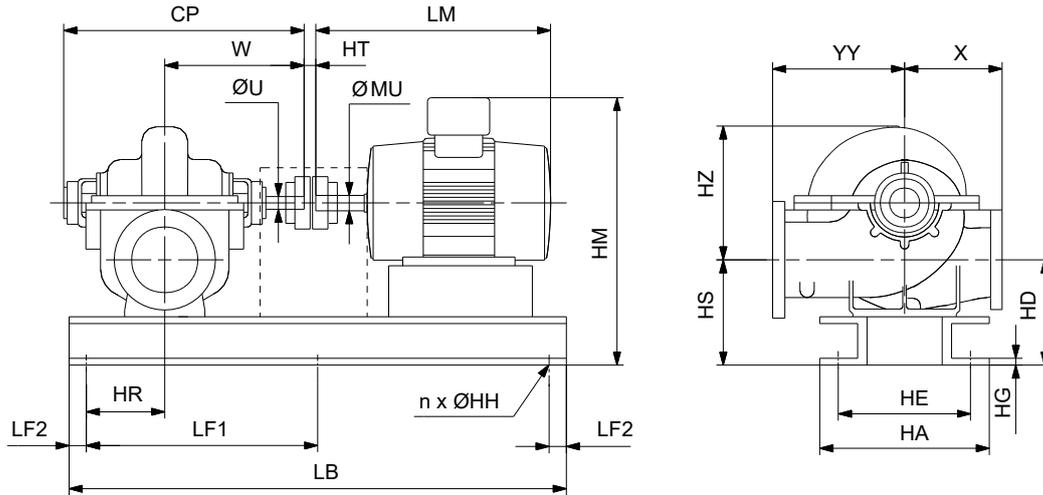
| Motor | | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] |
|---------|------------|-------|------|----------------------------|-----|----|-----|-----|-----|-----|---|-----|-----------------|--------------|-----------|------------------|-------|-------|----------------------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | Shipping volume [m³] |
| | | | | | | | | | | | | | | | | | | | |
| 3 | 100LC | MG | 4 | 920 | 200 | 20 | 260 | 315 | 271 | 8.5 | 6 | 18 | - | 20 | 3 | 80 | 29 | 156 | 0.53 |
| 4 | 112MC | MG | 4 | 930 | 200 | 20 | 265 | 315 | 271 | 8.5 | 6 | 18 | - | 20 | 30 | 80 | 35 | 161 | 0.55 |
| 5.5 | 132SB | MG | 4 | 1010 | 200 | 20 | 305 | 315 | 271 | 8.5 | 6 | 18 | - | 20 | - | 80 | 54 | 185 | 0.58 |
| 7.5 | 132MB | MG | 4 | 1010 | 200 | 20 | 305 | 315 | 271 | 8.5 | 6 | 18 | - | 20 | 27 | 80 | 68 | 199 | 0.60 |
| 2.2 | 100LA | MMG-G | 4 | 920 | 200 | 20 | 260 | 315 | 271 | 8.5 | 6 | 18 | - | 20 | - | 80 | 40 | 120 | 0.791 |
| 3 | 100LB | MMG-G | 4 | 920 | 200 | 20 | 260 | 315 | 271 | 8.5 | 6 | 18 | - | 20 | - | 80 | 42 | 122 | 0.791 |
| 4 | 112M | MMG-G | 4 | 930 | 200 | 20 | 265 | 315 | 271 | 8.5 | 6 | 18 | - | 20 | 11 | 80 | 53 | 133 | 0.810 |
| 5.5 | 132S | MMG-G | 4 | 1010 | 200 | 20 | 305 | 315 | 271 | 8.5 | 6 | 18 | - | 20 | - | 80 | 76 | 156 | 0.879 |
| 7.5 | 132M | MMG-G | 4 | 1010 | 200 | 20 | 305 | 315 | 271 | 8.5 | 6 | 18 | - | 20 | 22 | 80 | 93 | 173 | 0.896 |

LS 100-80-356



TM083141

LS 100-80-356 dimensional sketches



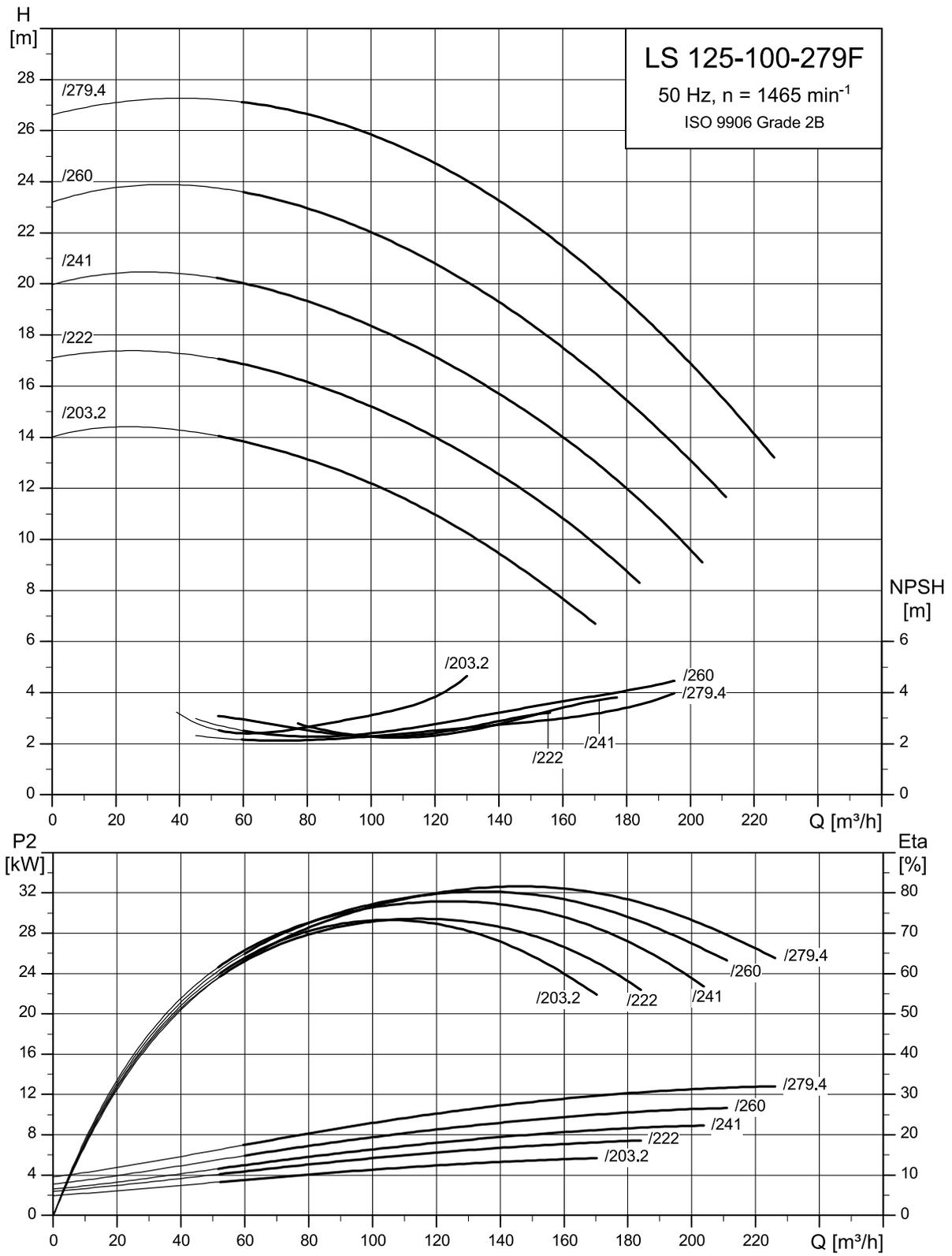
TM072172

LS 100-80-356 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | | Motor dimensions [mm] | | | Distance between shaft ends [mm] | |
|---------|------------|---------|------|----------------------|--------------|-----|----|-----|-----|-----|-----|-----------------------|-----|-----|----------------------------------|----|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 7.5 | 132MB | MG | 4 | 644 | 687 | 368 | 34 | 305 | 305 | 247 | 247 | 380 | 509 | 576 | 38 | 3 |
| 11 | 160MB | MG | 4 | 644 | 687 | 368 | 34 | 305 | 305 | 247 | 247 | 380 | 581 | 611 | 42 | 3 |
| 15 | 160LB | MG | 4 | 644 | 687 | 368 | 34 | 305 | 305 | 247 | 247 | 380 | 655 | 611 | 42 | 3 |
| 18.5 | 180M | Siemens | 4 | 644 | 687 | 368 | 34 | 305 | 305 | 247 | 247 | 380 | 712 | 660 | 48 | 4 |
| 22 | 180L | Siemens | 4 | 644 | 687 | 368 | 34 | 305 | 305 | 247 | 247 | 380 | 712 | 660 | 48 | 4 |
| 30 | 200L | Siemens | 4 | 644 | 687 | 368 | 34 | 305 | 305 | 247 | 247 | 380 | 769 | 709 | 55 | 4 |
| 7.5 | 132M | MMG-G | 4 | 644 | 687 | 368 | 34 | 305 | 305 | 247 | 247 | 380 | 504 | 585 | 38 | 3 |
| 11 | 160M | MMG-G | 4 | 644 | 687 | 368 | 34 | 305 | 305 | 247 | 247 | 380 | 608 | 615 | 42 | 3 |
| 15 | 160L | MMG-G | 4 | 644 | 687 | 368 | 34 | 305 | 305 | 247 | 247 | 380 | 652 | 615 | 42 | 3 |
| 18.5 | 180M | MMG-G | 4 | 644 | 687 | 368 | 34 | 305 | 305 | 247 | 247 | 380 | 672 | 641 | 48 | 4 |
| 22 | 180L | MMG-G | 4 | 644 | 687 | 368 | 34 | 305 | 305 | 247 | 247 | 380 | 710 | 641 | 48 | 4 |
| 30 | 200L | MMG-G | 4 | 644 | 687 | 368 | 34 | 305 | 305 | 247 | 247 | 380 | 770 | 706 | 55 | 4 |

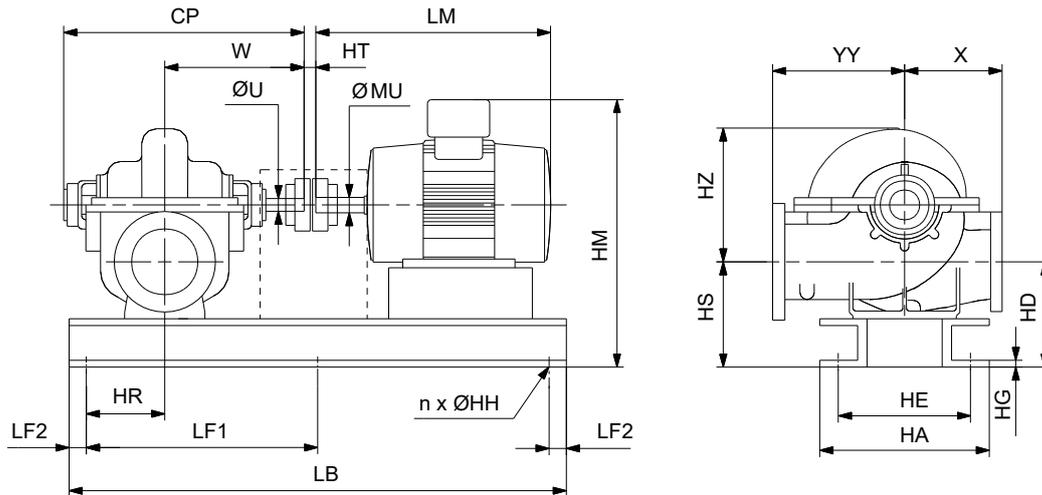
| Motor | | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] |
|---------|------------|---------|------|----------------------------|-----|----|-----|-----|-----|-----|---|-----|-----------------|--------------|-----------|------------------|-------|-------|----------------------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | Shipping volume [m³] |
| | | | | | | | | | | | | | | | | | | | |
| 11 | 160MB | MG | 4 | 1220 | 200 | 40 | 410 | 390 | 346 | 8.5 | 6 | 18 | 36 | 79 | - | 177 | 95 | 341 | 0.88 |
| 15 | 160LB | MG | 4 | 1220 | 200 | 40 | 410 | 390 | 346 | 8.5 | 6 | 18 | 36 | 79 | 46 | 177 | 115 | 361 | 0.91 |
| 18.5 | 180M | Siemens | 4 | 1250 | 200 | 41 | - | 400 | 360 | 8.5 | 4 | 23 | 36 | 79 | 35 | 177 | 126 | 374 | 0.96 |
| 22 | 180L | Siemens | 4 | 1250 | 200 | 41 | - | 400 | 360 | 8.5 | 4 | 23 | 36 | 79 | 65 | 177 | 146 | 394 | 0.98 |
| 30 | 200L | Siemens | 4 | 1300 | 200 | 40 | 450 | 420 | 372 | 9 | 6 | 18 | 36 | 79 | 63 | 177 | 200 | 449 | 1.06 |
| 7.5 | 132M | MMG-G | 4 | 1090 | 200 | 40 | 345 | 315 | 271 | 8.5 | 6 | 18 | 36 | 79 | 25 | 177 | 93 | 270 | 1.157 |
| 11 | 160M | MMG-G | 4 | 1220 | 200 | 40 | 410 | 390 | 346 | 8.5 | 6 | 18 | 36 | 79 | - | 177 | 130 | 307 | 1.250 |
| 15 | 160L | MMG-G | 4 | 1220 | 200 | 40 | 410 | 390 | 346 | 8.5 | 6 | 18 | 36 | 79 | 43 | 177 | 150 | 327 | 1.288 |
| 18.5 | 180M | MMG-G | 4 | 1250 | 200 | 41 | - | 400 | 360 | 8.5 | 4 | 23 | 36 | 79 | 34 | 177 | 195 | 372 | 1.325 |
| 22 | 180L | MMG-G | 4 | 1250 | 200 | 41 | - | 400 | 360 | 8.5 | 4 | 23 | 36 | 79 | 72 | 177 | 205 | 382 | 1.359 |
| 30 | 200L | MMG-G | 4 | 1300 | 200 | 40 | 450 | 420 | 372 | 9 | 6 | 18 | 36 | 79 | 82 | 177 | 285 | 462 | 1.507 |

LS 125-100-279



TM083145

LS 125-100-279 dimensional sketches



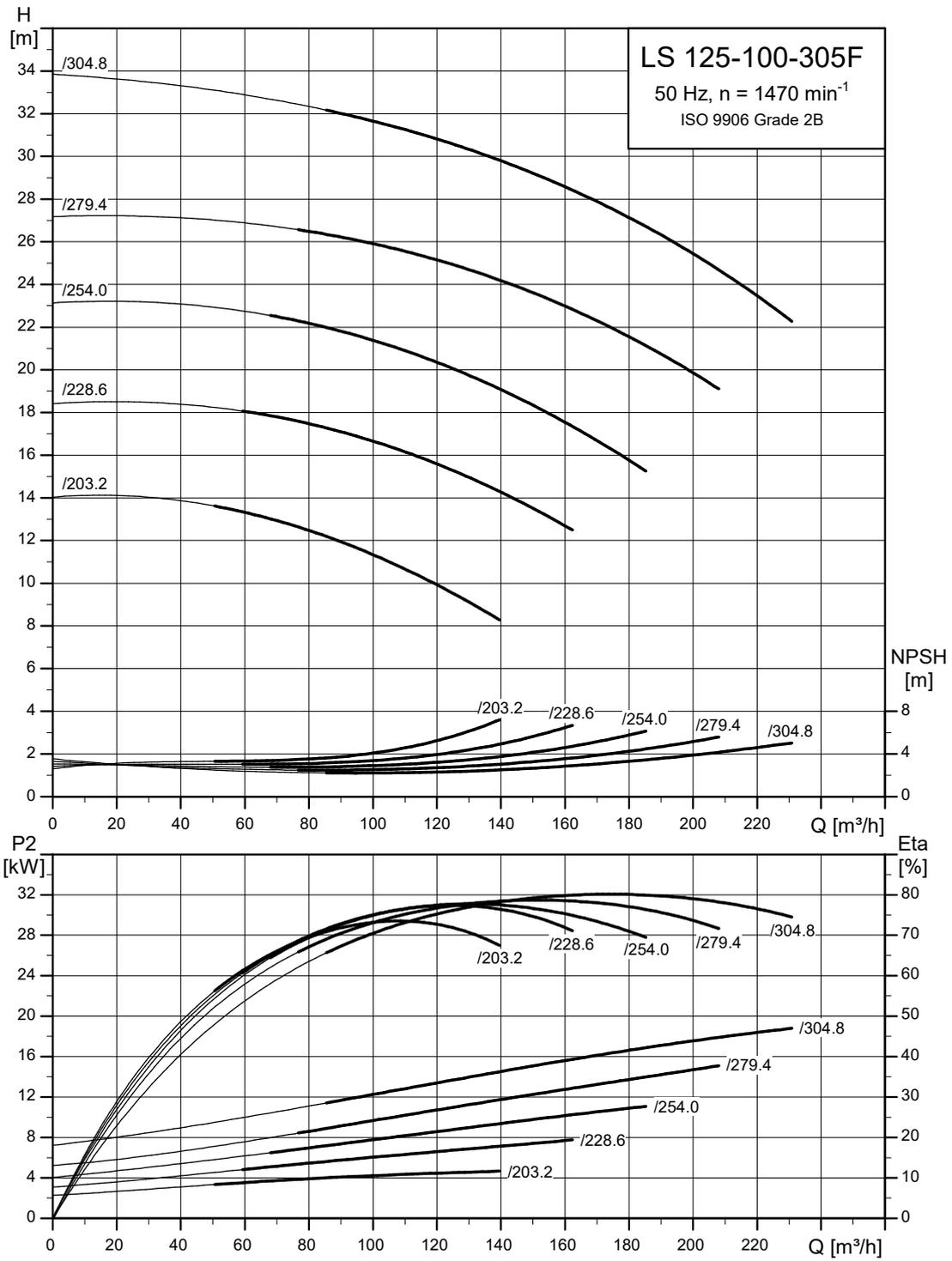
TM072172

LS 125-100-279 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | | Motor dimensions [mm] | | | Distance between shaft ends [mm] | |
|---------|------------|-------|------|----------------------|--------------|-----|----|-----|-----|-----|-----|-----------------------|-------|-----|----------------------------------|----|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 2.2 | 100LB | MG | 4 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 395 | 543 | 28 | 8 |
| 3 | 100LC | MG | 4 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 395 | 543 | 28 | 8 |
| 4 | 112MC | MG | 4 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 432 | 574 | 28 | 8 |
| 5.5 | 132SB | MG | 4 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 459 | 579 | 38 | 3 |
| 7.5 | 132MB | MG | 4 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 509 | 579 | 38 | 3 |
| 11 | 160MB | MG | 4 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 581 | 634 | 42 | 3 |
| 15 | 160LB | MG | 4 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 655 | 634 | 42 | 3 |
| 2.2 | 100LA | MMG-G | 4 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 392 | 563 | 28 | 8 |
| 3 | 100LB | MMG-G | 4 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 392 | 563 | 28 | 8 |
| 4 | 112M | MMG-G | 4 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 412.5 | 570 | 28 | 8 |
| 5.5 | 132S | MMG-G | 4 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 466 | 588 | 38 | 3 |
| 7.5 | 132M | MMG-G | 4 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 504 | 588 | 38 | 3 |
| 11 | 160M | MMG-G | 4 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 608 | 618 | 42 | 3 |
| 15 | 160L | MMG-G | 4 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 652 | 618 | 42 | 3 |

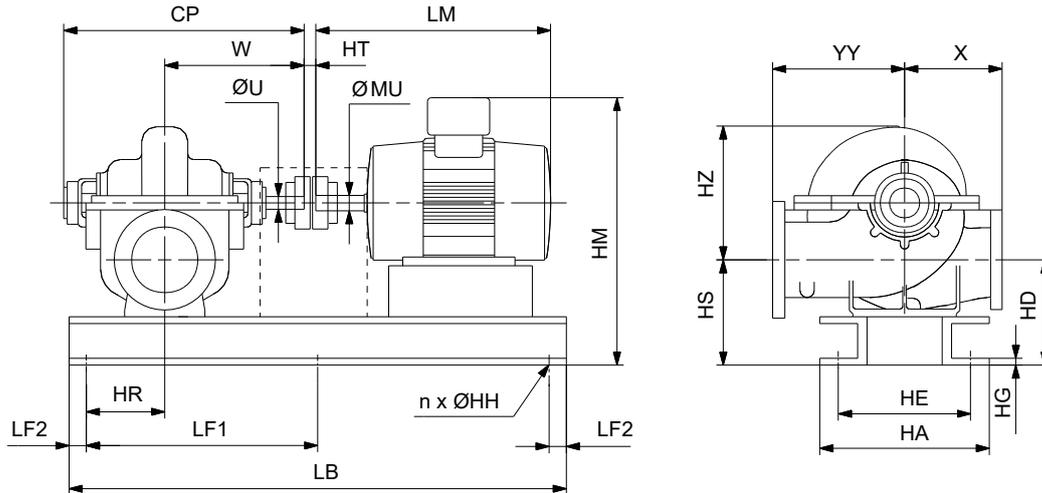
| Motor | | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] |
|---------|------------|-------|------|----------------------------|-----|----|-----|-----|-----|-----|---|-----|-----------------|--------------|-----------|------------------|-------|-------|----------------------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | |
| | | | | | | | | | | | | | | | | | | | 2.2 |
| 3 | 100LC | MG | 4 | 1020 | 200 | 50 | 310 | 315 | 271 | 8.5 | 6 | 18 | 13 | 56 | 39 | 164 | 29 | 249 | 0.76 |
| 4 | 112MC | MG | 4 | 1020 | 200 | 50 | 310 | 315 | 267 | 9 | 6 | 18 | 13 | 56 | 23 | 164 | 35 | 255 | 0.77 |
| 5.5 | 132SB | MG | 4 | 1100 | 200 | 50 | 350 | 315 | 271 | 8.5 | 6 | 18 | 13 | 56 | 39 | 164 | 54 | 275 | 0.78 |
| 7.5 | 132MB | MG | 4 | 1100 | 200 | 50 | 350 | 315 | 271 | 8.5 | 6 | 18 | 13 | 56 | 39 | 164 | 68 | 289 | 0.81 |
| 11 | 160MB | MG | 4 | 1250 | 200 | 50 | 425 | 334 | 286 | 9 | 6 | 18 | 13 | 56 | - | 164 | 95 | 323 | 0.90 |
| 15 | 160LB | MG | 4 | 1250 | 200 | 50 | 425 | 334 | 286 | 9 | 6 | 18 | 13 | 56 | 45 | 164 | 115 | 343 | 0.92 |
| 2.2 | 100LA | MMG-G | 4 | 1020 | 200 | 50 | 310 | 315 | 271 | 8.5 | 6 | 18 | 13 | 56 | - | 164 | 40 | 204 | 1.038 |
| 3 | 100LB | MMG-G | 4 | 1020 | 200 | 50 | 310 | 315 | 271 | 8.5 | 6 | 18 | 13 | 56 | - | 164 | 42 | 206 | 1.038 |
| 4 | 112M | MMG-G | 4 | 1020 | 200 | 50 | 310 | 315 | 267 | 9 | 6 | 18 | 13 | 56 | 19 | 164 | 53 | 217 | 1.054 |
| 5.5 | 132S | MMG-G | 4 | 1100 | 200 | 50 | 350 | 315 | 271 | 8.5 | 6 | 18 | 13 | 56 | - | 164 | 76 | 240 | 1.108 |
| 7.5 | 132M | MMG-G | 4 | 1100 | 200 | 50 | 350 | 315 | 271 | 8.5 | 6 | 18 | 13 | 56 | 25 | 164 | 93 | 257 | 1.130 |
| 11 | 160M | MMG-G | 4 | 1250 | 200 | 50 | 425 | 334 | 286 | 9 | 6 | 18 | 13 | 56 | - | 164 | 130 | 294 | 1.244 |
| 15 | 160L | MMG-G | 4 | 1250 | 200 | 50 | 425 | 334 | 286 | 9 | 6 | 18 | 13 | 56 | 23 | 164 | 150 | 314 | 1.264 |

LS 125-100-305



TM072632

LS 125-100-305 dimensional sketches



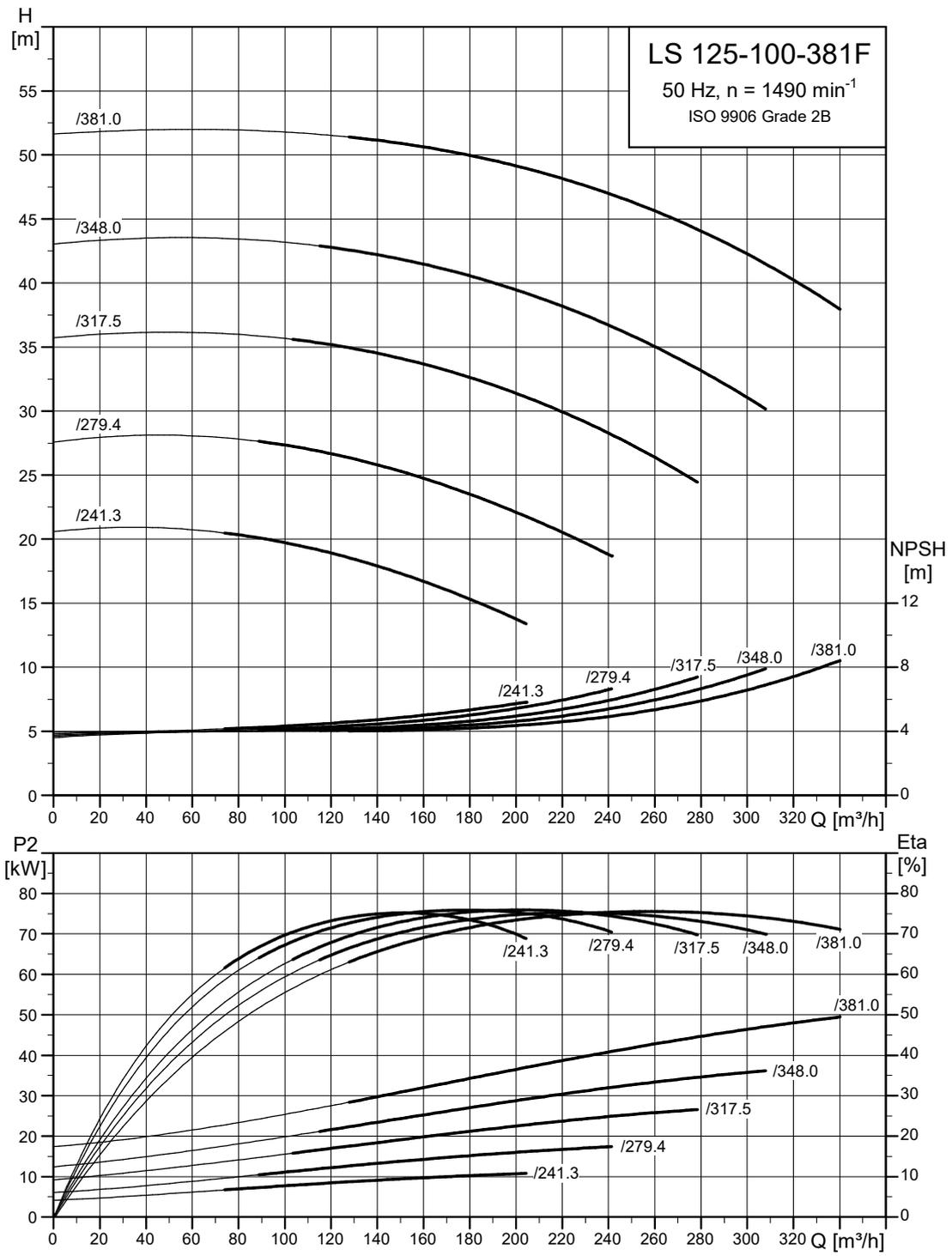
TM072172

LS 125-100-305 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | | Motor dimensions [mm] | | | Distance between shaft ends [mm] | |
|---------|------------|---------|------|----------------------|--------------|-----|----|-----|-----|-----|-----|-----------------------|-------|-----|----------------------------------|----|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 4 | 112MC | MG | 4 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 432 | 574 | 28 | 8 |
| 5.5 | 132SB | MG | 4 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 459 | 579 | 38 | 3 |
| 7.5 | 132MB | MG | 4 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 509 | 579 | 38 | 3 |
| 11 | 160MB | MG | 4 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 581 | 634 | 42 | 3 |
| 15 | 160LB | MG | 4 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 655 | 634 | 42 | 3 |
| 18.5 | 180M | Siemens | 4 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 712 | 663 | 48 | 4 |
| 22 | 180L | Siemens | 4 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 712 | 663 | 48 | 4 |
| 4 | 112M | MMG-G | 4 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 412.5 | 570 | 28 | 8 |
| 5.5 | 132S | MMG-G | 4 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 466 | 588 | 38 | 3 |
| 7.5 | 132M | MMG-G | 4 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 504 | 588 | 38 | 3 |
| 11 | 160M | MMG-G | 4 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 608 | 618 | 42 | 3 |
| 15 | 160L | MMG-G | 4 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 652 | 618 | 42 | 3 |
| 18.5 | 180M | MMG-G | 4 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 672 | 644 | 48 | 4 |
| 22 | 180L | MMG-G | 4 | 631 | 674 | 368 | 34 | 305 | 305 | 244 | 244 | 370 | 710 | 644 | 48 | 4 |

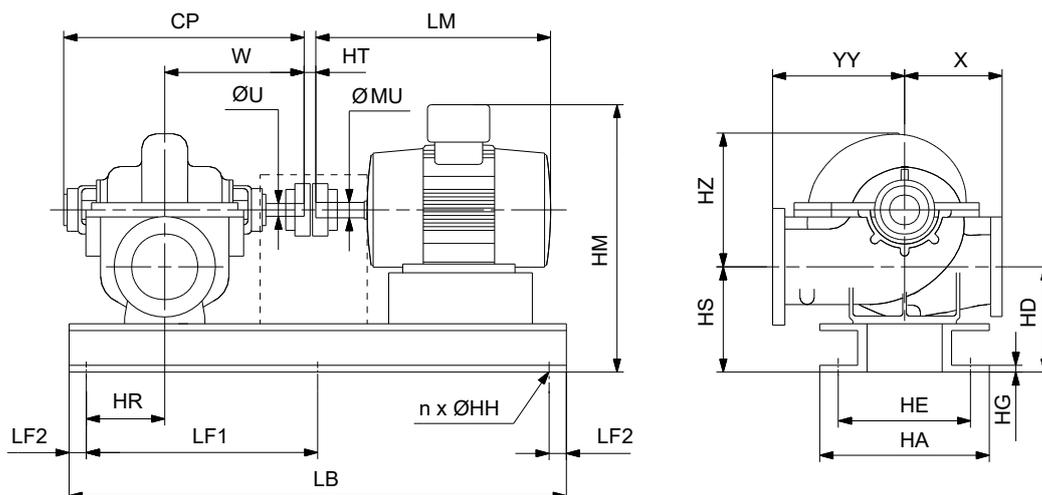
| Motor | | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] |
|---------|------------|---------|------|----------------------------|-----|----|-----|-----|-----|-----|---|-----|-----------------|--------------|-----------|------------------|-------|-------|----------------------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | |
| | | | | | | | | | | | | | | | | | | | 4 |
| 5.5 | 132SB | MG | 4 | 1100 | 200 | 50 | 350 | 315 | 271 | 8.5 | 6 | 18 | 13 | 56 | 39 | 164 | 54 | 275 | 0.78 |
| 7.5 | 132MB | MG | 4 | 1100 | 200 | 50 | 350 | 315 | 271 | 8.5 | 6 | 18 | 13 | 56 | 39 | 164 | 68 | 289 | 0.81 |
| 11 | 160MB | MG | 4 | 1250 | 200 | 50 | 425 | 334 | 286 | 9 | 6 | 18 | 13 | 56 | - | 164 | 95 | 323 | 0.90 |
| 15 | 160LB | MG | 4 | 1250 | 200 | 50 | 425 | 334 | 286 | 9 | 6 | 18 | 13 | 56 | 45 | 164 | 115 | 343 | 0.92 |
| 18.5 | 180M | Siemens | 4 | 1280 | 200 | 50 | 440 | 390 | 346 | 8.5 | 6 | 18 | 13 | 56 | 28 | 164 | 126 | 363 | 0.97 |
| 22 | 180L | Siemens | 4 | 1280 | 200 | 50 | 440 | 390 | 346 | 8.5 | 6 | 18 | 13 | 56 | 58 | 164 | 146 | 383 | 0.99 |
| 4 | 112M | MMG-G | 4 | 1020 | 200 | 50 | 310 | 315 | 267 | 9 | 6 | 18 | 13 | 56 | 19 | 164 | 53 | 217 | 1.054 |
| 5.5 | 132S | MMG-G | 4 | 1100 | 200 | 50 | 350 | 315 | 271 | 8.5 | 6 | 18 | 13 | 56 | - | 164 | 76 | 240 | 1.108 |
| 7.5 | 132M | MMG-G | 4 | 1100 | 200 | 50 | 350 | 315 | 271 | 8.5 | 6 | 18 | 13 | 56 | 25 | 164 | 93 | 257 | 1.130 |
| 11 | 160M | MMG-G | 4 | 1250 | 200 | 50 | 425 | 334 | 286 | 9 | 6 | 18 | 13 | 56 | - | 164 | 130 | 294 | 1.244 |
| 15 | 160L | MMG-G | 4 | 1250 | 200 | 50 | 425 | 334 | 286 | 9 | 6 | 18 | 13 | 56 | 23 | 164 | 150 | 314 | 1.264 |
| 18.5 | 180M | MMG-G | 4 | 1280 | 200 | 50 | 440 | 390 | 346 | 8.5 | 6 | 18 | 13 | 56 | 14 | 164 | 195 | 359 | 1.317 |
| 22 | 180L | MMG-G | 4 | 1280 | 200 | 50 | 440 | 390 | 346 | 8.5 | 6 | 18 | 13 | 56 | 52 | 164 | 205 | 369 | 1.351 |

LS 125-100-381



TM072633

LS 125-100-381 dimensional sketches



TM072172

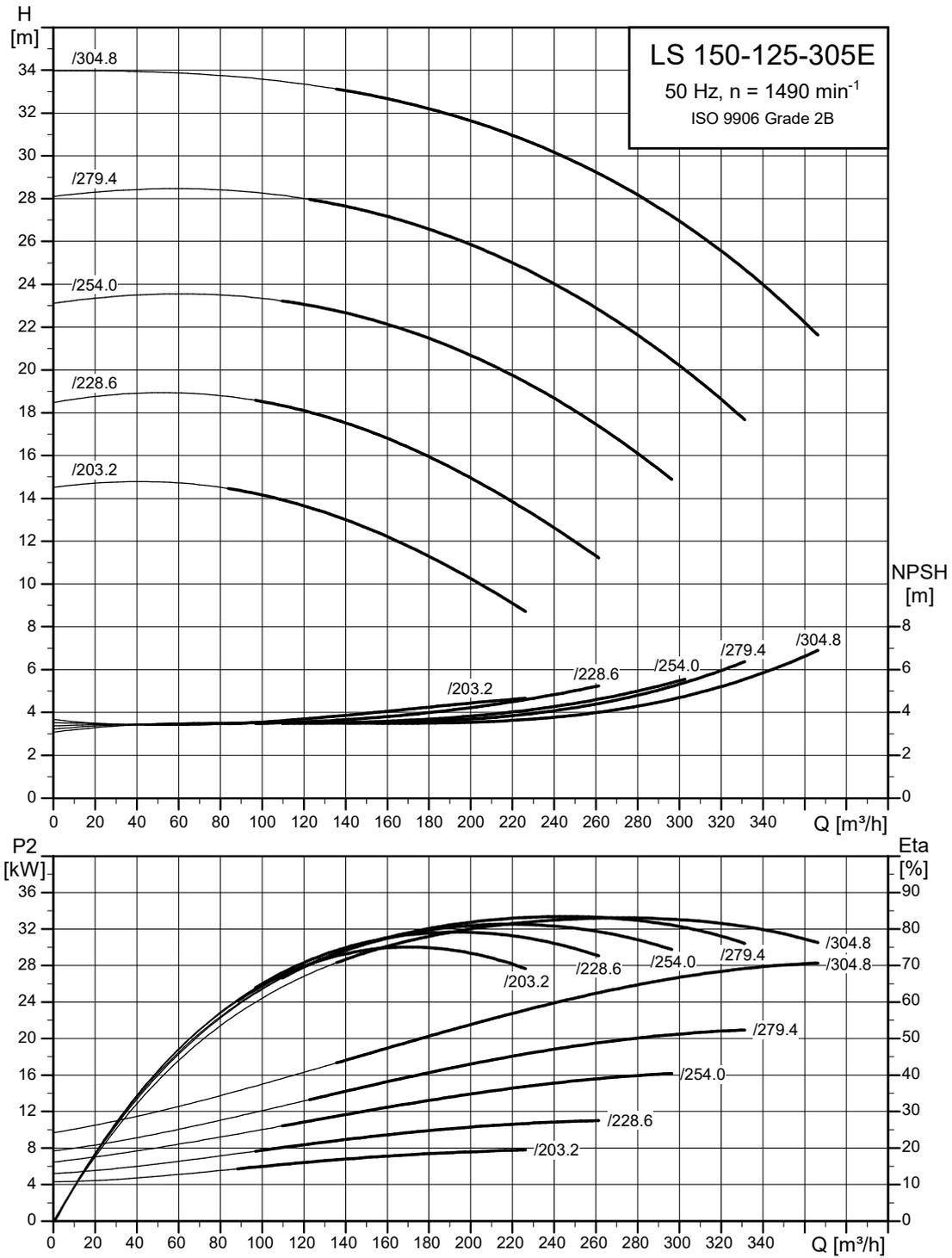
LS 125-100-381 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | | Motor dimensions [mm] | | | Distance between shaft ends [mm] | |
|---------|------------|---------|------|----------------------|--------------|-----|----|-----|-----|-----|-----|-----------------------|--------|-----|----------------------------------|----|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 11 | 160MB | MG | 4 | 631 | 674 | 368 | 34 | 357 | 357 | 279 | 279 | 470 | 581 | 707 | 42 | 3 |
| 15 | 160LB | MG | 4 | 631 | 674 | 368 | 34 | 357 | 357 | 279 | 279 | 470 | 655 | 707 | 42 | 3 |
| 18.5 | 180M | Siemens | 4 | 631 | 674 | 368 | 34 | 357 | 357 | 279 | 279 | 470 | 712 | 736 | 48 | 4 |
| 22 | 180L | Siemens | 4 | 631 | 674 | 368 | 34 | 357 | 357 | 279 | 279 | 470 | 712 | 736 | 48 | 4 |
| 30 | 200L | Siemens | 4 | 631 | 674 | 368 | 34 | 357 | 357 | 279 | 279 | 470 | 769 | 765 | 55 | 13 |
| 37 | 225S | Siemens | 4 | 631 | 674 | 368 | 34 | 357 | 357 | 299 | 299 | 470 | 789 | 808 | 60 | 4 |
| 45 | 225M | Siemens | 4 | 631 | 674 | 368 | 34 | 357 | 357 | 299 | 299 | 470 | 849 | 808 | 60 | 4 |
| 55 | 250M | Siemens | 4 | 631 | 674 | 368 | 34 | 357 | 357 | 279 | 279 | 470 | 957 | 860 | 65 | 4 |
| 75 | 280S | Siemens | 4 | 631 | 674 | 368 | 34 | 357 | 357 | 279 | 279 | 470 | 1014 | 883 | 75 | 4 |
| 11 | 160M | MMG-G | 4 | 631 | 674 | 368 | 34 | 357 | 357 | 279 | 279 | 470 | 608 | 691 | 42 | 3 |
| 15 | 160L | MMG-G | 4 | 631 | 674 | 368 | 34 | 357 | 357 | 279 | 279 | 470 | 652 | 691 | 42 | 3 |
| 18.5 | 180M | MMG-G | 4 | 631 | 674 | 368 | 34 | 357 | 357 | 279 | 279 | 470 | 672 | 717 | 48 | 4 |
| 22 | 180L | MMG-G | 4 | 631 | 674 | 368 | 34 | 357 | 357 | 279 | 279 | 470 | 710 | 717 | 48 | 4 |
| 30 | 200L | MMG-G | 4 | 631 | 674 | 368 | 34 | 357 | 357 | 279 | 279 | 470 | 770 | 782 | 55 | 13 |
| 37 | 225SC | MMG-G | 4 | 631 | 674 | 368 | 34 | 357 | 357 | 299 | 299 | 470 | 816 | 828 | 60 | 4 |
| 45 | 225MC | MMG-G | 4 | 631 | 674 | 368 | 34 | 357 | 357 | 299 | 299 | 470 | 841 | 828 | 60 | 4 |
| 55 | 250MC | MMG-G | 4 | 631 | 674 | 368 | 34 | 357 | 357 | 299 | 299 | 470 | 921 | 870 | 65 | 4 |
| 75 | 280SB | MMG-G | 4 | 631 | 674 | 368 | 34 | 357 | 357 | 299 | 299 | 470 | 1037.5 | 903 | 75 | 4 |

| Motor | | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] |
|---------|------------|---------|------|----------------------------|-----|----|-----|-----|-----|-----|---|-----|-----------------|--------------|-----------|------------------|-------|-------|----------------------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | Shipping volume [m³] |
| | | | | | | | | | | | | | | | | | | | |
| 15 | 160LB | MG | 4 | 1250 | 200 | 80 | 425 | 390 | 342 | 9 | 6 | 18 | - | 26 | 56 | 255 | 115 | 447 | 1.22 |
| 18.5 | 180M | Siemens | 4 | 1300 | 200 | 80 | - | 390 | 350 | 8.5 | 4 | 18 | - | 26 | 38 | 255 | 126 | 461 | 1.21 |
| 22 | 180L | Siemens | 4 | 1300 | 200 | 80 | - | 390 | 350 | 8.5 | 4 | 18 | - | 26 | 68 | 255 | 146 | 481 | 1.24 |
| 30 | 200L | Siemens | 4 | 1350 | 200 | 80 | 475 | 435 | 392 | 8.5 | 6 | 18 | - | 26 | 80 | 255 | 200 | 540 | 1.31 |
| 37 | 225S | Siemens | 4 | 1420 | 200 | 80 | - | 495 | 452 | 9 | 4 | 23 | - | 26 | 47 | 255 | 290 | 654 | 1.41 |
| 45 | 225M | Siemens | 4 | 1420 | 200 | 80 | - | 495 | 452 | 9 | 4 | 23 | - | 26 | 107 | 255 | 330 | 694 | 1.46 |
| 55 | 250M | Siemens | 4 | 1500 | 200 | 80 | - | 545 | 504 | 8.5 | 4 | 23 | - | 26 | 66 | 255 | 460 | 827 | 1.57 |
| 75 | 280S | Siemens | 4 | 1600 | 200 | 80 | 600 | 605 | 561 | 8.5 | 6 | 18 | - | 26 | 49 | 255 | 575 | 956 | 1.60 |
| 11 | 160M | MMG-G | 4 | 1250 | 200 | 80 | 425 | 390 | 342 | 9 | 6 | 18 | - | 26 | 9 | 255 | 130 | 385 | 1.570 |
| 15 | 160L | MMG-G | 4 | 1250 | 200 | 80 | 425 | 390 | 342 | 9 | 6 | 18 | - | 26 | 53 | 255 | 150 | 405 | 1.619 |
| 18.5 | 180M | MMG-G | 4 | 1300 | 200 | 80 | - | 390 | 350 | 8.5 | 4 | 18 | - | 26 | 24 | 255 | 195 | 450 | 1.643 |
| 22 | 180L | MMG-G | 4 | 1300 | 200 | 80 | - | 390 | 350 | 8.5 | 4 | 18 | - | 26 | 62 | 255 | 205 | 460 | 1.685 |

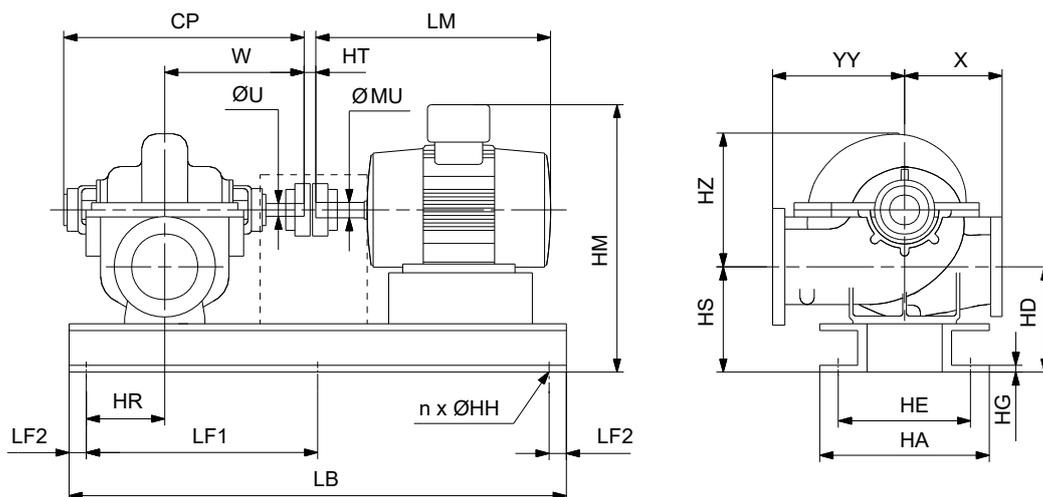
| P2 [kW] | Motor | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m ³] |
|------------|---------------|-------|------|----------------------------|-----|----|-----|-----|-----|-----|---|-----|--------------------|-----------------|--------------|------------------|-------|-------|---|
| | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | |
| 30 | 200L | MMG-G | 4 | 1350 | 200 | 80 | 475 | 435 | 392 | 8.5 | 6 | 18 | - | 26 | 81 | 255 | 285 | 540 | 1.815 |
| 37 | 225SC | MMG-G | 4 | 1420 | 200 | 80 | - | 495 | 452 | 9 | 4 | 23 | - | 26 | 48 | 255 | 350 | 605 | 1.933 |
| 45 | 225MC | MMG-G | 4 | 1420 | 200 | 80 | - | 495 | 452 | 9 | 4 | 23 | - | 26 | 73 | 255 | 360 | 615 | 1.963 |
| 55 | 250MC | MMG-G | 4 | 1500 | 200 | 80 | - | 545 | 504 | 8.5 | 4 | 23 | - | 26 | 73 | 255 | 480 | 735 | 2.131 |
| 75 | 280SB | MMG-G | 4 | 1600 | 200 | 80 | 600 | 605 | 557 | 9 | 6 | 18 | - | 26 | 89 | 255 | 621 | 876 | 2.337 |

LS 150-125-305



TM072634

LS 150-125-305 dimensional sketches



TM072172

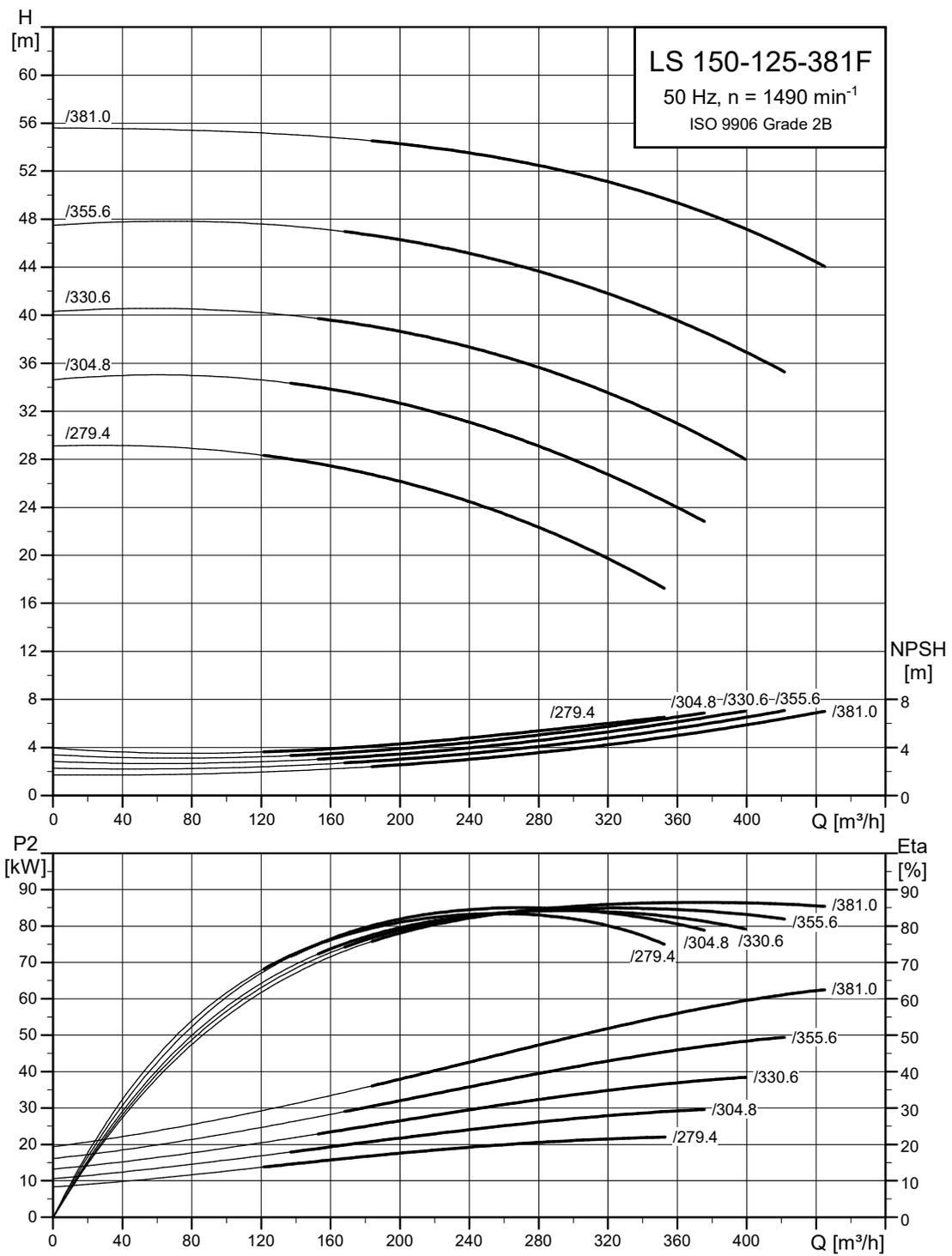
LS 150-125-305 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | | Motor dimensions [mm] | | | Distance between shaft ends [mm] | |
|---------|------------|---------|------|----------------------|--------------|-----|----|-----|-----|-----|-----|-----------------------|-----|-----|----------------------------------|----|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 5.5 | 132SB | MG | 4 | 775 | 775 | 419 | 34 | 330 | 330 | 285 | 285 | 475 | 459 | 770 | 38 | 5 |
| 7.5 | 132MB | MG | 4 | 775 | 775 | 419 | 34 | 330 | 330 | 285 | 285 | 475 | 509 | 770 | 38 | 5 |
| 11 | 160MB | MG | 4 | 775 | 775 | 419 | 34 | 330 | 330 | 285 | 285 | 475 | 581 | 725 | 42 | 12 |
| 15 | 160LB | MG | 4 | 775 | 775 | 419 | 34 | 330 | 330 | 285 | 285 | 475 | 655 | 725 | 42 | 12 |
| 18.5 | 180M | Siemens | 4 | 775 | 775 | 419 | 34 | 330 | 330 | 285 | 285 | 475 | 712 | 774 | 48 | 21 |
| 22 | 180L | Siemens | 4 | 775 | 775 | 419 | 34 | 330 | 330 | 285 | 285 | 475 | 712 | 774 | 48 | 21 |
| 30 | 200L | Siemens | 4 | 775 | 775 | 419 | 34 | 330 | 330 | 285 | 285 | 475 | 769 | 803 | 55 | 21 |
| 37 | 225S | Siemens | 4 | 775 | 775 | 419 | 34 | 330 | 330 | 305 | 305 | 475 | 789 | 826 | 60 | 30 |
| 5.5 | 132S | MMG-G | 4 | 775 | 775 | 419 | 34 | 330 | 330 | 285 | 285 | 475 | 466 | 699 | 38 | 5 |
| 7.5 | 132M | MMG-G | 4 | 775 | 775 | 419 | 34 | 330 | 330 | 285 | 285 | 475 | 504 | 699 | 38 | 5 |
| 11 | 160M | MMG-G | 4 | 775 | 775 | 419 | 34 | 330 | 330 | 285 | 285 | 475 | 608 | 729 | 42 | 12 |
| 15 | 160L | MMG-G | 4 | 775 | 775 | 419 | 34 | 330 | 330 | 285 | 285 | 475 | 652 | 729 | 42 | 12 |
| 18.5 | 180M | MMG-G | 4 | 775 | 775 | 419 | 34 | 330 | 330 | 285 | 285 | 475 | 672 | 755 | 48 | 21 |
| 22 | 180L | MMG-G | 4 | 775 | 775 | 419 | 34 | 330 | 330 | 285 | 285 | 475 | 710 | 755 | 48 | 21 |
| 30 | 200L | MMG-G | 4 | 775 | 775 | 419 | 34 | 330 | 330 | 285 | 285 | 475 | 770 | 820 | 55 | 21 |
| 37 | 225SC | MMG-G | 4 | 775 | 775 | 419 | 34 | 330 | 330 | 305 | 305 | 475 | 816 | 866 | 60 | 30 |

| Motor | | | | Base frame dimensions [mm] | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] | |
|---------|------------|---------|------|----------------------------|-----|----|-----|-----|-----|-----|---|---------------|-----------------|--------------|------------------|------|-------|----------------------|-------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | |
| | | | | | | | | | | | | | | | | | | | |
| 5.5 | 132SB | MG | 4 | 1160 | 200 | 60 | 380 | 330 | 268 | 11 | 6 | 23 | 96 | 96 | 40 | 268 | 54 | 386 | 1.17 |
| 7.5 | 132MB | MG | 4 | 1160 | 200 | 60 | 380 | 330 | 268 | 11 | 6 | 23 | 96 | 96 | 40 | 268 | 68 | 400 | 1.21 |
| 11 | 160MB | MG | 4 | 1300 | 200 | 60 | 450 | 390 | 346 | 8.5 | 6 | 18 | 96 | 96 | - | 268 | 95 | 442 | 1.18 |
| 15 | 160LB | MG | 4 | 1300 | 200 | 60 | 450 | 390 | 346 | 8.5 | 6 | 18 | 96 | 96 | 56 | 268 | 115 | 462 | 1.22 |
| 18.5 | 180M | Siemens | 4 | 1340 | 200 | 60 | 470 | 400 | 360 | 8.5 | 6 | 18 | 96 | 96 | 28 | 268 | 126 | 477 | 1.25 |
| 22 | 180L | Siemens | 4 | 1340 | 200 | 60 | 470 | 400 | 360 | 8.5 | 6 | 18 | 96 | 96 | 58 | 268 | 146 | 497 | 1.27 |
| 30 | 200L | Siemens | 4 | 1380 | 200 | 60 | 490 | 425 | 381 | 8.5 | 6 | 18 | 96 | 96 | 66 | 268 | 200 | 548 | 1.33 |
| 37 | 225S | Siemens | 4 | 1450 | 200 | 60 | 525 | 465 | 421 | 8.5 | 6 | 18 | 96 | 96 | 47 | 268 | 290 | 656 | 1.43 |
| 5.5 | 132S | MMG-G | 4 | 1160 | 200 | 60 | 380 | 330 | 268 | 11 | 6 | 23 | 96 | 96 | - | 268 | 76 | 344 | 1.498 |
| 7.5 | 132M | MMG-G | 4 | 1160 | 200 | 60 | 380 | 330 | 268 | 11 | 6 | 23 | 96 | 96 | 28 | 268 | 93 | 361 | 1.528 |
| 11 | 160M | MMG-G | 4 | 1300 | 200 | 60 | 450 | 390 | 346 | 8.5 | 6 | 18 | 96 | 96 | - | 268 | 130 | 398 | 1.647 |
| 15 | 160L | MMG-G | 4 | 1300 | 200 | 60 | 450 | 390 | 346 | 8.5 | 6 | 18 | 96 | 96 | 43 | 268 | 150 | 418 | 1.694 |

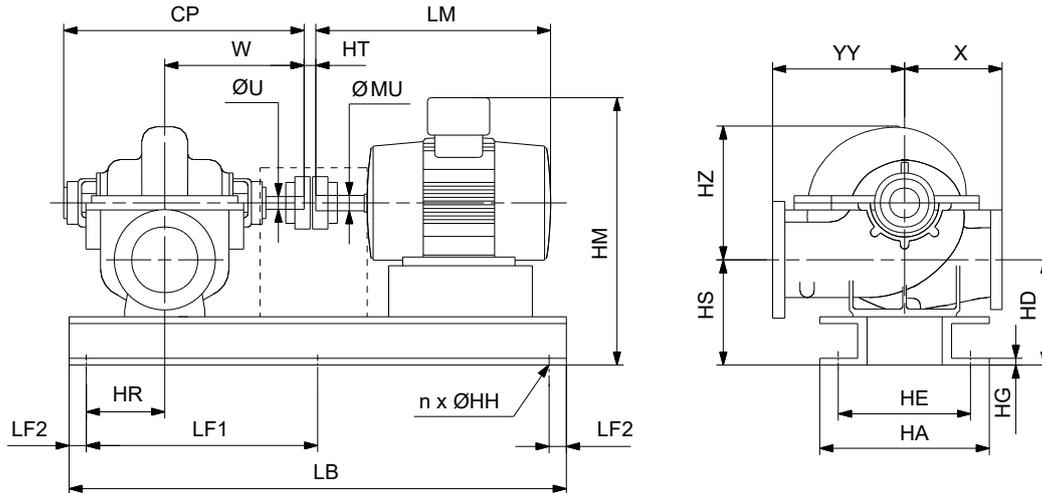
| P2 [kW] | Motor | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m ³] |
|------------|---------------|-------|------|----------------------------|-----|----|-----|-----|-----|-----|---|-----|--------------------|-----------------|--------------|------------------|-------|-------|---|
| | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | |
| 18.5 | 180M | MMG-G | 4 | 1340 | 200 | 60 | 470 | 400 | 360 | 8.5 | 6 | 18 | 96 | 96 | 32 | 268 | 195 | 463 | 1.724 |
| 22 | 180L | MMG-G | 4 | 1340 | 200 | 60 | 470 | 400 | 360 | 8.5 | 6 | 18 | 96 | 96 | 70 | 268 | 205 | 473 | 1.765 |
| 30 | 200L | MMG-G | 4 | 1380 | 200 | 60 | 490 | 425 | 381 | 8.5 | 6 | 18 | 96 | 96 | 90 | 268 | 285 | 553 | 1.928 |
| 37 | 225SC | MMG-G | 4 | 1450 | 200 | 60 | 525 | 465 | 421 | 8.5 | 6 | 18 | 96 | 96 | 75 | 268 | 350 | 618 | 2.068 |

LS 150-125-381



TM072635

LS 150-125-381 dimensional sketches



TM072172

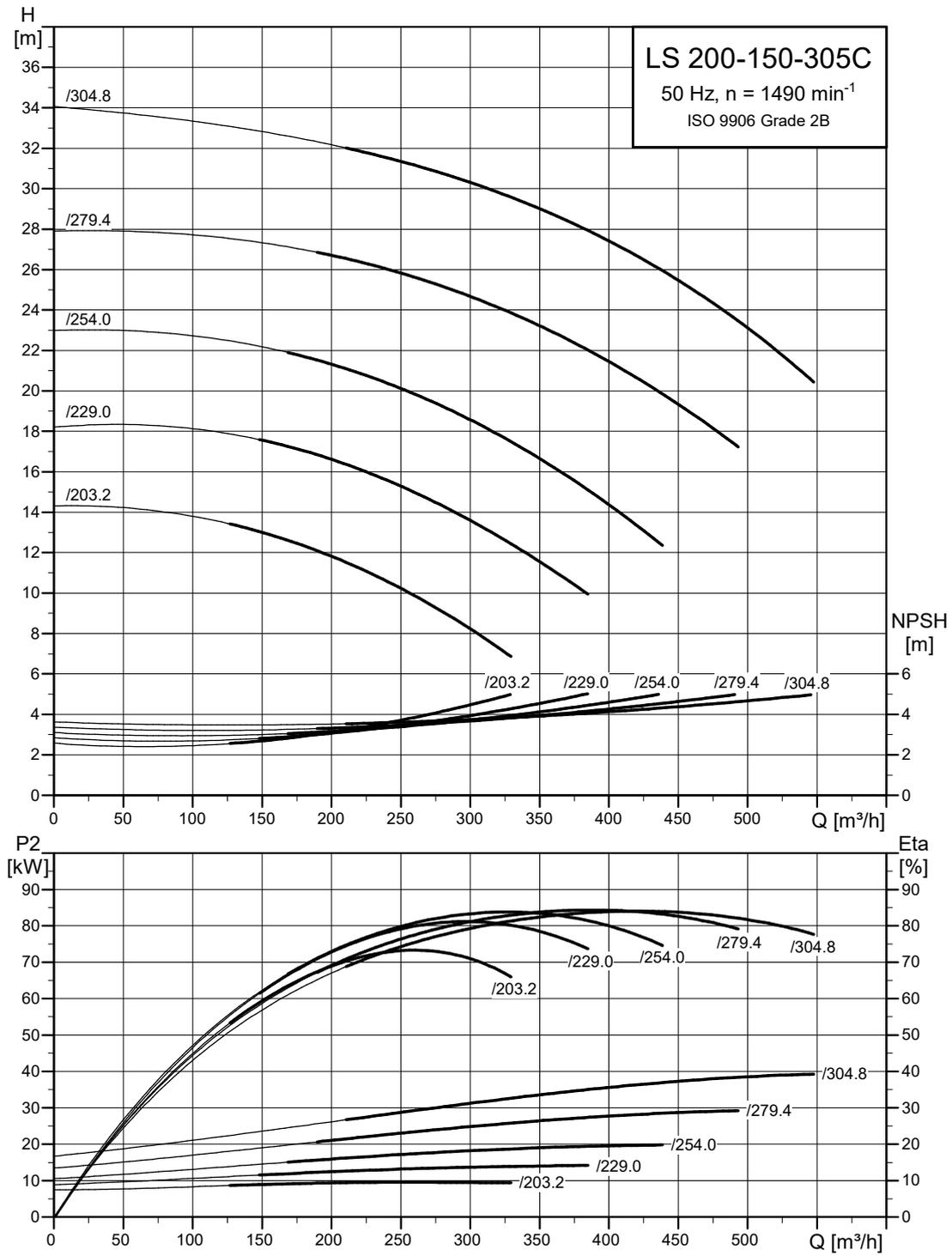
LS 150-125-381 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | | Motor dimensions [mm] | | | Distance between shaft ends [mm] | |
|---------|------------|---------|------|----------------------|--------------|-----|----|-----|-----|-----|-----|-----------------------|--------|-----|----------------------------------|----|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 15 | 160LB | MG | 4 | 801 | 801 | 432 | 34 | 356 | 381 | 285 | 285 | 550 | 655 | 766 | 42 | 12 |
| 18.5 | 180M | Siemens | 4 | 801 | 801 | 432 | 34 | 356 | 381 | 285 | 285 | 550 | 712 | 816 | 48 | 21 |
| 22 | 180L | Siemens | 4 | 801 | 801 | 432 | 34 | 356 | 381 | 285 | 285 | 550 | 712 | 816 | 48 | 21 |
| 30 | 200L | Siemens | 4 | 801 | 801 | 432 | 34 | 356 | 381 | 305 | 305 | 550 | 769 | 865 | 55 | 21 |
| 37 | 225S | Siemens | 4 | 801 | 801 | 432 | 34 | 356 | 381 | 305 | 305 | 550 | 789 | 888 | 60 | 30 |
| 45 | 225M | Siemens | 4 | 801 | 801 | 432 | 34 | 356 | 381 | 305 | 305 | 550 | 849 | 888 | 60 | 30 |
| 55 | 250M | Siemens | 4 | 801 | 801 | 432 | 34 | 356 | 381 | 305 | 305 | 550 | 957 | 960 | 65 | 30 |
| 75 | 280S | Siemens | 4 | 801 | 801 | 432 | 34 | 356 | 381 | 305 | 305 | 550 | 1014 | 983 | 75 | 40 |
| 15 | 160L | MMG-G | 4 | 801 | 801 | 432 | 34 | 356 | 381 | 285 | 285 | 550 | 652 | 771 | 42 | 12 |
| 18.5 | 180M | MMG-G | 4 | 801 | 801 | 432 | 34 | 356 | 381 | 285 | 285 | 550 | 672 | 797 | 48 | 21 |
| 22 | 180L | MMG-G | 4 | 801 | 801 | 432 | 34 | 356 | 381 | 285 | 285 | 550 | 710 | 797 | 48 | 21 |
| 30 | 200L | MMG-G | 4 | 801 | 801 | 432 | 34 | 356 | 381 | 305 | 305 | 550 | 770 | 882 | 55 | 21 |
| 37 | 225SC | MMG-G | 4 | 801 | 801 | 432 | 34 | 356 | 381 | 305 | 305 | 550 | 816 | 908 | 60 | 30 |
| 45 | 225MC | MMG-G | 4 | 801 | 801 | 432 | 34 | 356 | 381 | 305 | 305 | 550 | 841 | 908 | 60 | 30 |
| 55 | 250MC | MMG-G | 4 | 801 | 801 | 432 | 34 | 356 | 381 | 305 | 305 | 550 | 921 | 950 | 65 | 30 |
| 75 | 280SB | MMG-G | 4 | 801 | 801 | 432 | 34 | 356 | 381 | 305 | 305 | 550 | 1037.5 | 983 | 75 | 40 |

| Motor | | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] |
|---------|------------|---------|------|----------------------------|-----|----|-----|-----|-----|-----|---|-----|-----------------|--------------|-----------|------------------|-------|-------|----------------------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | Shipping volume [m³] |
| | | | | | | | | | | | | | | | | | | | |
| 18.5 | 180M | Siemens | 4 | 1350 | 200 | 60 | 475 | 390 | 346 | 8.5 | 6 | 18 | 109 | 109 | 31 | 318 | 126 | 528 | 1.48 |
| 22 | 180L | Siemens | 4 | 1350 | 200 | 60 | 475 | 390 | 346 | 8.5 | 6 | 18 | 109 | 109 | 61 | 318 | 146 | 548 | 1.51 |
| 30 | 200L | Siemens | 4 | 1390 | 200 | 60 | - | 445 | 400 | 9 | 4 | 23 | 109 | 109 | 69 | 318 | 200 | 616 | 1.58 |
| 37 | 225S | Siemens | 4 | 1460 | 200 | 60 | - | 495 | 452 | 9 | 4 | 23 | 109 | 109 | 50 | 318 | 290 | 718 | 1.68 |
| 45 | 225M | Siemens | 4 | 1460 | 200 | 60 | - | 495 | 452 | 9 | 4 | 23 | 109 | 109 | 110 | 318 | 330 | 758 | 1.74 |
| 55 | 250M | Siemens | 4 | 1540 | 200 | 60 | 570 | 545 | 500 | 9 | 6 | 23 | 109 | 109 | 69 | 318 | 460 | 895 | 1.90 |
| 75 | 280S | Siemens | 4 | 1650 | 200 | 60 | 625 | 610 | 566 | 9 | 6 | 23 | 109 | 109 | 42 | 318 | 575 | 1024 | 2.03 |
| 15 | 160L | MMG-G | 4 | 1300 | 200 | 60 | 450 | 390 | 346 | 8.5 | 6 | 18 | 109 | 109 | 56 | 318 | 150 | 468 | 1.985 |
| 18.5 | 180M | MMG-G | 4 | 1350 | 200 | 60 | 475 | 390 | 346 | 8.5 | 6 | 18 | 109 | 109 | 35 | 318 | 195 | 513 | 2.020 |
| 22 | 180L | MMG-G | 4 | 1350 | 200 | 60 | 475 | 390 | 346 | 8.5 | 6 | 18 | 109 | 109 | 73 | 318 | 205 | 523 | 2.067 |
| 30 | 200L | MMG-G | 4 | 1390 | 200 | 60 | - | 445 | 400 | 9 | 4 | 23 | 109 | 109 | 93 | 318 | 285 | 603 | 2.225 |

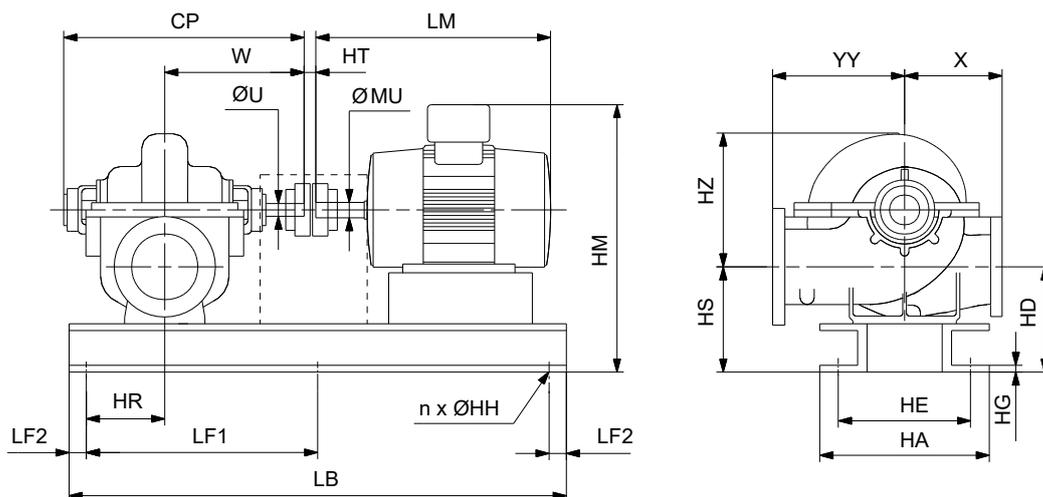
| P2 [kW] | Motor | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m ³] |
|------------|---------------|-------|------|----------------------------|-----|----|-----|-----|-----|----|---|-----|--------------------|-----------------|--------------|------------------|-------|-------|---|
| | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | |
| 37 | 225SC | MMG-G | 4 | 1460 | 200 | 60 | - | 495 | 452 | 9 | 4 | 23 | 109 | 109 | 78 | 318 | 350 | 668 | 2.344 |
| 45 | 225MC | MMG-G | 4 | 1460 | 200 | 60 | - | 495 | 452 | 9 | 4 | 23 | 109 | 109 | 103 | 318 | 360 | 678 | 2.377 |
| 55 | 250MC | MMG-G | 4 | 1540 | 200 | 60 | 570 | 545 | 500 | 9 | 6 | 23 | 109 | 109 | 103 | 318 | 480 | 798 | 2.564 |
| 75 | 280SB | MMG-G | 4 | 1650 | 200 | 60 | 625 | 610 | 566 | 9 | 6 | 23 | 109 | 109 | 120 | 318 | 621 | 939 | 2.804 |

LS 200-150-305



TM072637

LS 200-150-305 dimensional sketches



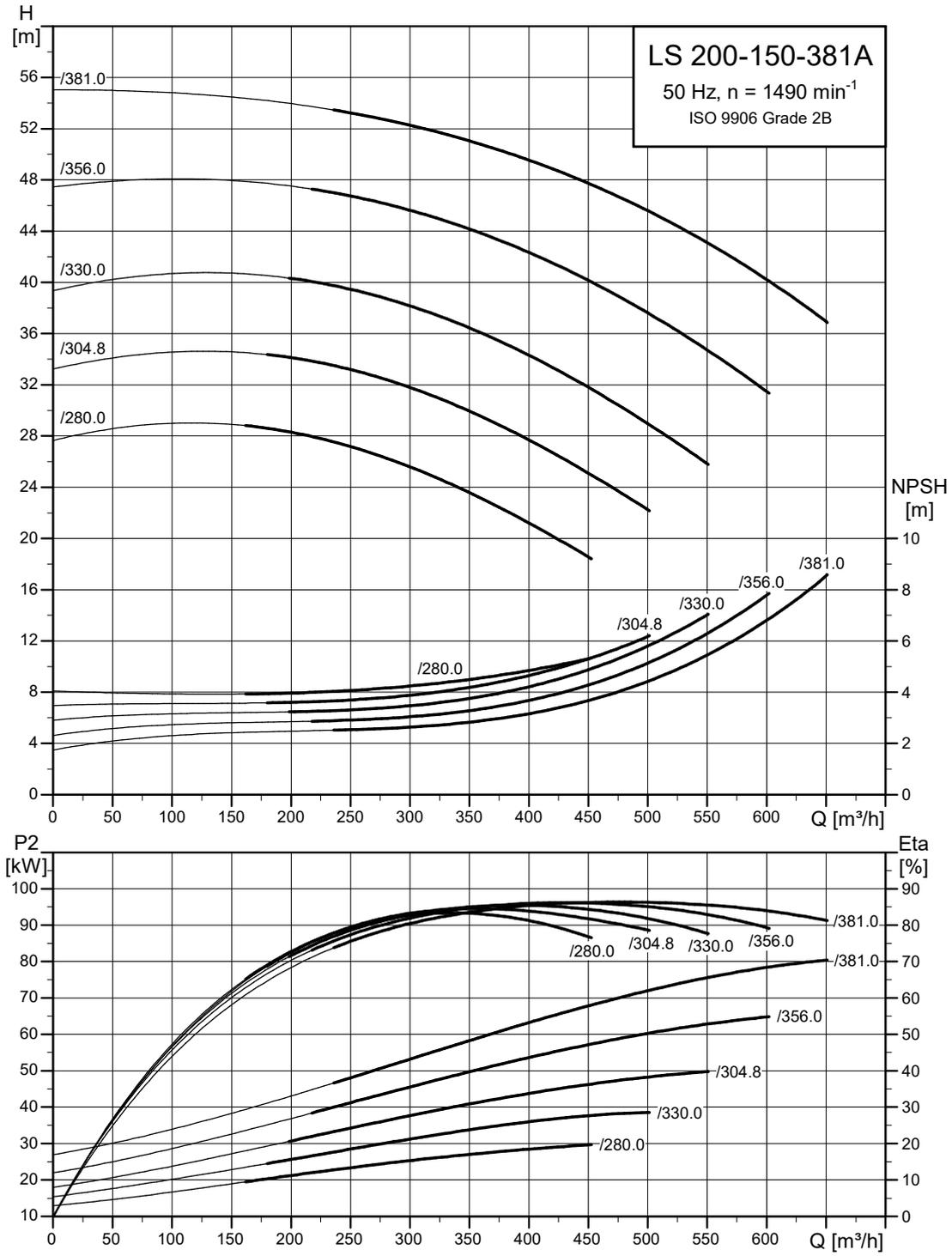
TM072172

LS 200-150-305 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | | Motor dimensions [mm] | | | Distance between shaft ends [mm] | |
|---------|------------|---------|------|----------------------|--------------|-----|----|-----|-----|-----|-----|-----------------------|-----|-----|----------------------------------|----|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 11 | 160MB | MG | 4 | 801 | 801 | 432 | 34 | 356 | 406 | 305 | 305 | 530 | 581 | 763 | 42 | 12 |
| 15 | 160LB | MG | 4 | 801 | 801 | 432 | 34 | 356 | 406 | 305 | 305 | 530 | 655 | 763 | 42 | 12 |
| 18.5 | 180M | Siemens | 4 | 801 | 801 | 432 | 34 | 356 | 406 | 305 | 305 | 530 | 712 | 832 | 48 | 21 |
| 22 | 180L | Siemens | 4 | 801 | 801 | 432 | 34 | 356 | 406 | 305 | 305 | 530 | 712 | 832 | 48 | 21 |
| 30 | 200L | Siemens | 4 | 801 | 801 | 432 | 34 | 356 | 406 | 305 | 305 | 530 | 769 | 841 | 55 | 21 |
| 37 | 225S | Siemens | 4 | 801 | 801 | 432 | 34 | 356 | 406 | 305 | 305 | 530 | 789 | 884 | 60 | 30 |
| 45 | 225M | Siemens | 4 | 801 | 801 | 432 | 34 | 356 | 406 | 305 | 305 | 530 | 849 | 884 | 60 | 30 |
| 11 | 160M | MMG-G | 4 | 801 | 801 | 432 | 34 | 356 | 406 | 305 | 305 | 530 | 608 | 787 | 42 | 12 |
| 15 | 160L | MMG-G | 4 | 801 | 801 | 432 | 34 | 356 | 406 | 305 | 305 | 530 | 652 | 787 | 42 | 12 |
| 18.5 | 180M | MMG-G | 4 | 801 | 801 | 432 | 34 | 356 | 406 | 305 | 305 | 530 | 672 | 813 | 48 | 21 |
| 22 | 180L | MMG-G | 4 | 801 | 801 | 432 | 34 | 356 | 406 | 305 | 305 | 530 | 710 | 813 | 48 | 21 |
| 30 | 200L | MMG-G | 4 | 801 | 801 | 432 | 34 | 356 | 406 | 305 | 305 | 530 | 770 | 878 | 55 | 21 |
| 37 | 225SC | MMG-G | 4 | 801 | 801 | 432 | 34 | 356 | 406 | 305 | 305 | 530 | 816 | 904 | 60 | 30 |
| 45 | 225MC | MMG-G | 4 | 801 | 801 | 432 | 34 | 356 | 406 | 305 | 305 | 530 | 841 | 904 | 60 | 30 |

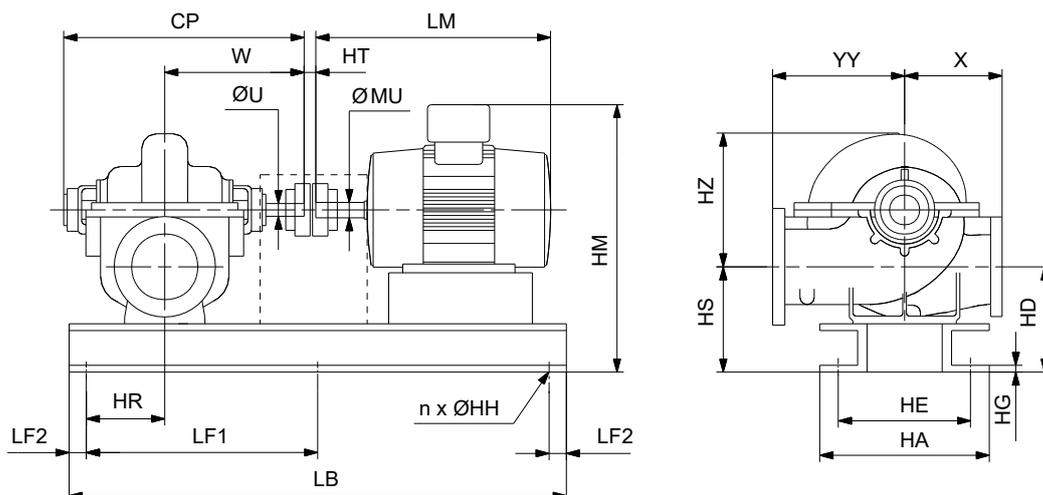
| Motor | | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] |
|---------|------------|---------|------|----------------------------|-----|----|-----|-----|-----|-----|---|-----|-----------------|--------------|-----------|------------------|-------|-------|----------------------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | |
| | | | | | | | | | | | | | | | | | | | 11 |
| 15 | 160LB | MG | 4 | 1300 | 200 | 60 | 450 | 390 | 346 | 8.5 | 6 | 18 | 109 | 109 | 68 | 411 | 115 | 617 | 1.48 |
| 18.5 | 180M | Siemens | 4 | 1350 | 200 | 60 | 475 | 395 | 347 | 9 | 6 | 18 | 109 | 109 | 31 | 411 | 126 | 631 | 1.52 |
| 22 | 180L | Siemens | 4 | 1350 | 200 | 60 | 475 | 395 | 347 | 9 | 6 | 18 | 109 | 109 | 61 | 411 | 146 | 651 | 1.55 |
| 30 | 200L | Siemens | 4 | 1400 | 200 | 60 | 500 | 425 | 381 | 8.5 | 6 | 18 | 109 | 109 | 59 | 411 | 200 | 697 | 1.58 |
| 37 | 225S | Siemens | 4 | 1460 | 200 | 60 | 530 | 465 | 417 | 9 | 6 | 18 | 109 | 109 | 50 | 411 | 290 | 801 | 1.72 |
| 45 | 225M | Siemens | 4 | 1460 | 200 | 60 | 530 | 465 | 417 | 9 | 6 | 18 | 109 | 109 | 110 | 411 | 330 | 841 | 1.78 |
| 11 | 160M | MMG-G | 4 | 1300 | 200 | 60 | 450 | 390 | 346 | 8.5 | 6 | 18 | 109 | 109 | 12 | 411 | 130 | 541 | 1.977 |
| 15 | 160L | MMG-G | 4 | 1300 | 200 | 60 | 450 | 390 | 346 | 8.5 | 6 | 18 | 109 | 109 | 56 | 411 | 150 | 561 | 2.033 |
| 18.5 | 180M | MMG-G | 4 | 1350 | 200 | 60 | 475 | 395 | 347 | 9 | 6 | 18 | 109 | 109 | 35 | 411 | 195 | 606 | 2.069 |
| 22 | 180L | MMG-G | 4 | 1350 | 200 | 60 | 475 | 395 | 347 | 9 | 6 | 18 | 109 | 109 | 73 | 411 | 205 | 616 | 2.117 |
| 30 | 200L | MMG-G | 4 | 1400 | 200 | 60 | 500 | 425 | 381 | 8.5 | 6 | 18 | 109 | 109 | 83 | 411 | 285 | 696 | 2.272 |
| 37 | 225SC | MMG-G | 4 | 1460 | 200 | 60 | 530 | 465 | 417 | 9 | 6 | 18 | 109 | 109 | 78 | 411 | 350 | 761 | 2.393 |
| 45 | 225MC | MMG-G | 4 | 1460 | 200 | 60 | 530 | 465 | 417 | 9 | 6 | 18 | 109 | 109 | 103 | 411 | 360 | 771 | 2.426 |

LS 200-150-381



TM072639

LS 200-150-381 dimensional sketches



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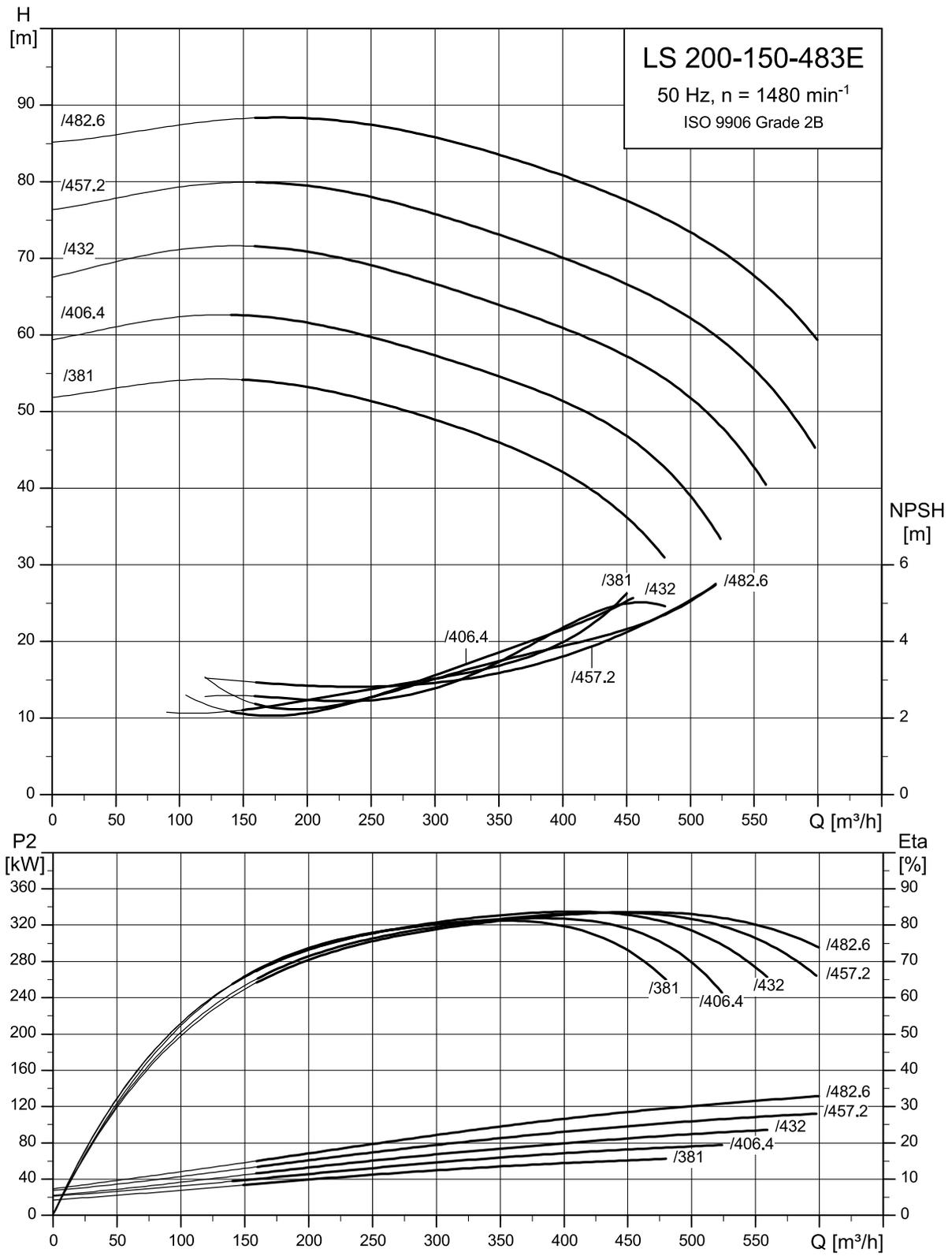
LS 200-150-381 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | | Motor dimensions [mm] | | | | Distance between shaft ends [mm] |
|---------|------------|---------|------|----------------------|--------------|-----|-------|-----|-----|-----|-----|-----------------------|--------|------|-----|----------------------------------|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 18.5 | 180M | Siemens | 4 | 929 | 929 | 508 | 44.45 | 381 | 406 | 324 | 324 | 605 | 712 | 870 | 48 | 4 |
| 22 | 180L | Siemens | 4 | 929 | 929 | 508 | 44.45 | 381 | 406 | 324 | 324 | 605 | 712 | 870 | 48 | 4 |
| 30 | 200L | Siemens | 4 | 929 | 929 | 508 | 44.45 | 381 | 406 | 324 | 324 | 605 | 769 | 919 | 55 | 4 |
| 37 | 225S | Siemens | 4 | 929 | 929 | 508 | 44.45 | 381 | 406 | 324 | 324 | 605 | 789 | 922 | 60 | 7 |
| 45 | 225M | Siemens | 4 | 929 | 929 | 508 | 44.45 | 381 | 406 | 324 | 324 | 605 | 849 | 922 | 60 | 7 |
| 55 | 250M | Siemens | 4 | 929 | 929 | 508 | 44.45 | 381 | 406 | 324 | 324 | 605 | 957 | 1074 | 65 | 7 |
| 75 | 280S | Siemens | 4 | 929 | 929 | 508 | 44.45 | 381 | 406 | 324 | 324 | 605 | 1014 | 1037 | 75 | 17 |
| 90 | 280M | Siemens | 4 | 929 | 929 | 508 | 44.45 | 381 | 406 | 324 | 324 | 605 | 1069 | 1037 | 75 | 17 |
| 110 | 315S | Siemens | 4 | 929 | 929 | 508 | 44.45 | 381 | 406 | 324 | 324 | 605 | 1127 | 1203 | 80 | 17 |
| 18.5 | 180M | MMG-G | 4 | 929 | 929 | 508 | 44.45 | 381 | 406 | 324 | 324 | 605 | 672 | 871 | 48 | 4 |
| 22 | 180L | MMG-G | 4 | 929 | 929 | 508 | 44.45 | 381 | 406 | 324 | 324 | 605 | 710 | 871 | 48 | 4 |
| 30 | 200L | MMG-G | 4 | 929 | 929 | 508 | 44.45 | 381 | 406 | 324 | 324 | 605 | 770 | 936 | 55 | 4 |
| 37 | 225SC | MMG-G | 4 | 929 | 929 | 508 | 44.45 | 381 | 406 | 324 | 324 | 605 | 816 | 962 | 60 | 7 |
| 45 | 225MC | MMG-G | 4 | 929 | 929 | 508 | 44.45 | 381 | 406 | 324 | 324 | 605 | 841 | 962 | 60 | 7 |
| 55 | 250MC | MMG-G | 4 | 929 | 929 | 508 | 44.45 | 381 | 406 | 324 | 324 | 605 | 921 | 1004 | 65 | 7 |
| 75 | 280SB | MMG-G | 4 | 929 | 929 | 508 | 44.45 | 381 | 406 | 324 | 324 | 605 | 1037.5 | 1037 | 75 | 17 |
| 90 | 280MB | MMG-G | 4 | 929 | 929 | 508 | 44.45 | 381 | 406 | 324 | 324 | 605 | 1087.5 | 1037 | 75 | 17 |
| 110 | 315SB | MMG-G | 4 | 929 | 929 | 508 | 44.45 | 381 | 406 | 324 | 324 | 605 | 1246 | 1132 | 80 | 17 |

| Motor | | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] |
|---------|------------|---------|------|----------------------------|-----|-----|-----|-----|-----|-----|---|-----|-----------------|--------------|-----------|------------------|-------|-------|----------------------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | |
| | | | | | | | | | | | | | | | | | | | |
| 22 | 180L | Siemens | 4 | 1500 | 200 | 130 | 550 | 390 | 346 | 8.5 | 6 | 18 | 91 | 91 | 40 | 455 | 146 | 707 | 1.82 |
| 30 | 200L | Siemens | 4 | 1530 | 200 | 130 | 565 | 425 | 377 | 9 | 6 | 18 | 91 | 91 | 58 | 455 | 200 | 764 | 1.88 |
| 37 | 225S | Siemens | 4 | 1590 | 200 | 130 | 595 | 465 | 421 | 8.5 | 6 | 18 | 91 | 91 | 42 | 455 | 290 | 862 | 1.94 |
| 45 | 225M | Siemens | 4 | 1590 | 200 | 130 | 595 | 465 | 421 | 8.5 | 6 | 18 | 91 | 91 | 102 | 455 | 330 | 902 | 2.00 |
| 55 | 250M | Siemens | 4 | 1660 | 200 | 130 | 630 | 555 | 493 | 11 | 6 | 23 | 91 | 91 | 71 | 455 | 460 | 1043 | 2.34 |
| 75 | 280S | Siemens | 4 | 1750 | 200 | 130 | 675 | 605 | 560 | 9 | 6 | 23 | 91 | 91 | 64 | 455 | 575 | 1176 | 2.36 |
| 90 | 280M | Siemens | 4 | 1750 | 200 | 130 | 675 | 605 | 560 | 9 | 6 | 23 | 91 | 91 | 174 | 455 | 675 | 1276 | 2.48 |
| 110 | 315S | Siemens | 4 | 1850 | 200 | 130 | 725 | 665 | 603 | 11 | 6 | 23 | 91 | 91 | 86 | 455 | 810 | 1412 | 2.81 |
| 18.5 | 180M | MMG-G | 4 | 1500 | 200 | 130 | 550 | 390 | 346 | 8.5 | 6 | 18 | 91 | 91 | 14 | 455 | 195 | 650 | 2.441 |
| 22 | 180L | MMG-G | 4 | 1500 | 200 | 130 | 550 | 390 | 346 | 8.5 | 6 | 18 | 91 | 91 | 52 | 455 | 205 | 660 | 2.493 |
| 30 | 200L | MMG-G | 4 | 1530 | 200 | 130 | 565 | 425 | 377 | 9 | 6 | 18 | 91 | 91 | 82 | 455 | 285 | 740 | 2.591 |

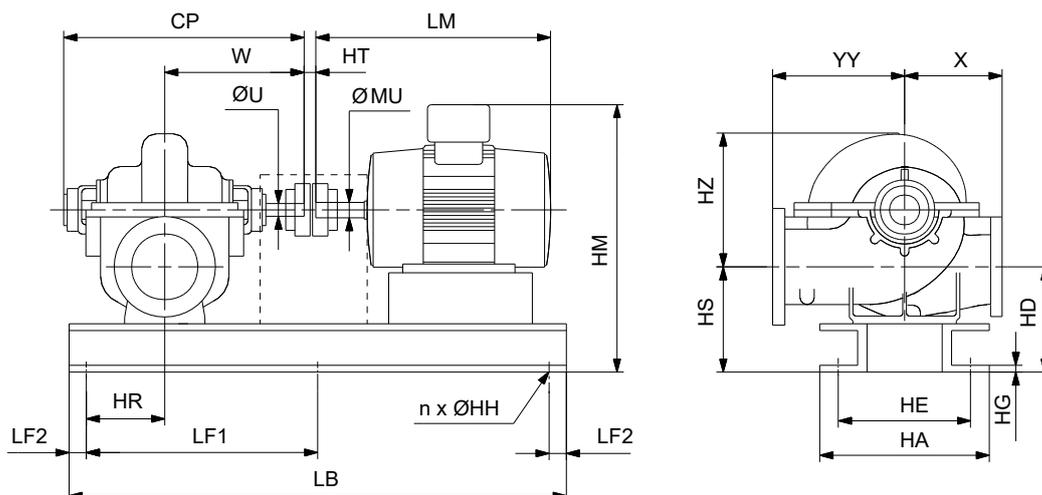
| P2 [kW] | Motor | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m ³] |
|------------|---------------|-------|------|----------------------------|-----|-----|-----|-----|-----|-----|---|-----|--------------------|-----------------|--------------|------------------|-------|-------|---|
| | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | |
| 37 | 225SC | MMG-G | 4 | 1590 | 200 | 130 | 595 | 465 | 421 | 8.5 | 6 | 18 | 91 | 91 | 71 | 455 | 350 | 805 | 2.712 |
| 45 | 225MC | MMG-G | 4 | 1590 | 200 | 130 | 595 | 465 | 421 | 8.5 | 6 | 18 | 91 | 91 | 96 | 455 | 360 | 815 | 2.748 |
| 55 | 250MC | MMG-G | 4 | 1660 | 200 | 130 | 630 | 555 | 493 | 11 | 6 | 23 | 91 | 91 | 106 | 455 | 480 | 935 | 2.954 |
| 75 | 280SB | MMG-G | 4 | 1750 | 200 | 130 | 675 | 605 | 560 | 9 | 6 | 23 | 91 | 91 | 142 | 455 | 621 | 1076 | 3.217 |
| 90 | 280MB | MMG-G | 4 | 1750 | 200 | 130 | 675 | 605 | 560 | 9 | 6 | 23 | 91 | 91 | 192 | 455 | 706 | 1161 | 3.648 |
| 110 | 315SB | MMG-G | 4 | 1850 | 200 | 130 | 725 | 665 | 617 | 8 | 6 | 23 | 91 | 91 | 251 | 455 | 920 | 1375 | 4.153 |

LS 200-150-483



TM083149

LS 200-150-483 dimensional sketches



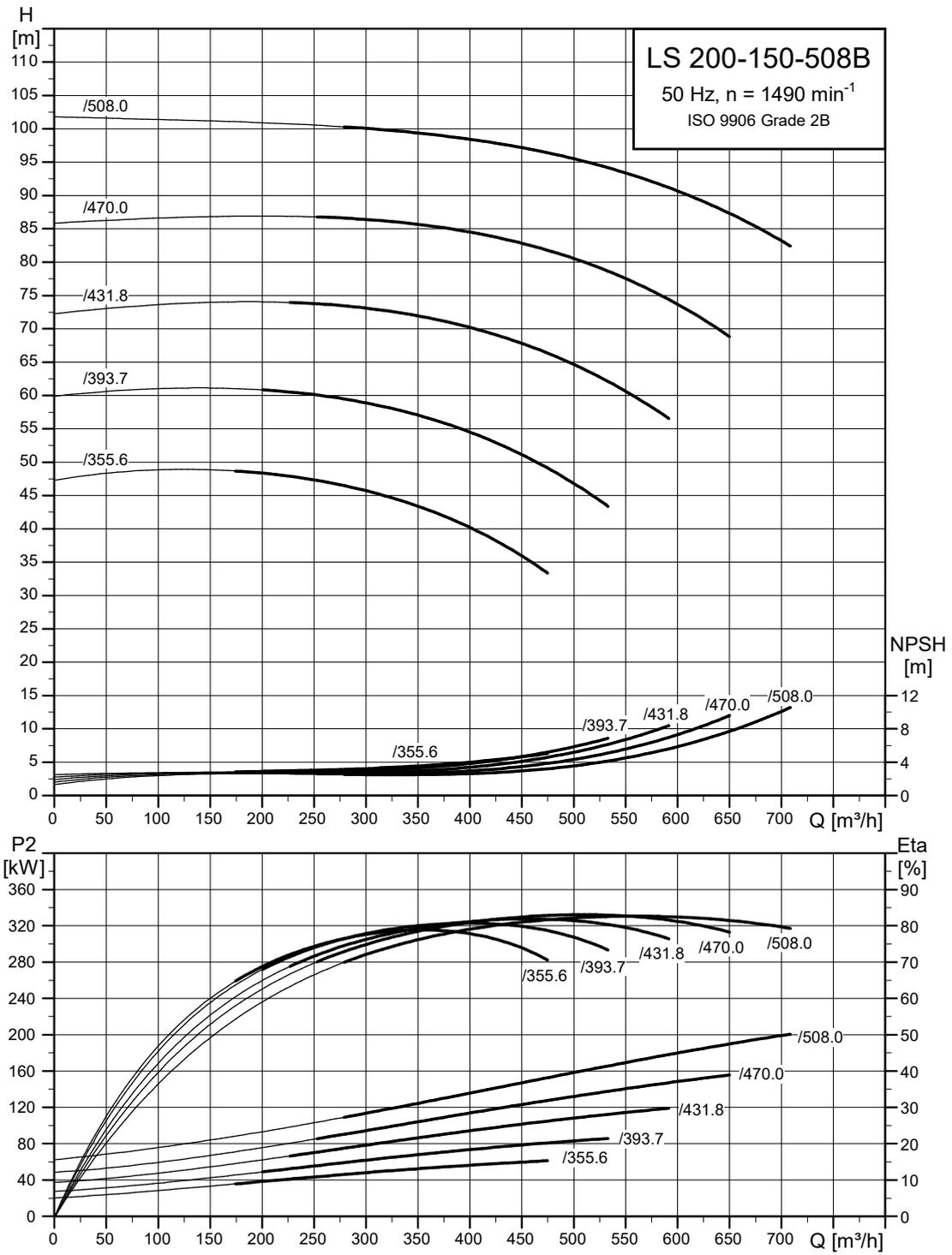
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LS 200-150-483 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | | Motor dimensions [mm] | | | Distance between shaft ends [mm] | |
|---------|------------|---------|------|----------------------|--------------|-----|-------|-----|-----|-----|-----|-----------------------|--------|------|----------------------------------|----|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 55 | 250M | Siemens | 4 | 888 | 888 | 489 | 44.45 | 432 | 432 | 311 | 311 | 615 | 957 | 982 | 65 | 4 |
| 75 | 280S | Siemens | 4 | 888 | 888 | 489 | 44.45 | 432 | 432 | 311 | 311 | 615 | 1014 | 1005 | 75 | 13 |
| 90 | 280M | Siemens | 4 | 888 | 888 | 489 | 44.45 | 432 | 432 | 311 | 311 | 615 | 1069 | 1005 | 75 | 13 |
| 110 | 315S | Siemens | 4 | 899 | 899 | 489 | 50.80 | 432 | 432 | 371 | 371 | 615 | 1127 | 1171 | 80 | 13 |
| 132 | 315MA | Siemens | 4 | 899 | 899 | 489 | 50.80 | 432 | 432 | 371 | 371 | 615 | 1127 | 1171 | 80 | 13 |
| 160 | 315L | Siemens | 4 | 899 | 899 | 489 | 50.80 | 432 | 432 | 371 | 371 | 615 | 1357 | 1171 | 80 | 13 |
| 55 | 250MC | MMG-G | 4 | 888 | 888 | 489 | 44.45 | 432 | 432 | 311 | 311 | 615 | 921 | 972 | 65 | 4 |
| 75 | 280SB | MMG-G | 4 | 888 | 888 | 489 | 44.45 | 432 | 432 | 311 | 311 | 615 | 1037.5 | 1005 | 75 | 13 |
| 90 | 280MB | MMG-G | 4 | 888 | 888 | 489 | 44.45 | 432 | 432 | 311 | 311 | 615 | 1087.5 | 1005 | 75 | 13 |
| 110 | 315SB | MMG-G | 4 | 899 | 899 | 489 | 50.80 | 432 | 432 | 371 | 371 | 615 | 1246 | 1160 | 80 | 13 |
| 132 | 315MB | MMG-G | 4 | 899 | 899 | 489 | 50.80 | 432 | 432 | 371 | 371 | 615 | 1296 | 1160 | 80 | 13 |
| 160 | 315LB | MMG-G | 4 | 899 | 899 | 489 | 50.80 | 432 | 432 | 371 | 371 | 615 | 1396 | 1160 | 80 | 13 |

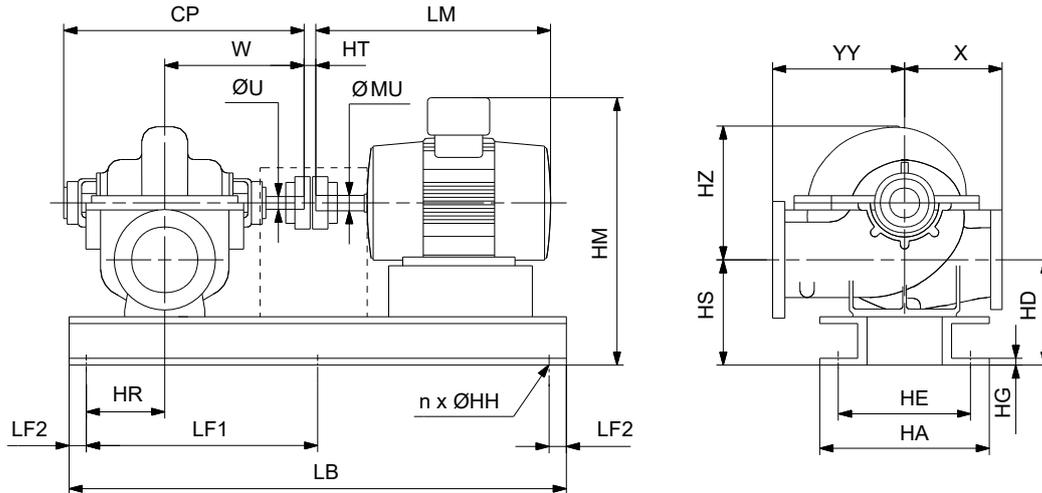
| Motor | | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] |
|---------|------------|---------|------|----------------------------|-----|----|-----|-----|-----|----|---|-----|-----------------|--------------|-----------|------------------|-------|-------|----------------------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | Shipping volume [m³] |
| | | | | | | | | | | | | | | | | | | | |
| 75 | 280S | Siemens | 4 | 1673 | 200 | 80 | 637 | 605 | 560 | 9 | 6 | 23 | 119 | 119 | 69 | 534 | 575 | 1249 | 2.22 |
| 90 | 280M | Siemens | 4 | 1673 | 200 | 80 | 637 | 605 | 560 | 9 | 6 | 23 | 119 | 119 | 179 | 534 | 675 | 1349 | 2.35 |
| 110 | 315S | Siemens | 4 | 1852 | 200 | 80 | 726 | 710 | 650 | 11 | 6 | 23 | 119 | 119 | 12 | 534 | 810 | 1540 | 2.65 |
| 132 | 315MA | Siemens | 4 | 1852 | 200 | 80 | 726 | 710 | 650 | 11 | 6 | 23 | 119 | 119 | 177 | 534 | 965 | 1695 | 2.87 |
| 160 | 315L | Siemens | 4 | 1852 | 200 | 80 | 726 | 710 | 650 | 11 | 6 | 23 | 119 | 119 | 177 | 534 | 1100 | 1830 | 2.87 |
| 55 | 250MC | MMG-G | 4 | 1580 | 200 | 80 | 590 | 545 | 502 | 9 | 6 | 23 | 119 | 119 | 114 | 534 | 480 | 1014 | 3.020 |
| 75 | 280SB | MMG-G | 4 | 1673 | 200 | 80 | 637 | 605 | 560 | 9 | 6 | 23 | 119 | 119 | 147 | 534 | 621 | 1155 | 3.294 |
| 90 | 280MB | MMG-G | 4 | 1673 | 200 | 80 | 637 | 605 | 560 | 9 | 6 | 23 | 119 | 119 | 197 | 534 | 706 | 1240 | 3.373 |
| 110 | 315SB | MMG-G | 4 | 1852 | 200 | 80 | 726 | 710 | 650 | 11 | 6 | 23 | 119 | 119 | 176 | 534 | 920 | 1454 | 4.437 |
| 132 | 315MB | MMG-G | 4 | 1852 | 200 | 80 | 726 | 710 | 650 | 11 | 6 | 23 | 119 | 119 | 226 | 534 | 1000 | 1534 | 4.533 |
| 160 | 315LB | MMG-G | 4 | 1852 | 200 | 80 | 726 | 710 | 650 | 11 | 6 | 23 | 119 | 119 | 326 | 534 | 1070 | 1604 | 4.727 |

LS 200-150-508



TM072643

LS 200-150-508 dimensional sketches



TM072172

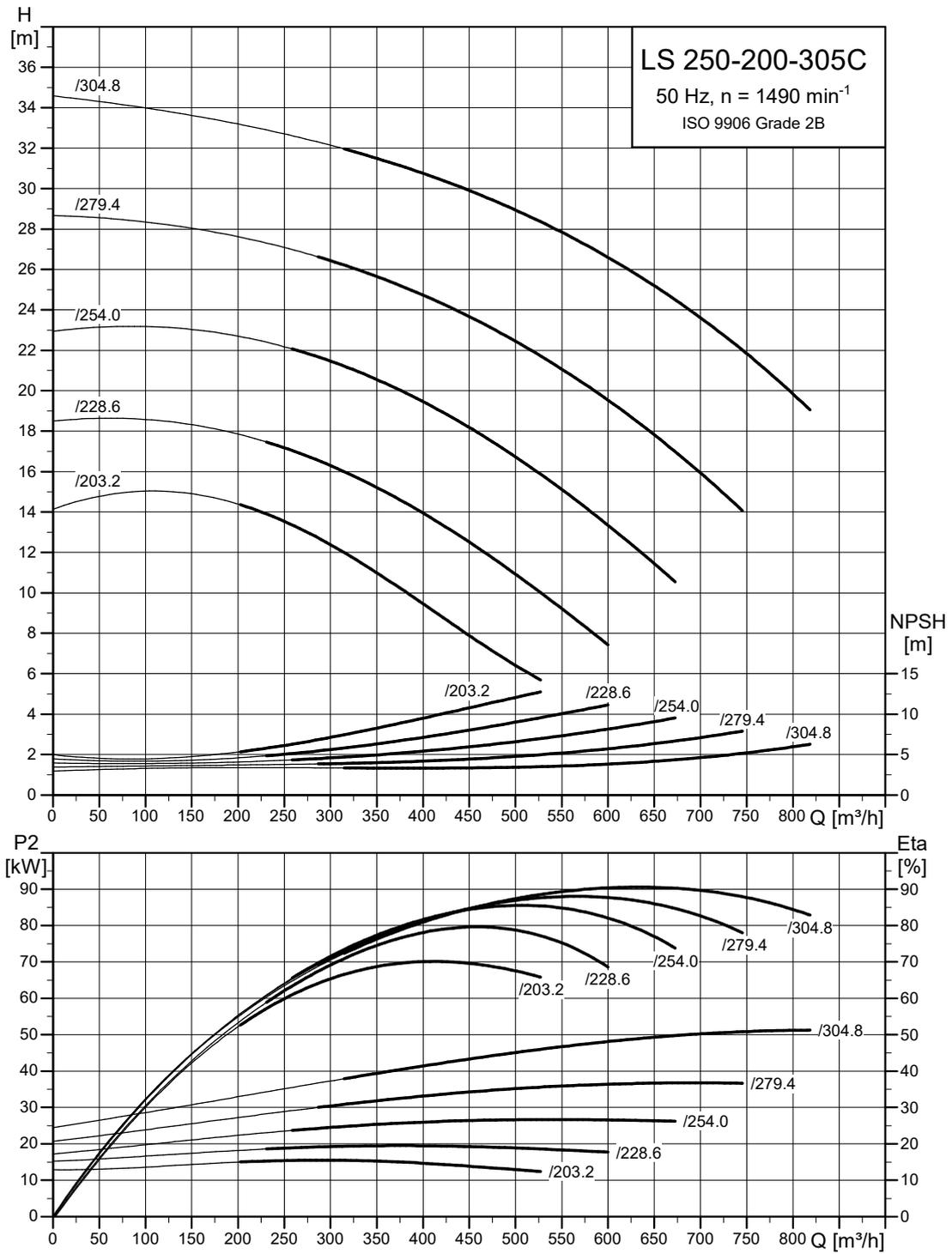
LS 200-150-508 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | | Motor dimensions [mm] | | | Distance between shaft ends [mm] | |
|---------|------------|---------|------|----------------------|--------------|-----|-------|-----|-----|-----|-----|-----------------------|--------|------|----------------------------------|----|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 55 | 250M | Siemens | 4 | 995 | 995 | 546 | 53.98 | 432 | 483 | 291 | 291 | 660 | 957 | 981 | 65 | 4 |
| 75 | 280S | Siemens | 4 | 995 | 995 | 546 | 53.98 | 432 | 483 | 311 | 311 | 660 | 1014 | 1024 | 75 | 5 |
| 90 | 280M | Siemens | 4 | 995 | 995 | 546 | 53.98 | 432 | 483 | 311 | 311 | 660 | 1069 | 1024 | 75 | 5 |
| 110 | 315S | Siemens | 4 | 995 | 995 | 546 | 53.98 | 432 | 483 | 371 | 371 | 660 | 1127 | 1190 | 80 | 5 |
| 132 | 315MA | Siemens | 4 | 995 | 995 | 546 | 53.98 | 432 | 483 | 371 | 371 | 660 | 1127 | 1190 | 80 | 5 |
| 160 | 315L | Siemens | 4 | 995 | 995 | 546 | 53.98 | 432 | 483 | 371 | 371 | 660 | 1357 | 1190 | 80 | 5 |
| 200 | 315L | Siemens | 4 | 995 | 995 | 546 | 53.98 | 432 | 483 | 371 | 371 | 660 | 1357 | 1190 | 80 | 5 |
| 250 | 315L | Siemens | 4 | 995 | 995 | 546 | 53.98 | 432 | 483 | 291 | 291 | 660 | 1422 | 1071 | 85 | 5 |
| 55 | 250MC | MMG-G | 4 | 995 | 995 | 546 | 53.98 | 432 | 483 | 311 | 311 | 660 | 921 | 991 | 65 | 4 |
| 75 | 280SB | MMG-G | 4 | 995 | 995 | 546 | 53.98 | 432 | 483 | 311 | 311 | 660 | 1037.5 | 1024 | 75 | 5 |
| 90 | 280MB | MMG-G | 4 | 995 | 995 | 546 | 53.98 | 432 | 483 | 311 | 311 | 660 | 1087.5 | 1024 | 75 | 5 |
| 110 | 315SB | MMG-G | 4 | 995 | 995 | 546 | 53.98 | 432 | 483 | 371 | 371 | 660 | 1246 | 1179 | 80 | 5 |
| 132 | 315MB | MMG-G | 4 | 995 | 995 | 546 | 53.98 | 432 | 483 | 371 | 371 | 660 | 1296 | 1179 | 80 | 5 |
| 160 | 315LB | MMG-G | 4 | 995 | 995 | 546 | 53.98 | 432 | 483 | 371 | 371 | 660 | 1396 | 1179 | 80 | 5 |
| 200 | 315LC | MMG-G | 4 | 995 | 995 | 546 | 53.98 | 432 | 483 | 371 | 371 | 660 | 1396 | 1179 | 80 | 5 |
| 250 | 355MB | MMG-G | 4 | 995 | 995 | 546 | 53.98 | 432 | 483 | 371 | 371 | 660 | 1605 | 1296 | 100 | 5 |

| Motor | | | | Base frame dimensions [mm] | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] | |
|---------|------------|---------|------|----------------------------|-----|----|-----|-----|-----|-----|---|---------------|-----------------|--------------|------------------|------|-------|----------------------|-------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | | Total |
| 55 | 250M | Siemens | 4 | 1640 | 200 | 80 | 620 | 555 | 511 | 8.5 | 6 | 18 | 169 | 169 | 77 | 545 | 460 | 1131 | 2.51 |
| 75 | 280S | Siemens | 4 | 1750 | 200 | 80 | 675 | 605 | 577 | 9 | 6 | 23 | 169 | 169 | 41 | 545 | 575 | 1259 | 2.71 |
| 90 | 280M | Siemens | 4 | 1750 | 200 | 80 | 675 | 605 | 577 | 9 | 6 | 23 | 169 | 169 | 151 | 545 | 675 | 1359 | 2.84 |
| 110 | 315S | Siemens | 4 | 1980 | 200 | 80 | 790 | 725 | 665 | 11 | 6 | 23 | 169 | 169 | - | 545 | 810 | 1564 | 3.32 |
| 132 | 315MA | Siemens | 4 | 1980 | 200 | 80 | 790 | 725 | 665 | 11 | 6 | 23 | 169 | 169 | 98 | 545 | 965 | 1719 | 3.45 |
| 160 | 315L | Siemens | 4 | 1980 | 200 | 80 | 790 | 725 | 665 | 11 | 6 | 23 | 169 | 169 | 98 | 545 | 1100 | 1854 | 3.45 |
| 200 | 315L | Siemens | 4 | 1980 | 200 | 80 | 790 | 725 | 665 | 11 | 6 | 23 | 169 | 169 | 98 | 545 | 1300 | 2054 | 3.45 |
| 250 | 315L | Siemens | 4 | 2000 | 200 | 80 | 800 | 725 | 681 | 8.5 | 6 | 18 | 169 | 169 | 78 | 545 | 1300 | 2079 | 3.19 |
| 55 | 250MC | MMG-G | 4 | 1640 | 200 | 80 | 620 | 555 | 511 | 8.5 | 6 | 18 | 169 | 169 | 111 | 545 | 480 | 1025 | 3.372 |
| 75 | 280SB | MMG-G | 4 | 1750 | 200 | 80 | 675 | 605 | 577 | 9 | 6 | 23 | 169 | 169 | 119 | 545 | 621 | 1166 | 4.051 |
| 90 | 280MB | MMG-G | 4 | 1750 | 200 | 80 | 675 | 605 | 577 | 9 | 6 | 23 | 169 | 169 | 169 | 545 | 706 | 1251 | 4.143 |
| 110 | 315SB | MMG-G | 4 | 1980 | 200 | 80 | 790 | 725 | 665 | 11 | 6 | 23 | 169 | 169 | 97 | 545 | 920 | 1465 | 4.886 |

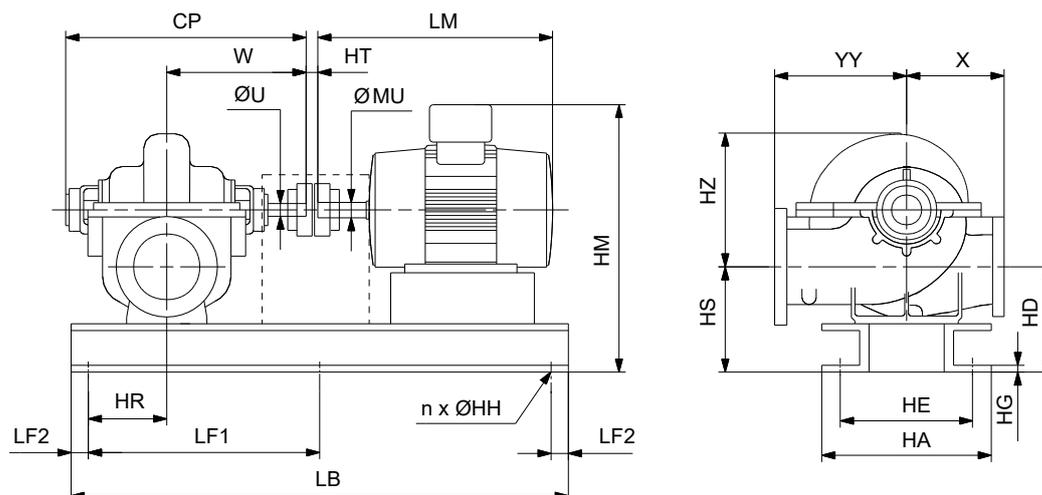
| P2 [kW] | Motor | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m ³] |
|------------|---------------|-------|------|----------------------------|-----|----|-----|-----|-----|------|---|-----|--------------------|-----------------|--------------|------------------|-------|-------|---|
| | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | |
| 132 | 315MB | MMG-G | 4 | 1980 | 200 | 80 | 790 | 725 | 665 | 11 | 6 | 23 | 169 | 169 | 147 | 545 | 1000 | 1545 | 4.988 |
| 160 | 315LB | MMG-G | 4 | 1980 | 200 | 80 | 790 | 725 | 665 | 11 | 6 | 23 | 169 | 169 | 247 | 545 | 1070 | 1615 | 5.192 |
| 200 | 315LC | MMG-G | 4 | 1980 | 200 | 80 | 790 | 725 | 665 | 11 | 6 | 23 | 169 | 169 | 247 | 545 | 1260 | 1805 | 5.192 |
| 250 | 355MB | MMG-G | 4 | 2140 | 200 | 80 | 870 | 800 | 738 | 10.5 | 6 | 18 | 169 | 169 | 296 | 545 | 1820 | 2365 | 6.012 |

LS 250-200-305



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LS 250-200-305 dimensional sketches



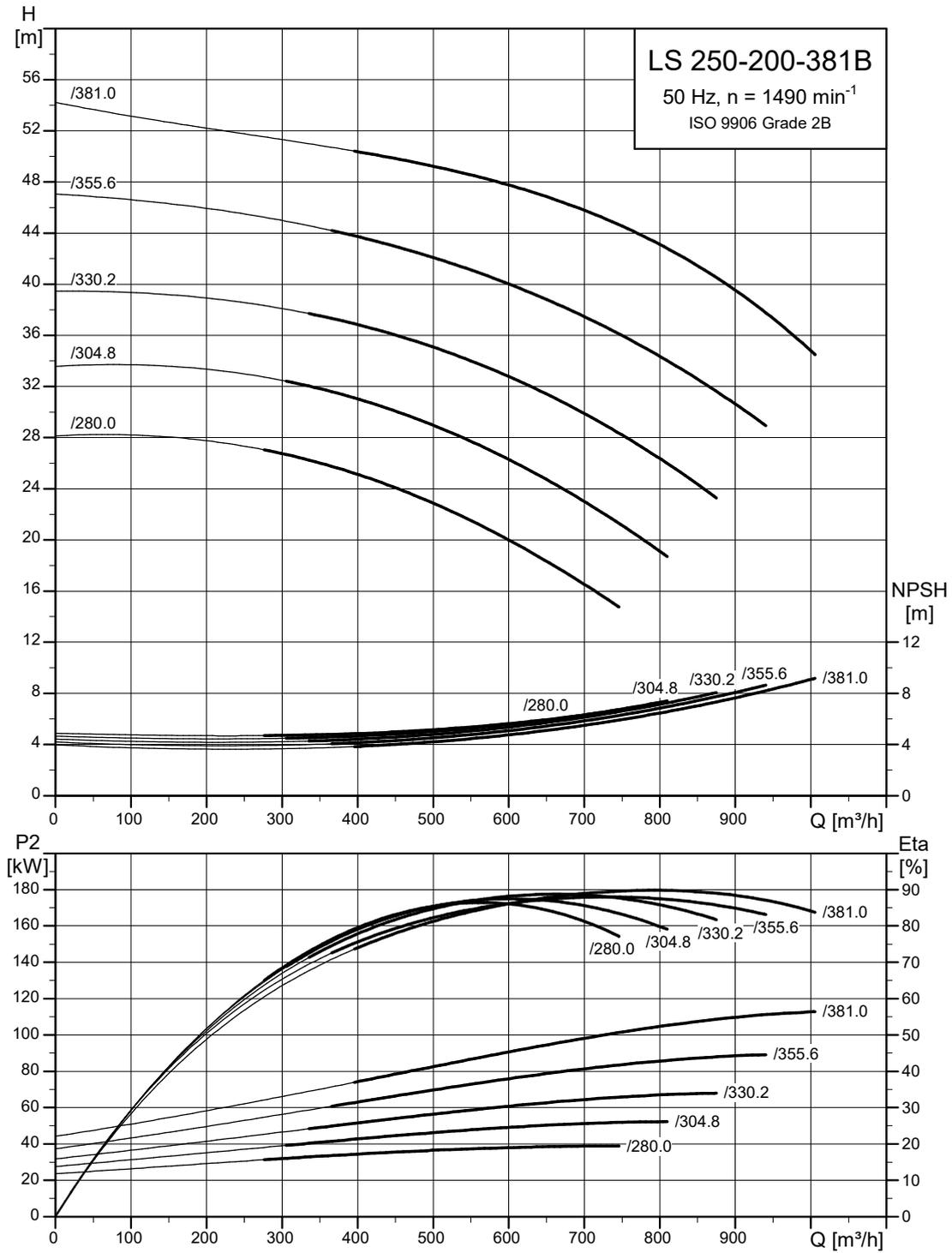
TM072172

LS 250-200-305 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | | Motor dimensions [mm] | | | Distance between shaft ends [mm] | |
|---------|------------|---------|------|----------------------|--------------|-----|-------|-----|-----|-----|-----|-----------------------|-----|-----|----------------------------------|----|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 15 | 160LB | MG | 4 | 929 | 929 | 508 | 44.45 | 406 | 432 | 311 | 311 | 580 | 655 | 875 | 42 | 3 |
| 18.5 | 180M | Siemens | 4 | 929 | 929 | 508 | 44.45 | 406 | 432 | 311 | 311 | 580 | 712 | 844 | 48 | 4 |
| 22 | 180L | Siemens | 4 | 929 | 929 | 508 | 44.45 | 406 | 432 | 311 | 311 | 580 | 712 | 844 | 48 | 4 |
| 30 | 200L | Siemens | 4 | 929 | 929 | 508 | 44.45 | 406 | 432 | 311 | 311 | 580 | 769 | 953 | 55 | 4 |
| 37 | 225S | Siemens | 4 | 929 | 929 | 508 | 44.45 | 406 | 432 | 311 | 311 | 580 | 789 | 916 | 60 | 7 |
| 45 | 225M | Siemens | 4 | 929 | 929 | 508 | 44.45 | 406 | 432 | 311 | 311 | 580 | 849 | 916 | 60 | 7 |
| 55 | 250M | Siemens | 4 | 929 | 929 | 508 | 44.45 | 406 | 432 | 311 | 311 | 580 | 957 | 988 | 65 | 7 |
| 15 | 160L | MMG-G | 4 | 929 | 929 | 508 | 44.45 | 406 | 432 | 311 | 311 | 580 | 652 | 819 | 42 | 3 |
| 18.5 | 180M | MMG-G | 4 | 929 | 929 | 508 | 44.45 | 406 | 432 | 311 | 311 | 580 | 672 | 845 | 48 | 4 |
| 22 | 180L | MMG-G | 4 | 929 | 929 | 508 | 44.45 | 406 | 432 | 311 | 311 | 580 | 710 | 845 | 48 | 4 |
| 30 | 200L | MMG-G | 4 | 929 | 929 | 508 | 44.45 | 406 | 432 | 311 | 311 | 580 | 770 | 910 | 55 | 4 |
| 37 | 225SC | MMG-G | 4 | 929 | 929 | 508 | 44.45 | 406 | 432 | 311 | 311 | 580 | 816 | 936 | 60 | 7 |
| 45 | 225MC | MMG-G | 4 | 929 | 929 | 508 | 44.45 | 406 | 432 | 311 | 311 | 580 | 841 | 936 | 60 | 7 |
| 55 | 250MC | MMG-G | 4 | 929 | 929 | 508 | 44.45 | 406 | 432 | 311 | 311 | 580 | 921 | 978 | 65 | 7 |

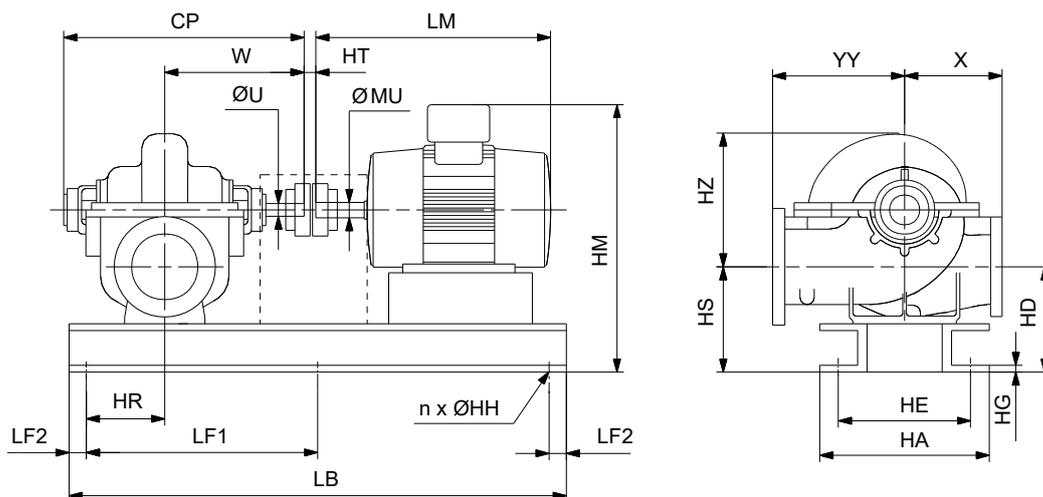
| Motor | | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] |
|---------|------------|---------|------|----------------------------|-----|-----|-----|-----|-----|-----|---|-----|-----------------|--------------|-----------|------------------|-------|-------|----------------------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | Shipping volume [m³] |
| | | | | | | | | | | | | | | | | | | | |
| 18.5 | 180M | Siemens | 4 | 1460 | 200 | 100 | 530 | 390 | 346 | 8.5 | 6 | 18 | 121 | 121 | 20 | 511 | 126 | 737 | 1.82 |
| 22 | 180L | Siemens | 4 | 1460 | 200 | 100 | 530 | 390 | 346 | 8.5 | 6 | 18 | 121 | 121 | 50 | 511 | 146 | 757 | 1.85 |
| 30 | 200L | Siemens | 4 | 1500 | 200 | 100 | 550 | 425 | 363 | 11 | 6 | 23 | 121 | 121 | 58 | 511 | 200 | 814 | 2.03 |
| 37 | 225S | Siemens | 4 | 1550 | 200 | 100 | 575 | 495 | 452 | 9 | 6 | 23 | 121 | 121 | 52 | 511 | 290 | 917 | 2.03 |
| 45 | 225M | Siemens | 4 | 1550 | 200 | 100 | 575 | 495 | 452 | 9 | 6 | 23 | 121 | 121 | 112 | 511 | 330 | 957 | 2.09 |
| 55 | 250M | Siemens | 4 | 1630 | 200 | 100 | 615 | 545 | 500 | 9 | 6 | 23 | 121 | 121 | 71 | 511 | 460 | 1101 | 2.28 |
| 15 | 160L | MMG-G | 4 | 1420 | 200 | 100 | 510 | 360 | 298 | 11 | 6 | 23 | 121 | 121 | 43 | 511 | 150 | 661 | 2.449 |
| 18.5 | 180M | MMG-G | 4 | 1460 | 200 | 100 | 530 | 390 | 346 | 8.5 | 6 | 18 | 121 | 121 | 24 | 511 | 195 | 706 | 2.479 |
| 22 | 180L | MMG-G | 4 | 1460 | 200 | 100 | 530 | 390 | 346 | 8.5 | 6 | 18 | 121 | 121 | 62 | 511 | 205 | 716 | 2.532 |
| 30 | 200L | MMG-G | 4 | 1500 | 200 | 100 | 550 | 425 | 363 | 11 | 6 | 23 | 121 | 121 | 82 | 511 | 285 | 796 | 2.657 |
| 37 | 225SC | MMG-G | 4 | 1550 | 200 | 100 | 575 | 495 | 452 | 9 | 6 | 23 | 121 | 121 | 81 | 511 | 350 | 861 | 2.783 |
| 45 | 225MC | MMG-G | 4 | 1550 | 200 | 100 | 575 | 495 | 452 | 9 | 6 | 23 | 121 | 121 | 106 | 511 | 360 | 871 | 2.820 |
| 55 | 250MC | MMG-G | 4 | 1630 | 200 | 100 | 615 | 545 | 500 | 9 | 6 | 23 | 121 | 121 | 106 | 511 | 480 | 991 | 3.033 |

LS 250-200-381



TM072647

LS 250-200-381 dimensional sketches



TM072172

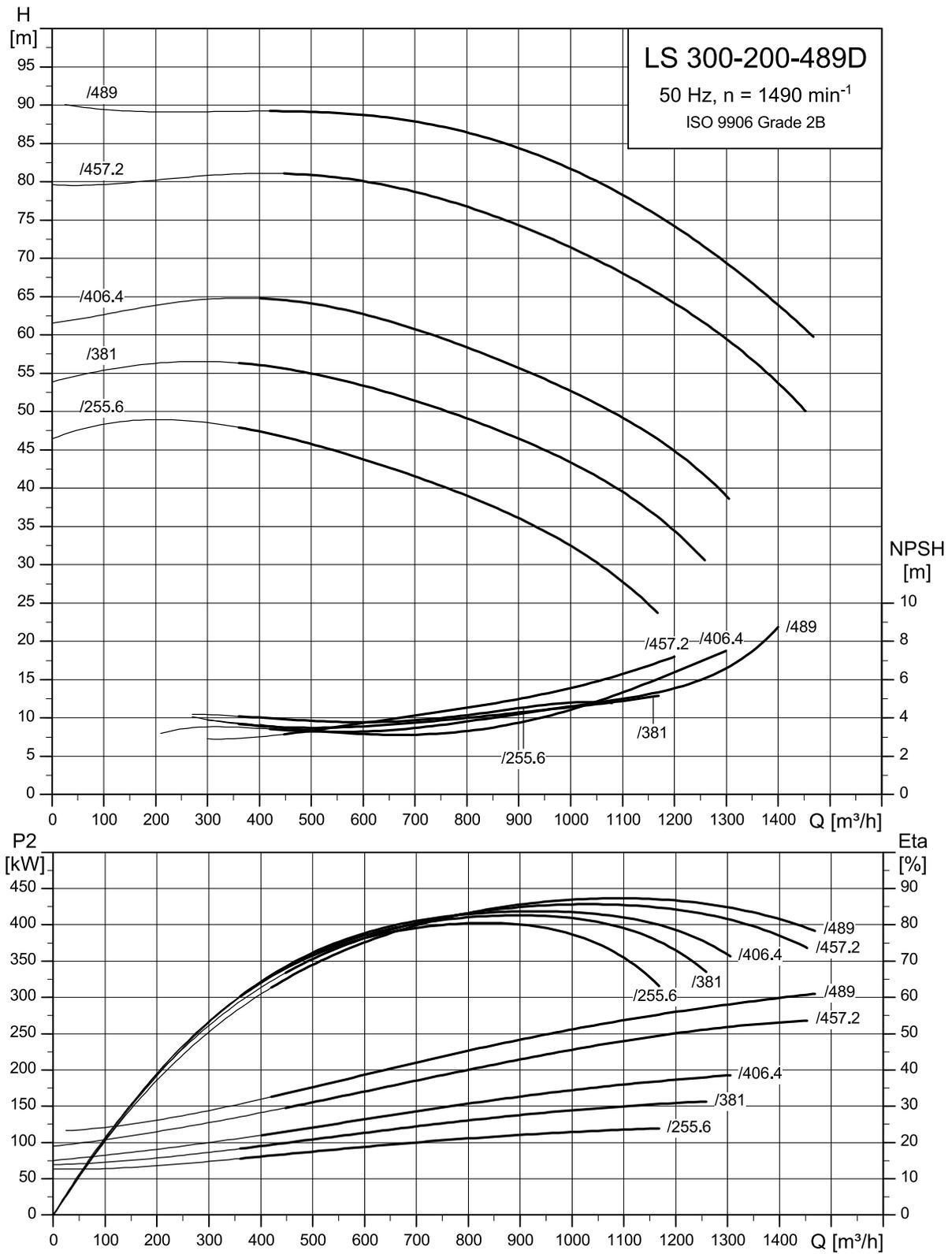
LS 250-200-381 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | | | Motor dimensions [mm] | | | Distance between shaft ends [mm] |
|---------|------------|---------|------|----------------------|--------------|-----|-------|-----|-----|-----|-----|-----|-----------------------|------|-----|----------------------------------|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 30 | 200L | Siemens | 4 | 949 | 949 | 518 | 44.45 | 483 | 483 | 318 | 318 | 655 | 769 | 918 | 55 | 4 |
| 37 | 225S | Siemens | 4 | 949 | 949 | 518 | 44.45 | 483 | 483 | 318 | 318 | 655 | 789 | 1021 | 60 | 7 |
| 45 | 225M | Siemens | 4 | 949 | 949 | 518 | 44.45 | 483 | 483 | 318 | 318 | 655 | 849 | 1021 | 60 | 7 |
| 55 | 250M | Siemens | 4 | 949 | 949 | 518 | 44.45 | 483 | 483 | 318 | 318 | 655 | 957 | 1013 | 65 | 7 |
| 75 | 280S | Siemens | 4 | 949 | 949 | 518 | 44.45 | 483 | 483 | 318 | 318 | 655 | 1014 | 1056 | 75 | 17 |
| 90 | 280M | Siemens | 4 | 949 | 949 | 518 | 44.45 | 483 | 483 | 318 | 318 | 655 | 1069 | 1056 | 75 | 17 |
| 110 | 315S | Siemens | 4 | 949 | 949 | 518 | 44.45 | 483 | 483 | 378 | 378 | 655 | 1127 | 1222 | 80 | 17 |
| 132 | 315MA | Siemens | 4 | 949 | 949 | 518 | 44.45 | 483 | 483 | 378 | 378 | 655 | 1127 | 1222 | 80 | 17 |
| 160 | 315L | Siemens | 4 | 949 | 949 | 518 | 44.45 | 483 | 483 | 378 | 378 | 655 | 1357 | 1222 | 80 | 17 |
| 30 | 200L | MMG-G | 4 | 949 | 949 | 518 | 44.45 | 483 | 483 | 318 | 318 | 655 | 770 | 955 | 55 | 4 |
| 37 | 225SC | MMG-G | 4 | 949 | 949 | 518 | 44.45 | 483 | 483 | 318 | 318 | 655 | 816 | 981 | 60 | 7 |
| 45 | 225MC | MMG-G | 4 | 949 | 949 | 518 | 44.45 | 483 | 483 | 318 | 318 | 655 | 841 | 981 | 60 | 7 |
| 55 | 250MC | MMG-G | 4 | 949 | 949 | 518 | 44.45 | 483 | 483 | 318 | 318 | 655 | 921 | 1023 | 65 | 7 |
| 75 | 280SB | MMG-G | 4 | 949 | 949 | 518 | 44.45 | 483 | 483 | 318 | 318 | 655 | 1037.5 | 1056 | 75 | 17 |
| 90 | 280MB | MMG-G | 4 | 949 | 949 | 518 | 44.45 | 483 | 483 | 318 | 318 | 655 | 1087.5 | 1056 | 75 | 17 |
| 110 | 315SB | MMG-G | 4 | 949 | 949 | 518 | 44.45 | 483 | 483 | 378 | 378 | 655 | 1246 | 1211 | 80 | 17 |
| 132 | 315MB | MMG-G | 4 | 949 | 949 | 518 | 44.45 | 483 | 483 | 378 | 378 | 655 | 1296 | 1211 | 80 | 17 |
| 160 | 315LB | MMG-G | 4 | 949 | 949 | 518 | 44.45 | 483 | 483 | 378 | 378 | 655 | 1396 | 1211 | 80 | 17 |

| Motor | | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] |
|---------|------------|---------|------|----------------------------|-----|-----|-----|-----|-----|-----|---|-----|-----------------|--------------|-----------|------------------|-------|-------|----------------------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | Shipping volume [m³] |
| | | | | | | | | | | | | | | | | | | | |
| 37 | 225S | Siemens | 4 | 1620 | 200 | 150 | 610 | 465 | 403 | 11 | 6 | 23 | 81 | 81 | 42 | 568 | 290 | 981 | 2.57 |
| 45 | 225M | Siemens | 4 | 1620 | 200 | 150 | 610 | 465 | 403 | 11 | 6 | 23 | 81 | 81 | 102 | 568 | 330 | 1021 | 2.65 |
| 55 | 250M | Siemens | 4 | 1690 | 200 | 150 | 645 | 555 | 511 | 8.5 | 6 | 18 | 81 | 81 | 71 | 568 | 460 | 1164 | 2.65 |
| 75 | 280S | Siemens | 4 | 1780 | 200 | 150 | 690 | 605 | 577 | 9 | 6 | 23 | 81 | 81 | 64 | 568 | 575 | 1301 | 2.86 |
| 90 | 280M | Siemens | 4 | 1780 | 200 | 150 | 690 | 605 | 577 | 9 | 6 | 23 | 81 | 81 | 174 | 568 | 675 | 1401 | 3.01 |
| 110 | 315S | Siemens | 4 | 1950 | 200 | 150 | 775 | 710 | 650 | 11 | 6 | 23 | 81 | 81 | 16 | 568 | 810 | 1597 | 3.40 |
| 132 | 315MA | Siemens | 4 | 1950 | 200 | 150 | 775 | 710 | 650 | 11 | 6 | 23 | 81 | 81 | 181 | 568 | 965 | 1752 | 3.65 |
| 160 | 315L | Siemens | 4 | 1950 | 200 | 150 | 775 | 710 | 650 | 11 | 6 | 23 | 81 | 81 | 181 | 568 | 1100 | 1887 | 3.65 |
| 30 | 200L | MMG-G | 4 | 1560 | 200 | 150 | 580 | 425 | 381 | 8.5 | 6 | 18 | 81 | 81 | 82 | 568 | 285 | 853 | 3.138 |
| 37 | 225SC | MMG-G | 4 | 1620 | 200 | 150 | 610 | 465 | 403 | 11 | 6 | 23 | 81 | 81 | 71 | 568 | 350 | 918 | 3.238 |
| 45 | 225MC | MMG-G | 4 | 1620 | 200 | 150 | 610 | 465 | 403 | 11 | 6 | 23 | 81 | 81 | 96 | 568 | 360 | 928 | 3.280 |
| 55 | 250MC | MMG-G | 4 | 1690 | 200 | 150 | 645 | 555 | 511 | 8.5 | 6 | 18 | 81 | 81 | 106 | 568 | 480 | 1048 | 3.523 |

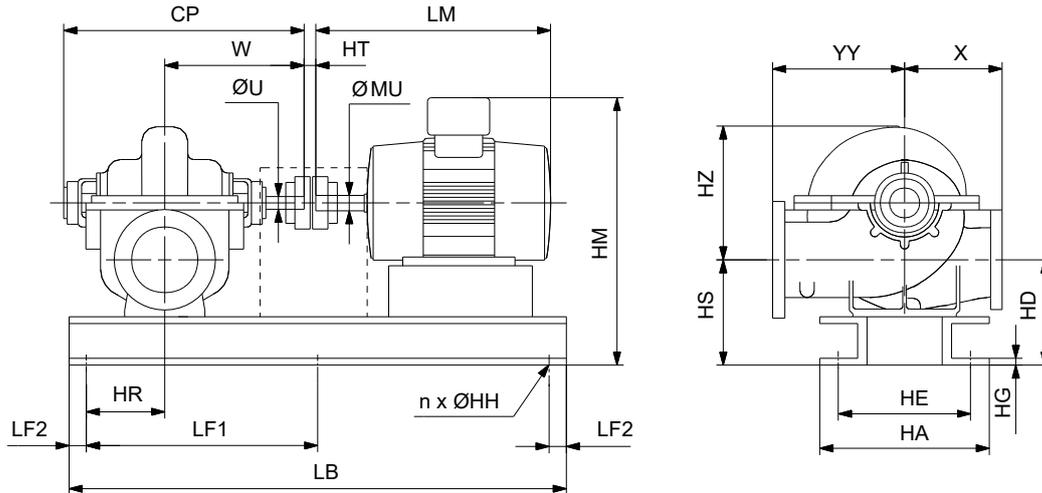
| P2 [kW] | Motor | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m ³] |
|------------|---------------|-------|------|----------------------------|-----|-----|-----|-----|-----|----|---|-----|--------------------|-----------------|--------------|------------------|-------|-------|---|
| | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | |
| 75 | 280SB | MMG-G | 4 | 1780 | 200 | 150 | 690 | 605 | 577 | 9 | 6 | 23 | 81 | 81 | 142 | 568 | 621 | 1189 | 4.241 |
| 90 | 280MB | MMG-G | 4 | 1780 | 200 | 150 | 690 | 605 | 577 | 9 | 6 | 23 | 81 | 81 | 192 | 568 | 706 | 1274 | 4.340 |
| 110 | 315SB | MMG-G | 4 | 1950 | 200 | 150 | 775 | 710 | 650 | 11 | 6 | 23 | 81 | 81 | 181 | 568 | 920 | 1488 | 5.114 |
| 132 | 315MB | MMG-G | 4 | 1950 | 200 | 150 | 775 | 710 | 650 | 11 | 6 | 23 | 81 | 81 | 231 | 568 | 1000 | 1568 | 5.222 |
| 160 | 315LB | MMG-G | 4 | 1950 | 200 | 150 | 775 | 710 | 650 | 11 | 6 | 23 | 81 | 81 | 331 | 568 | 1070 | 1638 | 5.439 |

LS 300-200-489



TM083154

LS 300-200-489 dimensional sketches



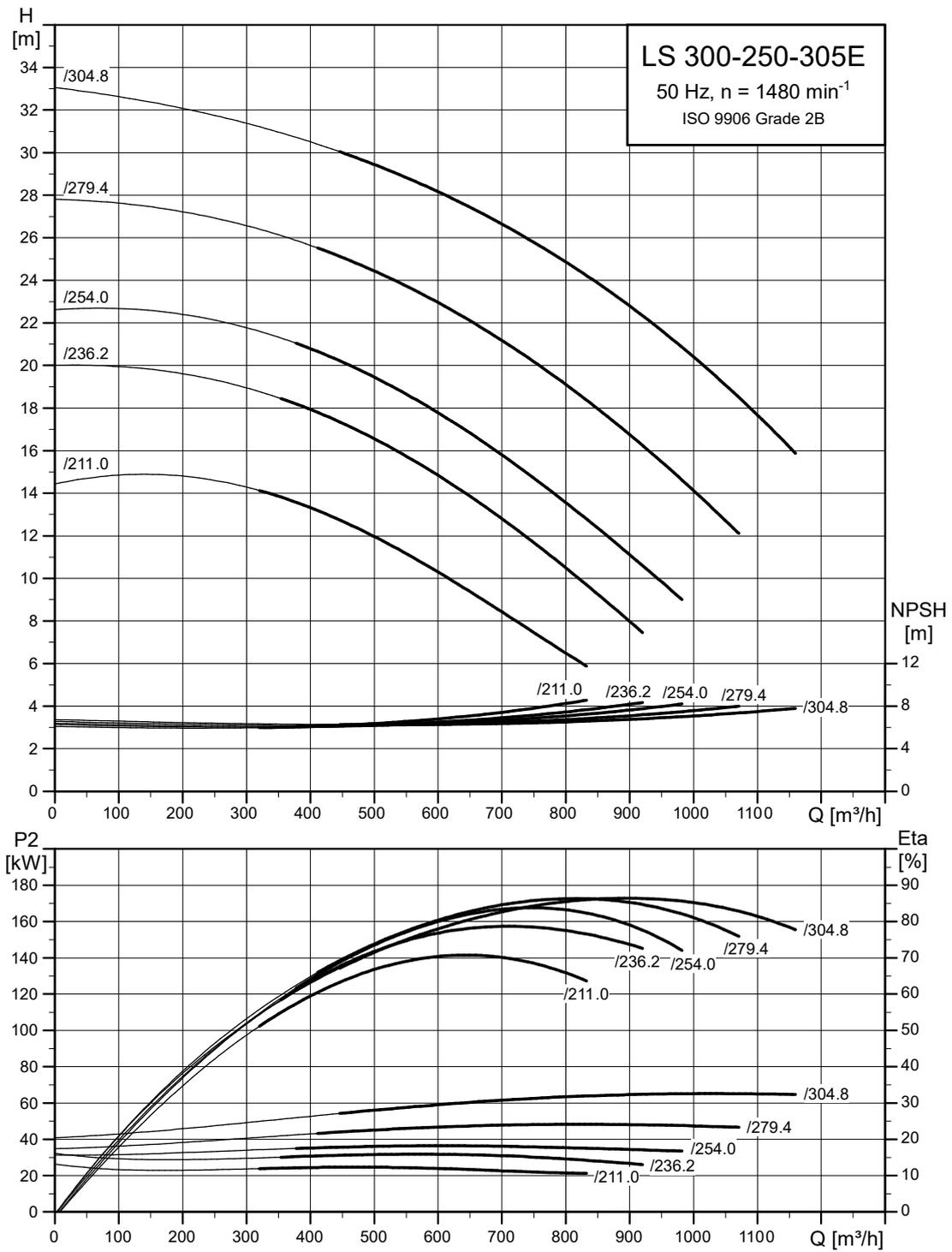
TM072172

LS 300-200-489 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | | Motor dimensions [mm] | | | | Distance between shaft ends [mm] |
|---------|------------|---------|------|----------------------|--------------|-----|------|-----|-----|-----|-----|-----------------------|------|------|-----|----------------------------------|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 110 | 315S | Siemens | 4 | 1306 | 1306 | 723 | 63.5 | 414 | 559 | 398 | 398 | 745 | 1127 | 1268 | 80 | 4 |
| 132 | 315MA | Siemens | 4 | 1306 | 1306 | 723 | 63.5 | 414 | 559 | 398 | 398 | 745 | 1127 | 1268 | 80 | 4 |
| 160 | 315L | Siemens | 4 | 1306 | 1306 | 723 | 63.5 | 414 | 559 | 398 | 398 | 745 | 1357 | 1268 | 80 | 4 |
| 200 | 315L | Siemens | 4 | 1306 | 1306 | 723 | 63.5 | 414 | 559 | 398 | 398 | 745 | 1357 | 1268 | 80 | 4 |
| 250 | 315L | Siemens | 4 | 1306 | 1306 | 723 | 63.5 | 414 | 559 | 398 | 398 | 745 | 1410 | 1149 | 85 | 4 |
| 315 | 315L | Siemens | 4 | 1306 | 1306 | 723 | 63.5 | 414 | 559 | 398 | 398 | 745 | 1400 | 1149 | 85 | 4 |
| 355 | 355L | Siemens | 4 | 1306 | 1306 | 723 | 63.5 | 414 | 559 | 398 | 398 | 745 | 1835 | 1426 | 95 | 4 |
| 110 | 315SB | MMG-G | 4 | 1306 | 1306 | 723 | 63.5 | 414 | 559 | 398 | 398 | 745 | 1246 | 1257 | 80 | 4 |
| 132 | 315MB | MMG-G | 4 | 1306 | 1306 | 723 | 63.5 | 414 | 559 | 398 | 398 | 745 | 1296 | 1257 | 80 | 4 |
| 160 | 315LB | MMG-G | 4 | 1306 | 1306 | 723 | 63.5 | 414 | 559 | 398 | 398 | 745 | 1396 | 1257 | 80 | 4 |
| 200 | 315LC | MMG-G | 4 | 1306 | 1306 | 723 | 63.5 | 414 | 559 | 398 | 398 | 745 | 1396 | 1257 | 80 | 4 |
| 250 | 355MB | MMG-G | 4 | 1306 | 1306 | 723 | 63.5 | 414 | 559 | 398 | 398 | 745 | 1605 | 1374 | 100 | 4 |
| 315 | 355LB | MMG-G | 4 | 1306 | 1306 | 723 | 63.5 | 414 | 559 | 398 | 398 | 745 | 1605 | 1374 | 100 | 4 |
| 355 | 355CB | MMG-G | 4 | 1306 | 1306 | 723 | 63.5 | 414 | 559 | 398 | 398 | 745 | 1795 | 1374 | 100 | 4 |

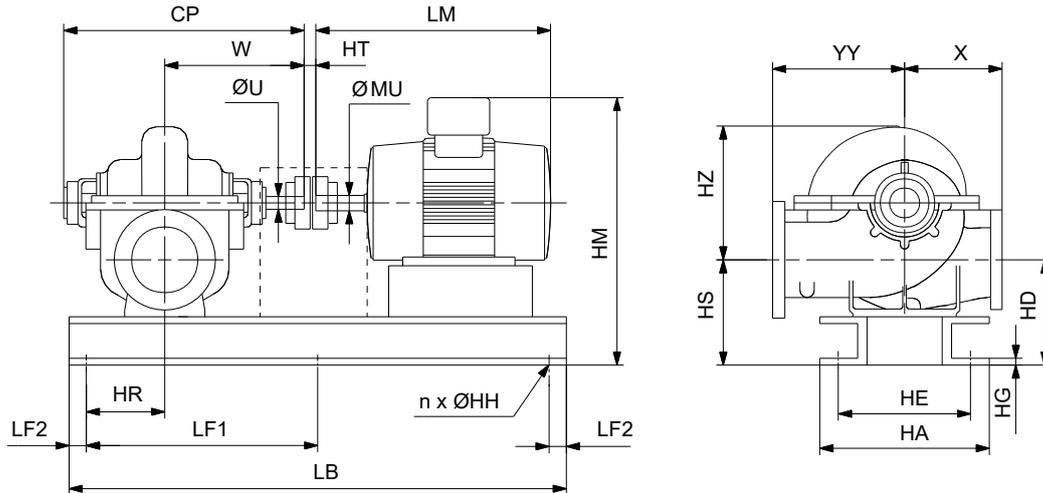
| Motor | | | | Base frame dimensions [mm] | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] | |
|---------|------------|---------|------|----------------------------|-----|-----|------|-----|-----|------|---|---------------|-----------------|--------------|------------------|------|-------|----------------------|----------------------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | Shipping volume [m³] |
| | | | | | | | | | | | | | | | | | | | |
| 132 | 315MA | Siemens | 4 | 2150 | 200 | 150 | 875 | 700 | 638 | 11 | 6 | 18 | 233 | 233 | 188 | 727 | 965 | 1928 | 4.37 |
| 160 | 315L | Siemens | 4 | 2150 | 200 | 150 | 875 | 700 | 638 | 11 | 6 | 18 | 233 | 233 | 188 | 727 | 1100 | 2063 | 4.37 |
| 200 | 315L | Siemens | 4 | 2150 | 200 | 150 | 875 | 700 | 638 | 11 | 6 | 18 | 233 | 233 | 328 | 727 | 1300 | 2263 | 4.59 |
| 250 | 315L | Siemens | 4 | 2200 | 200 | 150 | 900 | 725 | 681 | 8.5 | 6 | 18 | 233 | 233 | 236 | 727 | 1300 | 2293 | 4.28 |
| 315 | 315L | Siemens | 4 | 2200 | 200 | 150 | 900 | 725 | 681 | 8.5 | 6 | 18 | 233 | 233 | 226 | 727 | 1300 | 2293 | 4.28 |
| 355 | 355L | Siemens | 4 | 2450 | 200 | 150 | 1025 | 850 | 788 | 11 | 6 | 23 | 233 | 233 | 461 | 727 | 1900 | 2964 | 4.63 |
| 110 | 315SB | MMG-G | 4 | 2150 | 200 | 150 | 875 | 700 | 638 | 11 | 6 | 18 | 233 | 233 | 173 | 727 | 920 | 1647 | 6.051 |
| 132 | 315MB | MMG-G | 4 | 2150 | 200 | 150 | 875 | 700 | 638 | 11 | 6 | 18 | 233 | 233 | 223 | 727 | 1000 | 1727 | 6.163 |
| 160 | 315LB | MMG-G | 4 | 2150 | 200 | 150 | 875 | 700 | 638 | 11 | 6 | 18 | 233 | 233 | 323 | 727 | 1070 | 1797 | 6.386 |
| 200 | 315LC | MMG-G | 4 | 2150 | 200 | 150 | 875 | 700 | 638 | 11 | 6 | 18 | 233 | 233 | 323 | 727 | 1260 | 1987 | 6.386 |
| 250 | 355MB | MMG-G | 4 | 2460 | 200 | 150 | 1030 | 827 | 681 | 8.5 | 6 | 18 | 233 | 233 | 222 | 727 | 1820 | 2547 | 7.312 |
| 315 | 355LB | MMG-G | 4 | 2460 | 200 | 150 | 1030 | 827 | 765 | 10.5 | 6 | 18 | 233 | 233 | 222 | 727 | 2150 | 2877 | 7.312 |
| 355 | 355CB | MMG-G | 4 | 2750 | 200 | 150 | 1175 | 850 | 788 | 11 | 6 | 23 | 233 | 233 | 122 | 727 | 2300 | 3027 | 7.832 |

LS 300-250-305



TM072625

LS 300-250-305 dimensional sketches



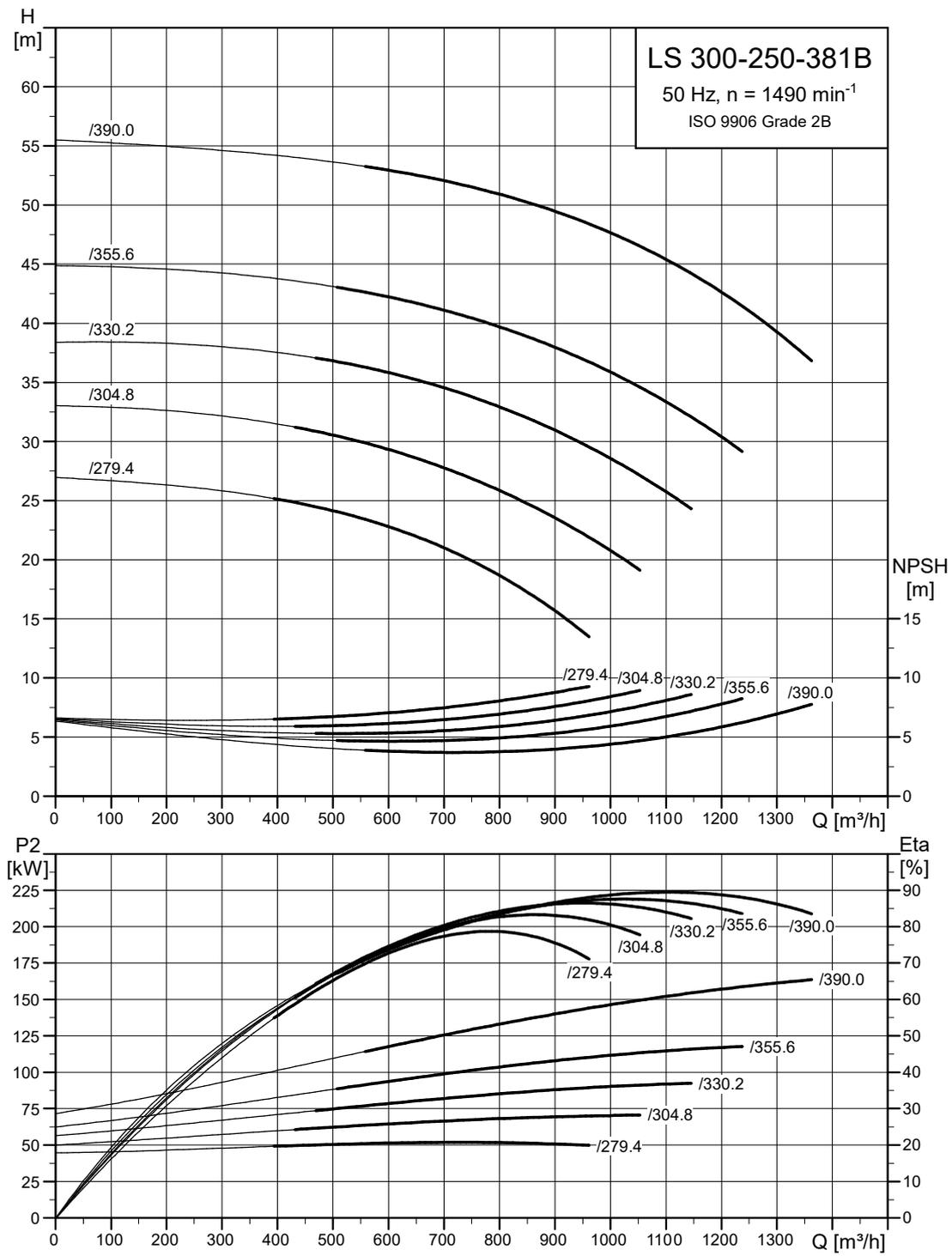
TM072172

LS 300-250-305 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | | Motor dimensions [mm] | | | Distance between shaft ends [mm] | |
|---------|------------|---------|------|----------------------|--------------|-----|-------|-----|-----|-----|-----|-----------------------|--------|------|----------------------------------|----|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 30 | 200L | Siemens | 4 | 974 | 974 | 530 | 44.45 | 495 | 495 | 343 | 343 | 645 | 769 | 958 | 55 | 4 |
| 37 | 225S | Siemens | 4 | 974 | 974 | 530 | 44.45 | 495 | 495 | 343 | 343 | 645 | 789 | 981 | 60 | 6 |
| 45 | 225M | Siemens | 4 | 974 | 974 | 530 | 44.45 | 495 | 495 | 343 | 343 | 645 | 849 | 981 | 60 | 6 |
| 55 | 250M | Siemens | 4 | 974 | 974 | 530 | 44.45 | 495 | 495 | 343 | 343 | 645 | 957 | 1053 | 65 | 6 |
| 75 | 280S | Siemens | 4 | 974 | 974 | 530 | 44.45 | 495 | 495 | 343 | 343 | 645 | 1014 | 1076 | 75 | 16 |
| 90 | 280M | Siemens | 4 | 974 | 974 | 530 | 44.45 | 495 | 495 | 343 | 343 | 645 | 1069 | 1076 | 75 | 16 |
| 30 | 200L | MMG-G | 4 | 974 | 974 | 530 | 44.45 | 495 | 495 | 343 | 343 | 645 | 770 | 975 | 55 | 4 |
| 37 | 225SC | MMG-G | 4 | 974 | 974 | 530 | 44.45 | 495 | 495 | 343 | 343 | 645 | 816 | 1001 | 60 | 6 |
| 45 | 225MC | MMG-G | 4 | 974 | 974 | 530 | 44.45 | 495 | 495 | 343 | 343 | 645 | 841 | 1001 | 60 | 6 |
| 55 | 250MC | MMG-G | 4 | 974 | 974 | 530 | 44.45 | 495 | 495 | 343 | 343 | 645 | 921 | 1043 | 65 | 6 |
| 75 | 280SB | MMG-G | 4 | 974 | 974 | 530 | 44.45 | 495 | 495 | 343 | 343 | 645 | 1037.5 | 1076 | 75 | 16 |
| 90 | 280MB | MMG-G | 4 | 974 | 974 | 530 | 44.45 | 495 | 495 | 343 | 343 | 645 | 1087.5 | 1076 | 75 | 16 |

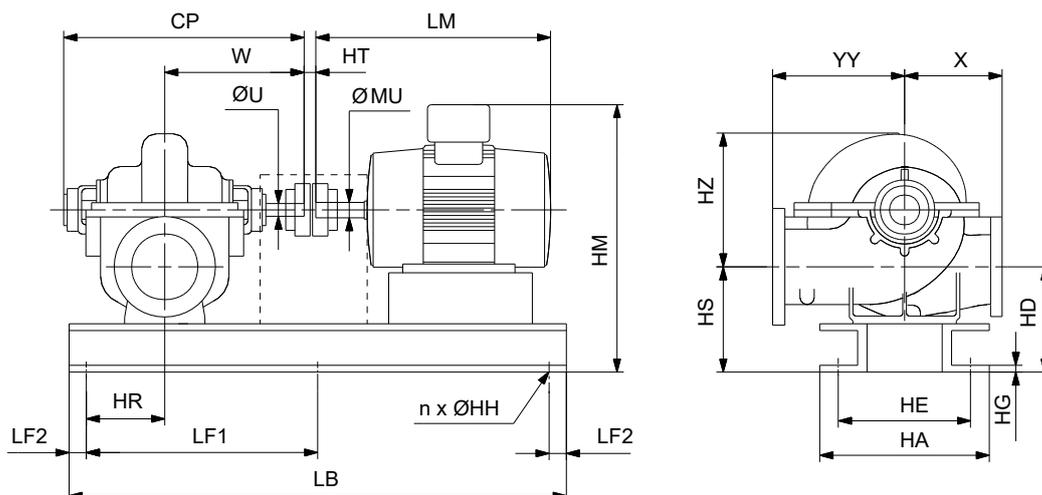
| Motor | | | | Base frame dimensions [mm] | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] | |
|---------|------------|---------|------|----------------------------|-----|-----|-----|-----|-----|----|---|---------------|-----------------|--------------|------------------|------|-------|----------------------|-------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | | Total |
| 30 | 200L | Siemens | 4 | 1570 | 200 | 150 | 585 | 420 | 372 | 9 | 6 | 18 | 94 | 94 | 60 | 727 | 200 | 1044 | 0.41 |
| 37 | 225S | Siemens | 4 | 1650 | 200 | 150 | 625 | 465 | 417 | 9 | 6 | 18 | 94 | 94 | 25 | 636 | 290 | 1054 | 2.51 |
| 45 | 225M | Siemens | 4 | 1650 | 200 | 150 | 625 | 465 | 417 | 9 | 6 | 18 | 94 | 94 | 85 | 636 | 330 | 1094 | 2.59 |
| 55 | 250M | Siemens | 4 | 1720 | 200 | 150 | 660 | 526 | 472 | 9 | 6 | 23 | 94 | 94 | 54 | 636 | 460 | 1247 | 2.84 |
| 75 | 280S | Siemens | 4 | 1800 | 200 | 150 | 700 | 575 | 528 | 9 | 6 | 23 | 94 | 94 | 57 | 636 | 575 | 1371 | 3.01 |
| 90 | 280M | Siemens | 4 | 1800 | 200 | 150 | 700 | 575 | 528 | 9 | 6 | 23 | 94 | 94 | 167 | 636 | 675 | 1471 | 3.16 |
| 30 | 200L | MMG-G | 4 | 1570 | 200 | 150 | 585 | 420 | 372 | 9 | 6 | 18 | 94 | 94 | 84 | 727 | 285 | 1012 | 3.276 |
| 37 | 225SC | MMG-G | 4 | 1650 | 200 | 150 | 625 | 465 | 417 | 9 | 6 | 18 | 94 | 94 | 52 | 636 | 350 | 986 | 3.392 |
| 45 | 225MC | MMG-G | 4 | 1650 | 200 | 150 | 625 | 465 | 417 | 9 | 6 | 18 | 94 | 94 | 77 | 636 | 360 | 996 | 3.436 |
| 55 | 250MC | MMG-G | 4 | 1720 | 200 | 150 | 660 | 526 | 472 | 9 | 6 | 23 | 94 | 94 | 87 | 636 | 480 | 1116 | 3.686 |
| 75 | 280SB | MMG-G | 4 | 1800 | 200 | 150 | 700 | 575 | 528 | 9 | 6 | 23 | 94 | 94 | 134 | 636 | 621 | 1257 | 4.428 |
| 90 | 280MB | MMG-G | 4 | 1800 | 200 | 150 | 700 | 575 | 528 | 9 | 6 | 23 | 94 | 94 | 184 | 636 | 706 | 1342 | 4.529 |

LS 300-250-381



TM072652

LS 300-250-381 dimensional sketches



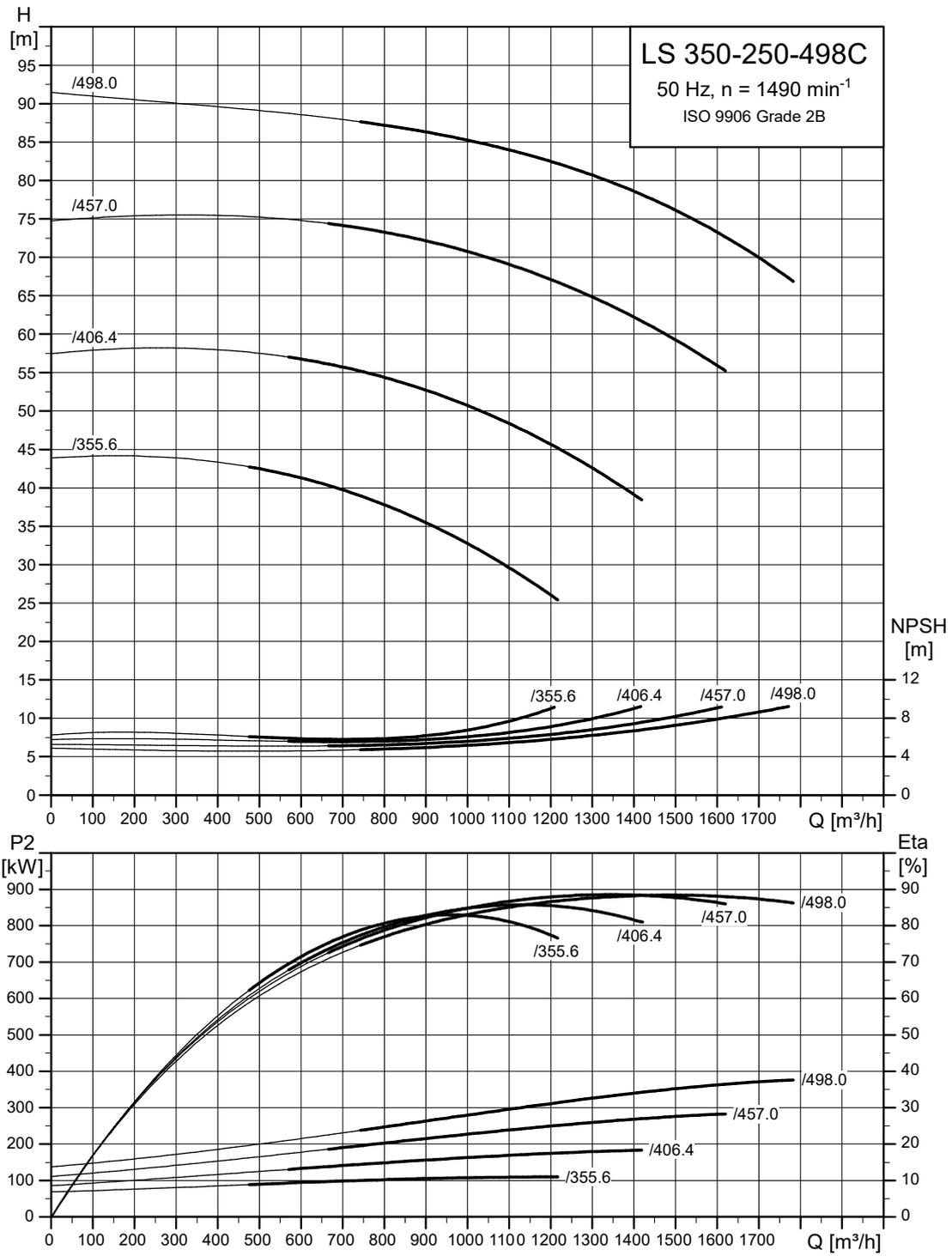
TM072172

LS 300-250-381 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | | | Motor dimensions [mm] | | | Distance between shaft ends [mm] |
|---------|------------|---------|------|----------------------|--------------|-----|-------|-----|-----|-----|-----|-----|-----------------------|------|-----|----------------------------------|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 55 | 250M | Siemens | 4 | 1051 | 1051 | 600 | 57.15 | 432 | 584 | 394 | 394 | 630 | 957 | 1058 | 65 | 4 |
| 75 | 280S | Siemens | 4 | 1051 | 1051 | 600 | 57.15 | 432 | 584 | 454 | 454 | 630 | 1014 | 1141 | 75 | 4 |
| 90 | 280M | Siemens | 4 | 1051 | 1051 | 600 | 57.15 | 432 | 584 | 454 | 454 | 630 | 1069 | 1141 | 75 | 4 |
| 110 | 315S | Siemens | 4 | 1051 | 1051 | 600 | 57.15 | 432 | 584 | 434 | 434 | 630 | 1127 | 1227 | 80 | 4 |
| 132 | 315MA | Siemens | 4 | 1051 | 1051 | 600 | 57.15 | 432 | 584 | 434 | 434 | 630 | 1127 | 1227 | 80 | 4 |
| 160 | 315L | Siemens | 4 | 1051 | 1051 | 600 | 57.15 | 432 | 584 | 434 | 434 | 630 | 1357 | 1227 | 80 | 4 |
| 200 | 315L | Siemens | 4 | 1051 | 1051 | 600 | 57.15 | 432 | 584 | 434 | 434 | 630 | 1357 | 1227 | 80 | 4 |
| 55 | 250MC | MMG-G | 4 | 1051 | 1051 | 600 | 57.15 | 432 | 584 | 394 | 394 | 630 | 921 | 1048 | 65 | 4 |
| 75 | 280SB | MMG-G | 4 | 1051 | 1051 | 600 | 57.15 | 432 | 584 | 454 | 454 | 630 | 1037.5 | 1141 | 75 | 4 |
| 90 | 280MB | MMG-G | 4 | 1051 | 1051 | 600 | 57.15 | 432 | 584 | 454 | 454 | 630 | 1087.5 | 1141 | 75 | 4 |
| 110 | 315SB | MMG-G | 4 | 1051 | 1051 | 600 | 57.15 | 432 | 584 | 434 | 434 | 630 | 1246 | 1216 | 80 | 4 |
| 132 | 315MB | MMG-G | 4 | 1051 | 1051 | 600 | 57.15 | 432 | 584 | 434 | 434 | 630 | 1296 | 1216 | 80 | 4 |
| 160 | 315LB | MMG-G | 4 | 1051 | 1051 | 600 | 57.15 | 432 | 584 | 434 | 434 | 630 | 1396 | 1216 | 80 | 4 |
| 200 | 315LC | MMG-G | 4 | 1051 | 1051 | 600 | 57.15 | 432 | 584 | 434 | 434 | 630 | 1396 | 1216 | 80 | 4 |

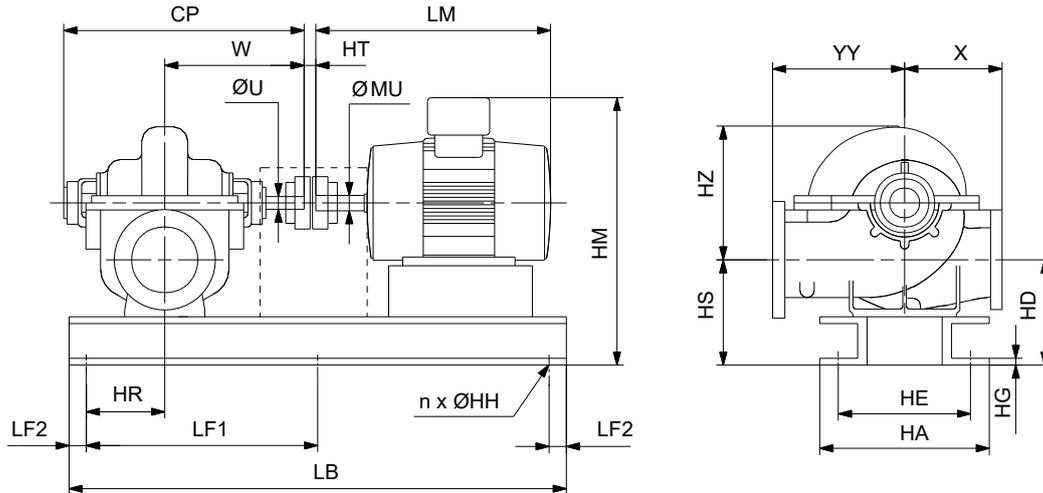
| Motor | | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] |
|---------|------------|---------|------|----------------------------|-----|----|-----|-----|-----|------|---|-----|-----------------|--------------|-----------|------------------|-------|-------|----------------------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | Shipping volume [m³] |
| | | | | | | | | | | | | | | | | | | | |
| 75 | 280S | Siemens | 4 | 1800 | 200 | 80 | 700 | 600 | 538 | 11 | 6 | 23 | 171 | 171 | 44 | 991 | 575 | 1764 | 3.34 |
| 90 | 280M | Siemens | 4 | 1800 | 200 | 80 | 700 | 600 | 538 | 11 | 6 | 23 | 171 | 171 | 154 | 991 | 675 | 1864 | 3.51 |
| 110 | 315S | Siemens | 4 | 1960 | 200 | 80 | 780 | 632 | 632 | 10.5 | 6 | 23 | 171 | 171 | 6 | 991 | 810 | 2017 | 3.70 |
| 132 | 315MA | Siemens | 4 | 1960 | 200 | 80 | 780 | 632 | 632 | 10.5 | 6 | 23 | 171 | 171 | 171 | 991 | 965 | 2172 | 3.96 |
| 160 | 315L | Siemens | 4 | 1960 | 200 | 80 | 780 | 632 | 632 | 10.5 | 6 | 23 | 171 | 171 | 171 | 991 | 1100 | 2307 | 3.96 |
| 200 | 315L | Siemens | 4 | 1960 | 200 | 80 | 780 | 632 | 632 | 10.5 | 6 | 23 | 171 | 171 | 171 | 991 | 1300 | 2507 | 3.96 |
| 55 | 250MC | MMG-G | 4 | 1700 | 200 | 80 | 650 | 560 | 512 | 9 | 6 | 18 | 171 | 171 | 105 | 991 | 480 | 1471 | 3.911 |
| 75 | 280SB | MMG-G | 4 | 1800 | 200 | 80 | 700 | 600 | 538 | 11 | 6 | 23 | 171 | 171 | 121 | 991 | 621 | 1612 | 4.842 |
| 90 | 280MB | MMG-G | 4 | 1800 | 200 | 80 | 700 | 600 | 538 | 11 | 6 | 23 | 171 | 171 | 171 | 991 | 706 | 1697 | 4.950 |
| 110 | 315SB | MMG-G | 4 | 1960 | 200 | 80 | 780 | 670 | 620 | 10.5 | 6 | 23 | 171 | 171 | 170 | 991 | 920 | 1911 | 5.533 |
| 132 | 315MB | MMG-G | 4 | 1960 | 200 | 80 | 780 | 632 | 632 | 10.5 | 6 | 23 | 171 | 171 | 220 | 991 | 1000 | 1991 | 5.646 |
| 160 | 315LB | MMG-G | 4 | 1960 | 200 | 80 | 780 | 632 | 632 | 10.5 | 6 | 23 | 171 | 171 | 320 | 991 | 1070 | 2061 | 5.871 |
| 200 | 315LC | MMG-G | 4 | 1960 | 200 | 80 | 780 | 632 | 632 | 10.5 | 6 | 23 | 171 | 171 | 320 | 991 | 1260 | 2251 | 5.871 |

LS 350-250-498



TM072682

LS 350-250-498 dimensional sketches



TM072172

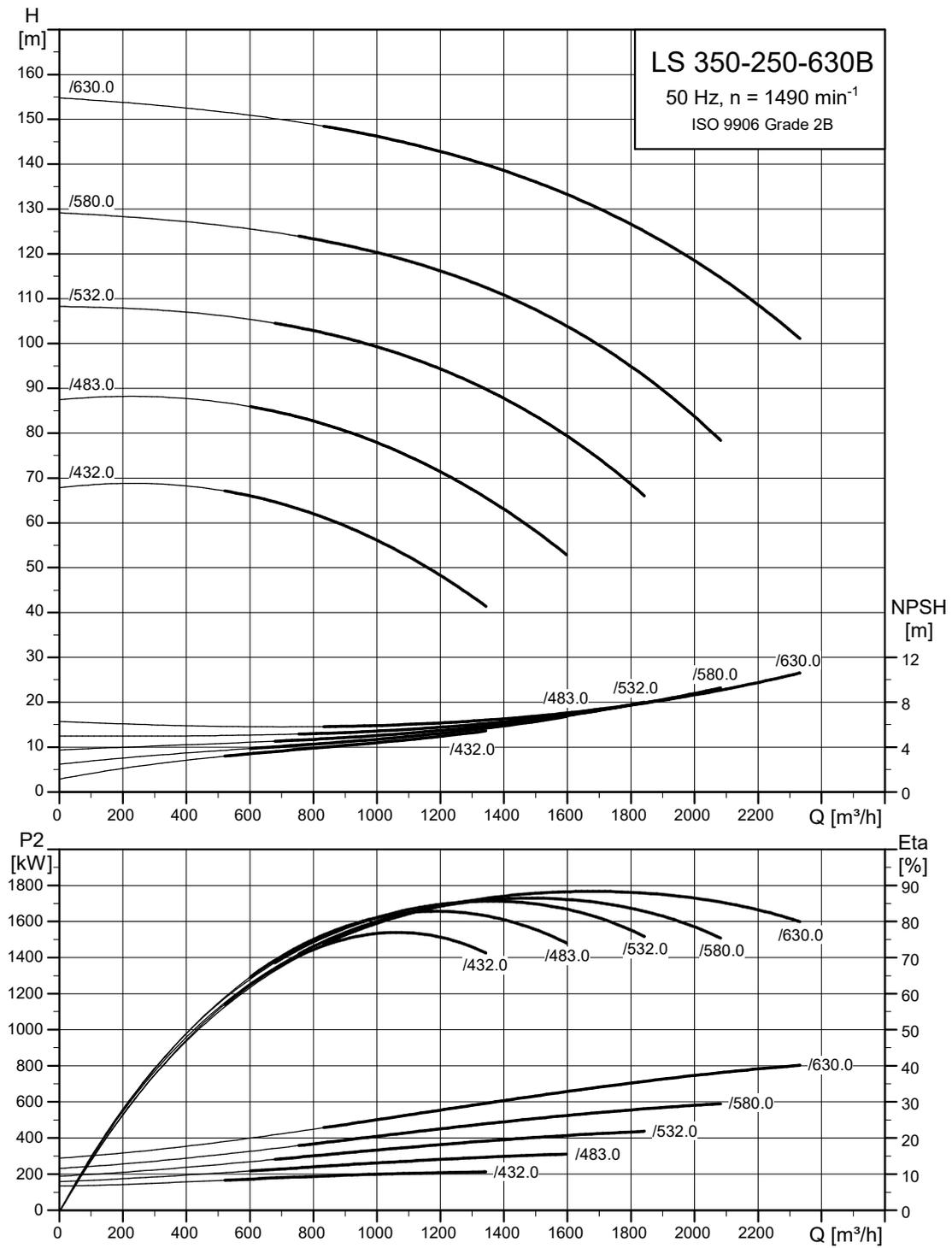
LS 350-250-498 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | Motor dimensions [mm] | | | | Distance between shaft ends [mm] | | |
|---------|------------|---------|------|----------------------|--------------|-----|-------|-----|-----|-----------------------|-----|-----|------|----------------------------------|-----|----|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 160 | 315L | Siemens | 4 | 1403 | 1403 | 797 | 79.38 | 508 | 660 | 446 | 446 | 785 | 1357 | 1325 | 80 | 4 |
| 200 | 315L | Siemens | 4 | 1403 | 1403 | 797 | 79.38 | 508 | 660 | 446 | 446 | 785 | 1357 | 1325 | 80 | 4 |
| 250 | 315L | Siemens | 4 | 1403 | 1403 | 797 | 79.38 | 508 | 660 | 426 | 426 | 785 | 1410 | 1266 | 85 | 4 |
| 315 | 315L | Siemens | 4 | 1403 | 1403 | 797 | 79.38 | 508 | 660 | 426 | 426 | 785 | 1400 | 1266 | 85 | 4 |
| 355 | 355L | Siemens | 4 | 1403 | 1403 | 797 | 79.38 | 508 | 660 | 446 | 446 | 785 | 1835 | 1483 | 95 | 20 |
| 400 | 355L | Siemens | 4 | 1403 | 1403 | 797 | 79.38 | 508 | 660 | 446 | 446 | 785 | 1635 | 1191 | 95 | 5 |
| 500 | 355L | Siemens | 4 | 1403 | 1403 | 797 | 79.38 | 508 | 660 | 446 | 446 | 785 | 1835 | 1200 | 95 | 5 |
| 160 | 315LB | MMG-G | 4 | 1403 | 1403 | 797 | 79.38 | 508 | 660 | 446 | 446 | 785 | 1396 | 1314 | 80 | 4 |
| 200 | 315LC | MMG-G | 4 | 1403 | 1403 | 797 | 79.38 | 508 | 660 | 446 | 446 | 785 | 1396 | 1314 | 80 | 4 |
| 250 | 355MB | MMG-G | 4 | 1403 | 1403 | 797 | 79.38 | 508 | 660 | 426 | 426 | 785 | 1605 | 1411 | 100 | 4 |
| 315 | 355LB | MMG-G | 4 | 1403 | 1403 | 797 | 79.38 | 508 | 660 | 426 | 426 | 785 | 1605 | 1411 | 100 | 4 |
| 355 | 355CB | MMG-G | 4 | 1403 | 1403 | 797 | 79.38 | 508 | 660 | 446 | 446 | 785 | 1795 | 1431 | 100 | 4 |
| 400 | 315DB | MMG-G | 4 | 1403 | 1403 | 797 | 79.38 | 508 | 660 | 446 | 446 | 785 | 1841 | 1452 | 95 | 3 |
| 425 | 355CB | MMG-G | 4 | 1403 | 1403 | 797 | 79.38 | 508 | 660 | 446 | 446 | 785 | 1894 | 1548 | 95 | 3 |
| 450 | 355CB | MMG-G | 4 | 1403 | 1403 | 797 | 79.38 | 508 | 660 | 446 | 446 | 785 | 1894 | 1548 | 95 | 3 |
| 475 | 355CB | MMG-G | 4 | 1403 | 1403 | 797 | 79.38 | 508 | 660 | 446 | 446 | 785 | 1894 | 1548 | 95 | 3 |
| 500 | 355CB | MMG-G | 4 | 1403 | 1403 | 797 | 79.38 | 508 | 660 | 446 | 446 | 785 | 1894 | 1548 | 95 | 3 |

| Motor | | | | Base frame dimensions [mm] | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] | |
|---------|------------|---------|------|----------------------------|-----|-----|------|-----|-------|------|---|---------------|-----------------|--------------|------------------|------|-------|----------------------|----------------------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | Shipping volume [m³] |
| | | | | | | | | | | | | | | | | | | | |
| 200 | 315L | Siemens | 4 | 2200 | 200 | 150 | 900 | 680 | 620 | 11 | 6 | 23 | 256 | 256 | 198 | 1436 | 1300 | 3023 | 5.47 |
| 250 | 315L | Siemens | 4 | 2310 | 200 | 150 | 955 | 720 | 663 | 10.5 | 6 | 23 | 256 | 256 | 360 | 1436 | 1300 | 3048 | 5.64 |
| 315 | 315L | Siemens | 4 | 2310 | 200 | 150 | 955 | 720 | 663 | 10.5 | 6 | 23 | 256 | 256 | 350 | 1436 | 1500 | 3248 | 5.62 |
| 355 | 355L | Siemens | 4 | 2570 | 200 | 150 | 1085 | 815 | 760 | 11 | 6 | 23 | 256 | 256 | 415 | 1436 | 1900 | 3718 | 7.45 |
| 400 | 355L | Siemens | 4 | 2570 | 200 | 150 | 1085 | 815 | 760 | 11 | 6 | 23 | 256 | 256 | 215 | 1436 | 2000 | 3818 | 5.90 |
| 500 | 355L | Siemens | 4 | 2570 | 200 | 150 | 1085 | 815 | 760 | 11 | 6 | 23 | 256 | 256 | 417 | 1436 | 2200 | 4018 | 6.27 |
| 160 | 315LB | MMG-G | 4 | 2300 | 250 | 100 | 900 | 680 | 620 | 11 | 6 | 23 | 256 | 256 | 247 | 1436 | 1070 | 2506 | 7.861 |
| 200 | 315LC | MMG-G | 4 | 2300 | 250 | 100 | 900 | 680 | 620 | 11 | 6 | 23 | 256 | 256 | 247 | 1436 | 1260 | 2696 | 7.861 |
| 250 | 355MB | MMG-G | 4 | 2510 | 200 | 150 | 1055 | 820 | 762.5 | 10.5 | 6 | 23 | 256 | 256 | 246 | 1436 | 1820 | 3256 | 8.870 |
| 315 | 355LB | MMG-G | 4 | 2510 | 200 | 150 | 1055 | 820 | 762.5 | 10.5 | 6 | 23 | 256 | 256 | 246 | 1436 | 2150 | 3586 | 8.870 |
| 355 | 355CB | MMG-G | 4 | 2850 | 340 | 10 | 1085 | 815 | 760 | 11 | 6 | 23 | 256 | 256 | 96 | 1436 | 2300 | 3736 | 9.502 |
| 400 | 315DB | MMG-G | 4 | 2650 | 200 | 148 | 1125 | 705 | 637 | 11 | 6 | 18 | 258 | 258 | 339 | 1436 | 2180 | 3616 | 9.734 |

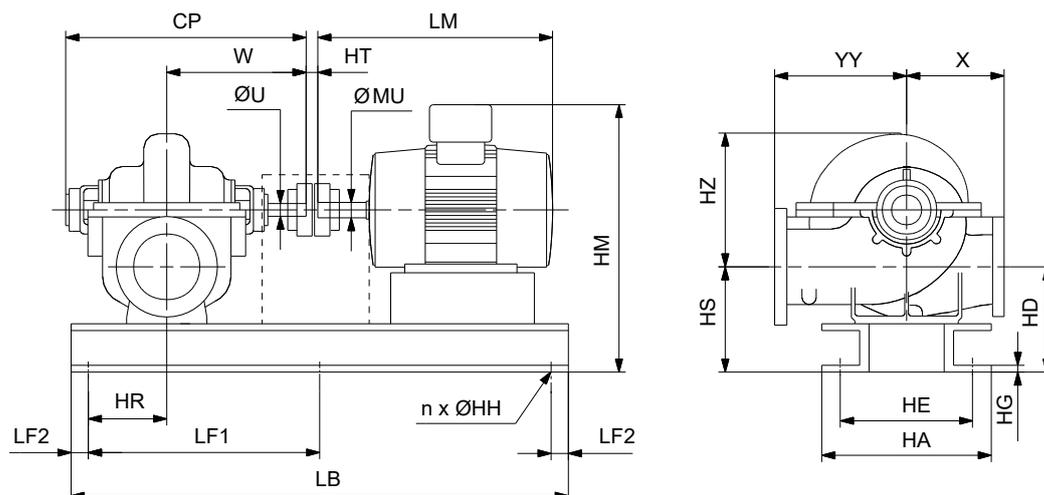
| P2 [kW] | Motor | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m ³] |
|------------|---------------|-------|------|----------------------------|-----|-----|------|-----|-----|----|---|-----|--------------------|-----------------|--------------|------------------|-------|-------|---|
| | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | |
| 425 | 355CB | MMG-G | 4 | 2700 | 200 | 148 | 1150 | 825 | 757 | 11 | 6 | 18 | 258 | 258 | 342 | 1436 | 2450 | 3886 | 10.372 |
| 450 | 355CB | MMG-G | 4 | 2700 | 200 | 148 | 1150 | 825 | 757 | 11 | 6 | 18 | 258 | 258 | 342 | 1436 | 2610 | 4046 | 10.372 |
| 475 | 355CB | MMG-G | 4 | 2700 | 200 | 148 | 1150 | 825 | 757 | 11 | 6 | 18 | 258 | 258 | 342 | 1436 | 2610 | 4046 | 10.372 |
| 500 | 355CB | MMG-G | 4 | 2700 | 200 | 148 | 1150 | 825 | 757 | 11 | 6 | 18 | 258 | 258 | 342 | 1436 | 2700 | 4136 | 10.372 |

LS 350-250-630



TM072684

LS 350-250-630 dimensional sketches



TM072172

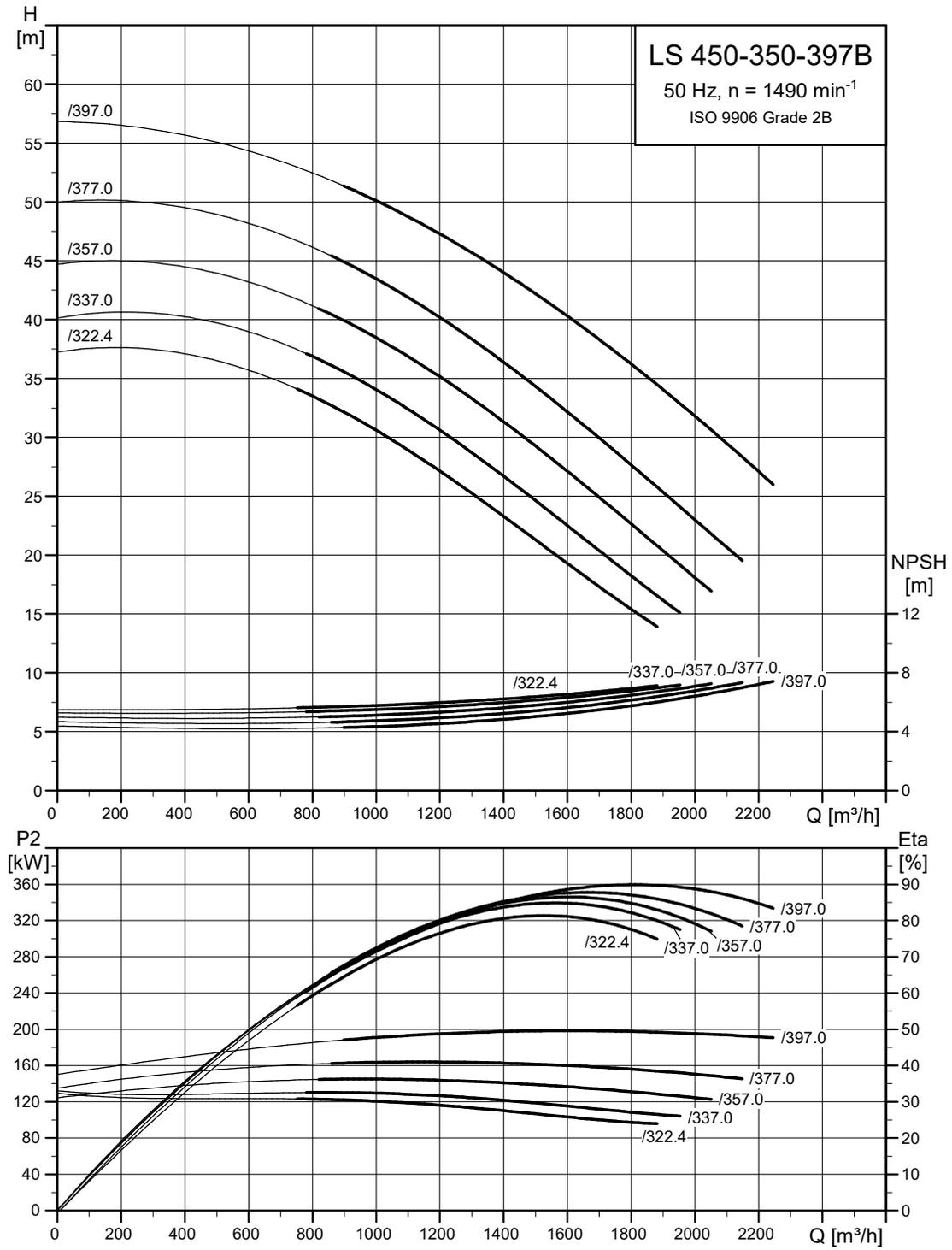
LS 350-250-630 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | Motor dimensions [mm] | | | | Distance between shaft ends [mm] | |
|---------|------------|---------|------|----------------------|--------------|-----|-------|-----|-----|-----|-----------------------|-----|------|------|----------------------------------|----|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 250 | 315L | Siemens | 4 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 505 | 505 | 820 | 1410 | 1335 | 85 | 4 |
| 315 | 315L | Siemens | 4 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 505 | 505 | 820 | 1400 | 1335 | 85 | 4 |
| 355 | 355L | Siemens | 4 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 485 | 485 | 820 | 1835 | 1512 | 95 | 4 |
| 400 | 355L | Siemens | 4 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 485 | 485 | 820 | 1635 | 1171 | 95 | 5 |
| 500 | 355L | Siemens | 4 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 485 | 485 | 820 | 1835 | 1180 | 95 | 5 |
| 560 | 355L | Siemens | 4 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 505 | 505 | 820 | 1835 | 1265 | 110 | 5 |
| 630 | 355L | Siemens | 4 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 505 | 505 | 820 | 1835 | 865 | 110 | 5 |
| 250 | 355MB | MMG-G | 4 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 505 | 505 | 820 | 1605 | 1480 | 100 | 4 |
| 315 | 355LB | MMG-G | 4 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 505 | 505 | 820 | 1605 | 1480 | 100 | 4 |
| 355 | 355CB | MMG-G | 4 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 485 | 485 | 820 | 1795 | 1460 | 100 | 4 |
| 400 | 315DB | MMG-G | 4 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 505 | 505 | 820 | 1841 | 1501 | 95 | 3 |
| 425 | 355CB | MMG-G | 4 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 485 | 485 | 820 | 1894 | 1577 | 95 | 4 |
| 450 | 355CB | MMG-G | 4 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 485 | 485 | 820 | 1894 | 1577 | 95 | 4 |
| 475 | 355CB | MMG-G | 4 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 485 | 485 | 820 | 1894 | 1577 | 95 | 4 |
| 500 | 355CB | MMG-G | 4 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 485 | 485 | 820 | 1894 | 1577 | 95 | 4 |
| 530 | 355CB | MMG-G | 4 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 485 | 485 | 820 | 1894 | 1577 | 95 | 4 |
| 560 | 400CB | MMG-G | 4 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 505 | 505 | 820 | 2080 | 1609 | 110 | 6 |
| 600 | 400CB | MMG-G | 4 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 505 | 505 | 820 | 2080 | 1609 | 110 | 6 |

| Motor | | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] |
|---------|------------|---------|------|----------------------------|-----|-----|------|-----|-------|------|---|-----|-----------------|--------------|-----------|------------------|-------|-------|----------------------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | Shipping volume [m³] |
| | | | | | | | | | | | | | | | | | | | |
| 315 | 315L | Siemens | 4 | 2310 | 200 | 150 | 955 | 724 | 656 | 11 | 6 | 23 | 228 | 228 | 242 | 1905 | 1500 | 3722 | 6.50 |
| 355 | 355L | Siemens | 4 | 2570 | 200 | 150 | 1085 | 835 | 778 | 10.5 | 6 | 23 | 228 | 228 | 417 | 1905 | 1900 | 4149 | 8.37 |
| 400 | 355L | Siemens | 4 | 2570 | 200 | 150 | 1085 | 835 | 778 | 10.5 | 6 | 23 | 228 | 228 | 217 | 1905 | 2000 | 4249 | 6.87 |
| 500 | 355L | Siemens | 4 | 2570 | 200 | 150 | 1085 | 835 | 778 | 10.5 | 6 | 23 | 228 | 228 | 419 | 1905 | 2200 | 4449 | 7.30 |
| 560 | 355L | Siemens | 4 | 2710 | 200 | 150 | 1155 | 906 | 844 | 11 | 6 | 23 | 228 | 228 | 279 | 1905 | 2800 | 5106 | 7.41 |
| 630 | 355L | Siemens | 4 | 2710 | 200 | 150 | 1155 | 906 | 844 | 11 | 6 | 23 | 228 | 228 | 279 | 1905 | 3000 | 5306 | 7.41 |
| 250 | 355MB | MMG-G | 4 | 2550 | 320 | 30 | 955 | 790 | 740 | 11 | 6 | 23 | 228 | 228 | 208 | 1905 | 1820 | 3725 | 10.065 |
| 315 | 355LB | MMG-G | 4 | 2550 | 320 | 30 | 955 | 790 | 740 | 11 | 6 | 23 | 228 | 228 | 208 | 1905 | 2150 | 4055 | 10.065 |
| 355 | 355CB | MMG-G | 4 | 2770 | 200 | 150 | 1185 | 835 | 777.5 | 10.5 | 6 | 23 | 228 | 228 | 178 | 1905 | 2300 | 4205 | 10.566 |
| 400 | 315DB | MMG-G | 4 | 2650 | 200 | 148 | 1125 | 747 | 679 | 10.5 | 6 | 18 | 230 | 230 | 341 | 1905 | 2180 | 4085 | 10.934 |
| 425 | 355CB | MMG-G | 4 | 2770 | 200 | 150 | 1185 | 835 | 777.5 | 10.5 | 6 | 23 | 228 | 228 | 277 | 1905 | 2450 | 4355 | 11.531 |
| 450 | 355CB | MMG-G | 4 | 2770 | 200 | 150 | 1185 | 835 | 777.5 | 10.5 | 6 | 23 | 228 | 228 | 277 | 1905 | 2610 | 4515 | 11.531 |

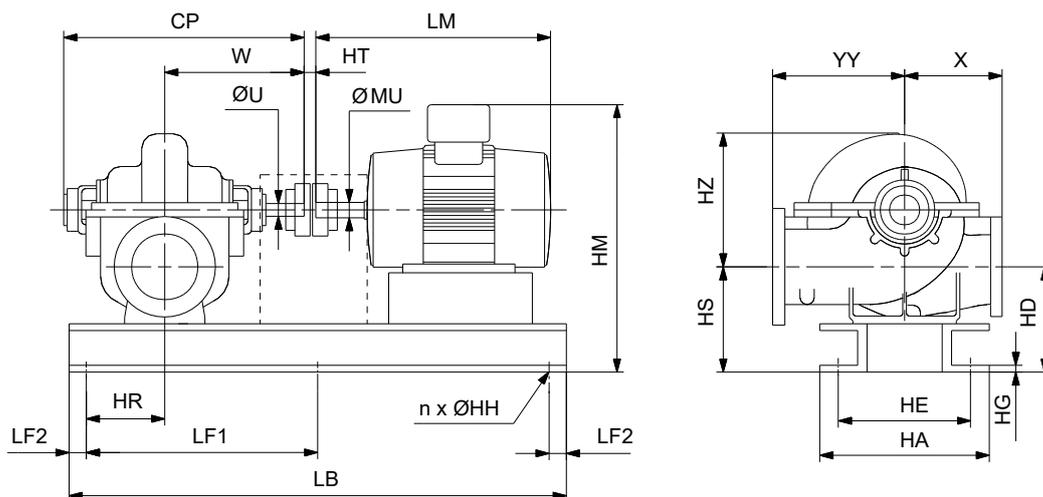
| P2 [kW] | Motor | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m ³] |
|------------|---------------|-------|------|----------------------------|-----|-----|------|-----|-------|------|---|-----|--------------------|-----------------|--------------|------------------|-------|-------|---|
| | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | |
| 475 | 355CB | MMG-G | 4 | 2770 | 200 | 150 | 1185 | 835 | 777.5 | 10.5 | 6 | 23 | 228 | 228 | 277 | 1905 | 2610 | 4515 | 11.531 |
| 500 | 355CB | MMG-G | 4 | 2770 | 200 | 150 | 1185 | 835 | 777.5 | 10.5 | 6 | 23 | 228 | 228 | 277 | 1905 | 2700 | 4605 | 11.531 |
| 530 | 355CB | MMG-G | 4 | 2770 | 200 | 150 | 1185 | 835 | 777.5 | 10.5 | 6 | 23 | 228 | 228 | 277 | 1905 | 2800 | 4705 | 11.531 |
| 560 | 400CB | MMG-G | 4 | 2890 | 200 | 148 | 1245 | 865 | 797 | 10.5 | 6 | 18 | 230 | 230 | 343 | 1905 | 3260 | 5165 | 12.352 |
| 600 | 400CB | MMG-G | 4 | 2890 | 200 | 148 | 1245 | 865 | 797 | 10.5 | 6 | 18 | 230 | 230 | 343 | 1905 | 3430 | 5335 | 12.352 |

LS 450-350-397



TM072687

LS 450-350-397 dimensional sketches



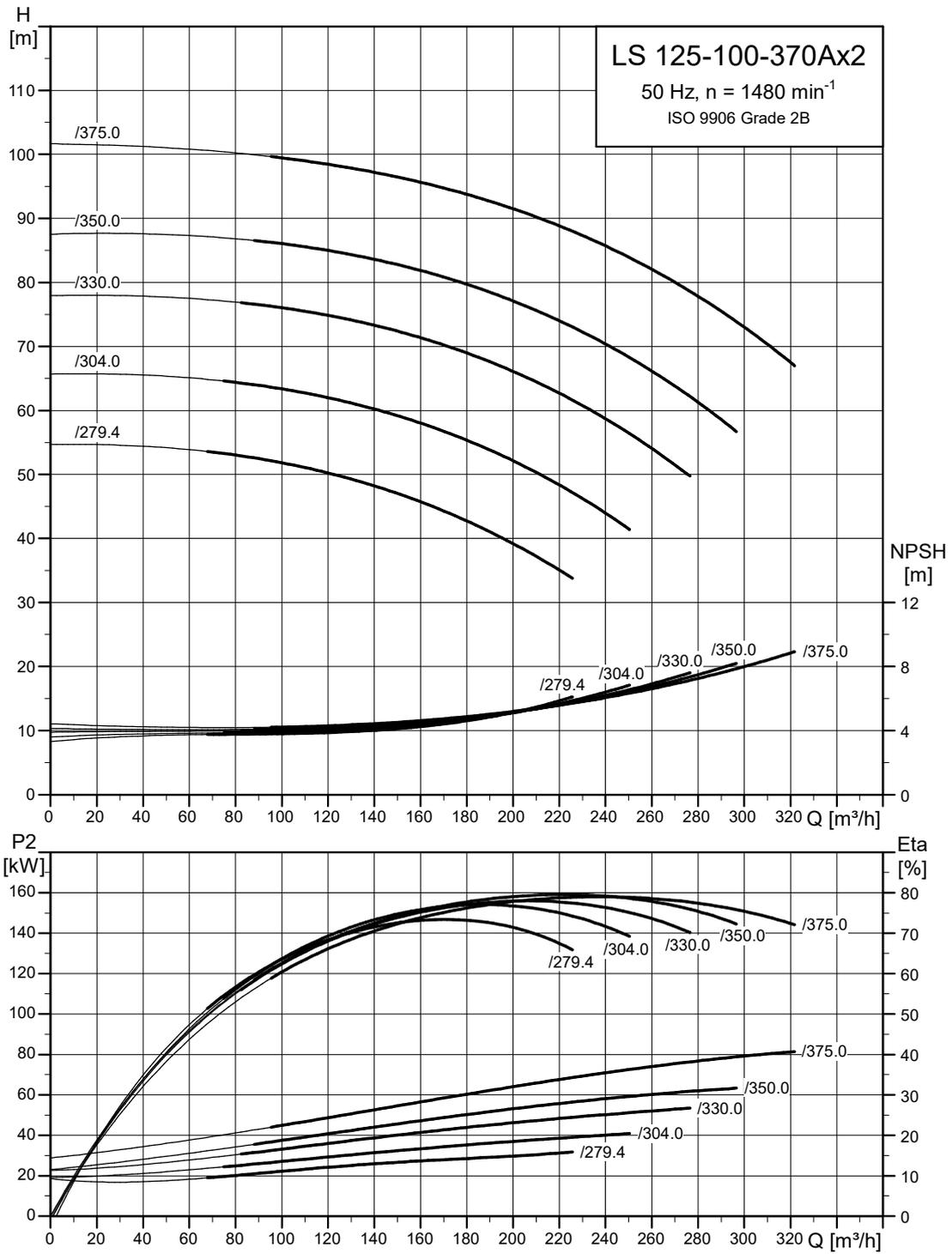
TM072172

LS 450-350-397 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | Motor dimensions [mm] | | | Distance between shaft ends [mm] | | |
|---------|------------|---------|------|----------------------|--------------|-------|------|-----|-----|-----|-----------------------|-----|------|----------------------------------|-----|----|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 110 | 315S | Siemens | 4 | 1400 | 1400 | 773.5 | 63.5 | 545 | 625 | 485 | 485 | 730 | 1127 | 1409 | 80 | 4 |
| 132 | 315MA | Siemens | 4 | 1400 | 1400 | 773.5 | 63.5 | 545 | 625 | 485 | 485 | 730 | 1127 | 1409 | 80 | 4 |
| 160 | 315L | Siemens | 4 | 1400 | 1400 | 773.5 | 63.5 | 545 | 625 | 485 | 485 | 730 | 1357 | 1409 | 80 | 4 |
| 200 | 315L | Siemens | 4 | 1400 | 1400 | 773.5 | 63.5 | 545 | 625 | 485 | 485 | 730 | 1357 | 1409 | 80 | 4 |
| 250 | 315L | Siemens | 4 | 1400 | 1400 | 773.5 | 63.5 | 545 | 625 | 485 | 485 | 730 | 1410 | 1370 | 85 | 4 |
| 110 | 315SB | MMG-G | 4 | 1400 | 1400 | 773.5 | 63.5 | 545 | 625 | 485 | 485 | 730 | 1246 | 1378 | 80 | 4 |
| 132 | 315MB | MMG-G | 4 | 1400 | 1400 | 773.5 | 63.5 | 545 | 625 | 485 | 485 | 730 | 1296 | 1378 | 80 | 4 |
| 160 | 315LB | MMG-G | 4 | 1400 | 1400 | 773.5 | 63.5 | 545 | 625 | 485 | 485 | 730 | 1396 | 1378 | 80 | 4 |
| 200 | 315LC | MMG-G | 4 | 1400 | 1400 | 773.5 | 63.5 | 545 | 625 | 485 | 485 | 730 | 1396 | 1378 | 80 | 4 |
| 250 | 355MB | MMG-G | 4 | 1400 | 1400 | 773.5 | 63.5 | 545 | 625 | 485 | 485 | 730 | 1605 | 1495 | 100 | 4 |

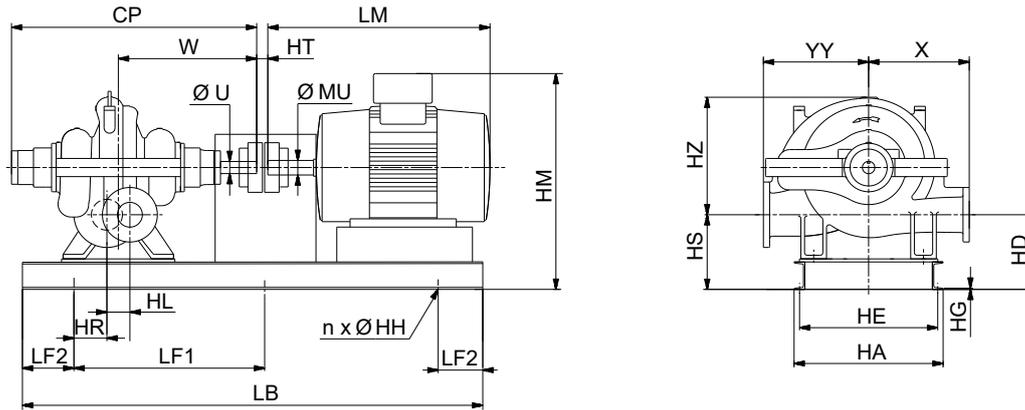
| Motor | | | | Base frame dimensions [mm] | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] | |
|---------|------------|---------|------|----------------------------|-----|-----|------|-----|-------|----|---|---------------|-----------------|--------------|------------------|------|-------|----------------------|-------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | | Total |
| 110 | 315S | Siemens | 4 | 2330 | 200 | 230 | 1016 | 805 | 755 | 11 | 6 | 23 | 146 | 146 | - | 1905 | 2000 | 4246 | 6.06 |
| 132 | 315MA | Siemens | 4 | 2330 | 200 | 230 | 1016 | 805 | 755 | 11 | 6 | 23 | 146 | 146 | 74 | 1905 | 2200 | 4446 | 6.22 |
| 160 | 315L | Siemens | 4 | 2330 | 200 | 230 | 1016 | 805 | 755 | 11 | 6 | 23 | 146 | 146 | 74 | 1905 | 2800 | 5046 | 6.51 |
| 200 | 315L | Siemens | 4 | 2330 | 200 | 230 | 1016 | 805 | 755 | 11 | 6 | 23 | 146 | 146 | 74 | 1905 | 3000 | 5246 | 6.51 |
| 250 | 315L | Siemens | 4 | 2330 | 200 | 230 | 1016 | 805 | 755 | 11 | 6 | 23 | 146 | 146 | 74 | 1460 | 1270 | 2730 | 5.60 |
| 110 | 315SB | MMG-G | 4 | 2330 | 200 | 228 | 965 | 805 | 754.5 | 11 | 6 | 23 | 199 | 199 | 121 | 1905 | 920 | 2825 | 7.727 |
| 132 | 315MB | MMG-G | 4 | 2330 | 200 | 228 | 965 | 805 | 754.5 | 11 | 6 | 23 | 199 | 199 | 171 | 1905 | 1000 | 2905 | 7.865 |
| 160 | 315LB | MMG-G | 4 | 2330 | 200 | 228 | 965 | 805 | 754.5 | 11 | 6 | 23 | 199 | 199 | 271 | 1905 | 1070 | 2975 | 8.141 |
| 200 | 315LC | MMG-G | 4 | 2330 | 200 | 228 | 965 | 805 | 754.5 | 11 | 6 | 23 | 199 | 199 | 271 | 1905 | 1260 | 3165 | 8.141 |
| 250 | 355MB | MMG-G | 4 | 2510 | 200 | 230 | 1055 | 805 | 749 | 11 | 6 | 23 | 197 | 197 | 303 | 1460 | 1820 | 3280 | 9.265 |

LS 125-100-370x2



TM072751

LS 125-100-370x2 dimensional sketches



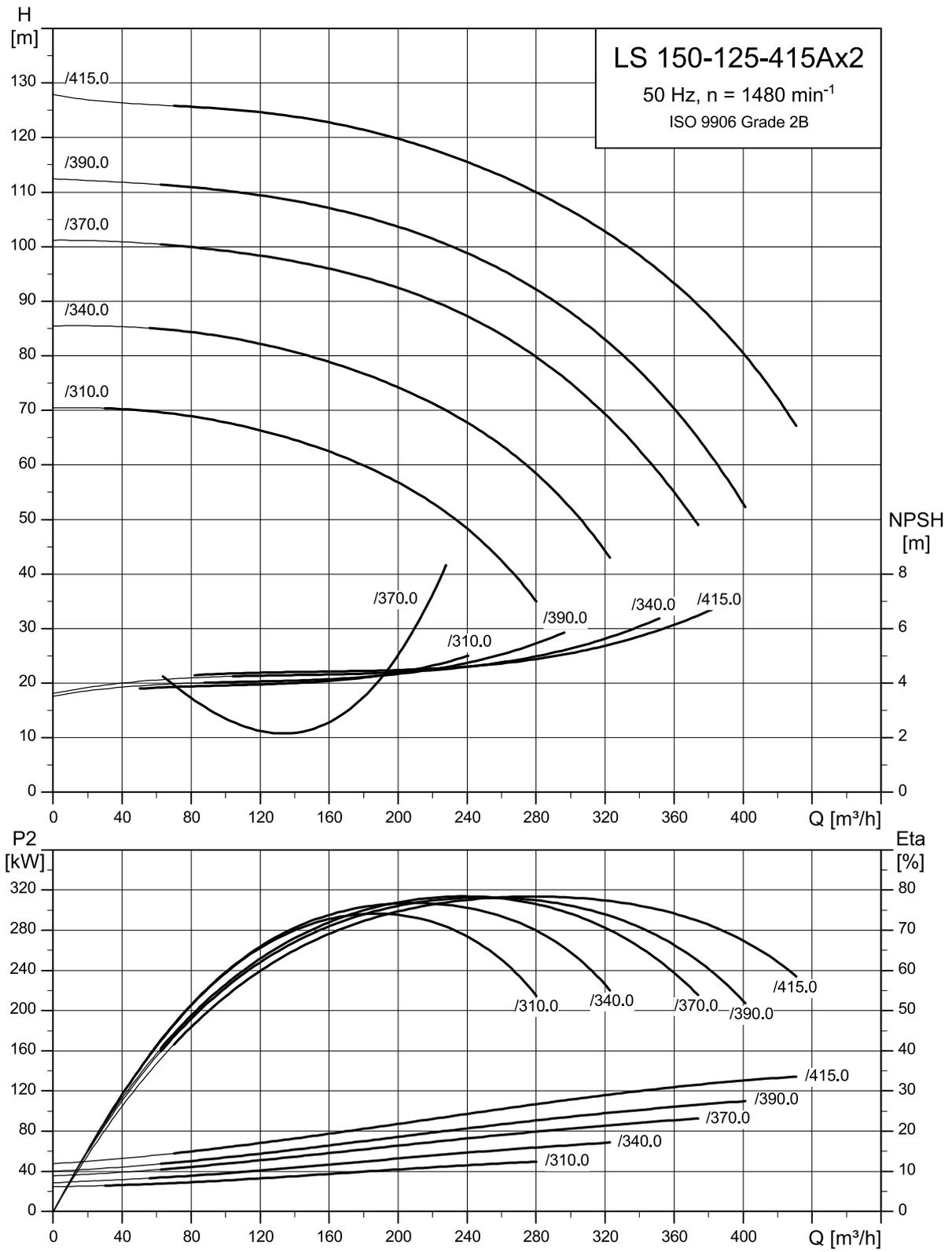
TM072170

LS 125-100-370x2 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | Motor dimensions [mm] | | | | Distance between shaft ends [mm] | Shipping volume [m ³] | |
|---------|------------|-------|------|----------------------|-----|-------|-----|-----|-----------------------|-----|--------|------|----------------------------------|-----------------------------------|-------|
| P2 [kW] | Frame size | Brand | Pole | CP | W | ØU | X | YY | HD/HS | HZ | LM | HM | ØMU | HT | |
| 37 | 225SC | MMG-G | 4 | 980 | 540 | 44.45 | 340 | 350 | 280 | 565 | 816 | 848 | 60 | 4 | 2.329 |
| 45 | 225MC | MMG-G | 4 | 980 | 540 | 44.45 | 340 | 350 | 280 | 565 | 841 | 848 | 60 | 4 | 2.357 |
| 55 | 250MC | MMG-G | 4 | 980 | 540 | 44.45 | 340 | 350 | 280 | 565 | 921 | 890 | 65 | 4 | 2.526 |
| 75 | 280SB | MMG-G | 4 | 980 | 540 | 44.45 | 340 | 350 | 280 | 565 | 1037.5 | 923 | 75 | 12 | 3.070 |
| 90 | 280MB | MMG-G | 4 | 980 | 540 | 44.45 | 340 | 350 | 280 | 565 | 1087.5 | 923 | 75 | 12 | 3.141 |
| 110 | 315SB | MMG-G | 4 | 980 | 540 | 44.45 | 340 | 350 | 280 | 565 | 1246 | 1018 | 80 | 16 | 3.689 |

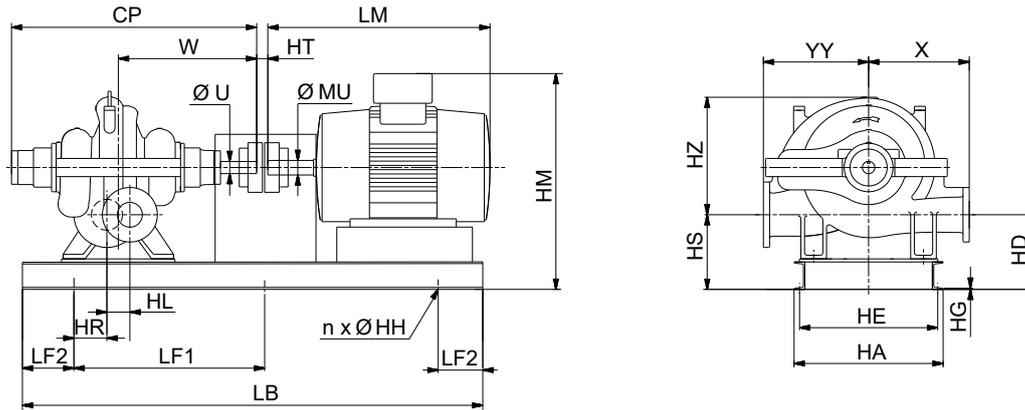
| Motor | | | | Base frame dimensions [mm] | | | | | | | Overhang [mm] | | | Net weights [kg] | | | | |
|---------|------------|-------|------|----------------------------|-----|------|-----|--------|-----|-----|---------------|---|-----|------------------|-------|------|-------|-------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | HL | LF1 | HA | HE | HG | n | ØHH | Pump | Motor | Pump | Motor | Total |
| 37 | 225SC | MMG-G | 4 | 1610 | 200 | 36.5 | 145 | 605 | 590 | 548 | 9 | 6 | 23 | 204 | - | 350 | 350 | 700 |
| 45 | 225MC | MMG-G | 4 | 1634 | 200 | 36.5 | 145 | 617 | 590 | 548 | 9 | 6 | 23 | 204 | - | 350 | 360 | 710 |
| 55 | 250SC | MMG-G | 4 | 1704 | 200 | 36.5 | 145 | 652 | 590 | 548 | 9 | 6 | 23 | 204 | - | 350 | 480 | 830 |
| 75 | 250MC | MMG-G | 4 | 1800 | 200 | 36.5 | 145 | 700 | 590 | 548 | 9 | 6 | 23 | 204 | 26 | 350 | 621 | 971 |
| 90 | 280SB | MMG-G | 4 | 1800 | 200 | 36.5 | 145 | 700 | 590 | 548 | 9 | 6 | 23 | 204 | 76 | 350 | 706 | 1056 |
| 110 | 280MB | MMG-G | 4 | 2041.5 | 200 | 36.5 | 145 | 820.75 | 715 | 673 | 9 | 6 | 23 | 204 | - | 350 | 920 | 1270 |

LS 150-125-415x2



TM072755

LS 150-125-415x2 dimensional sketches



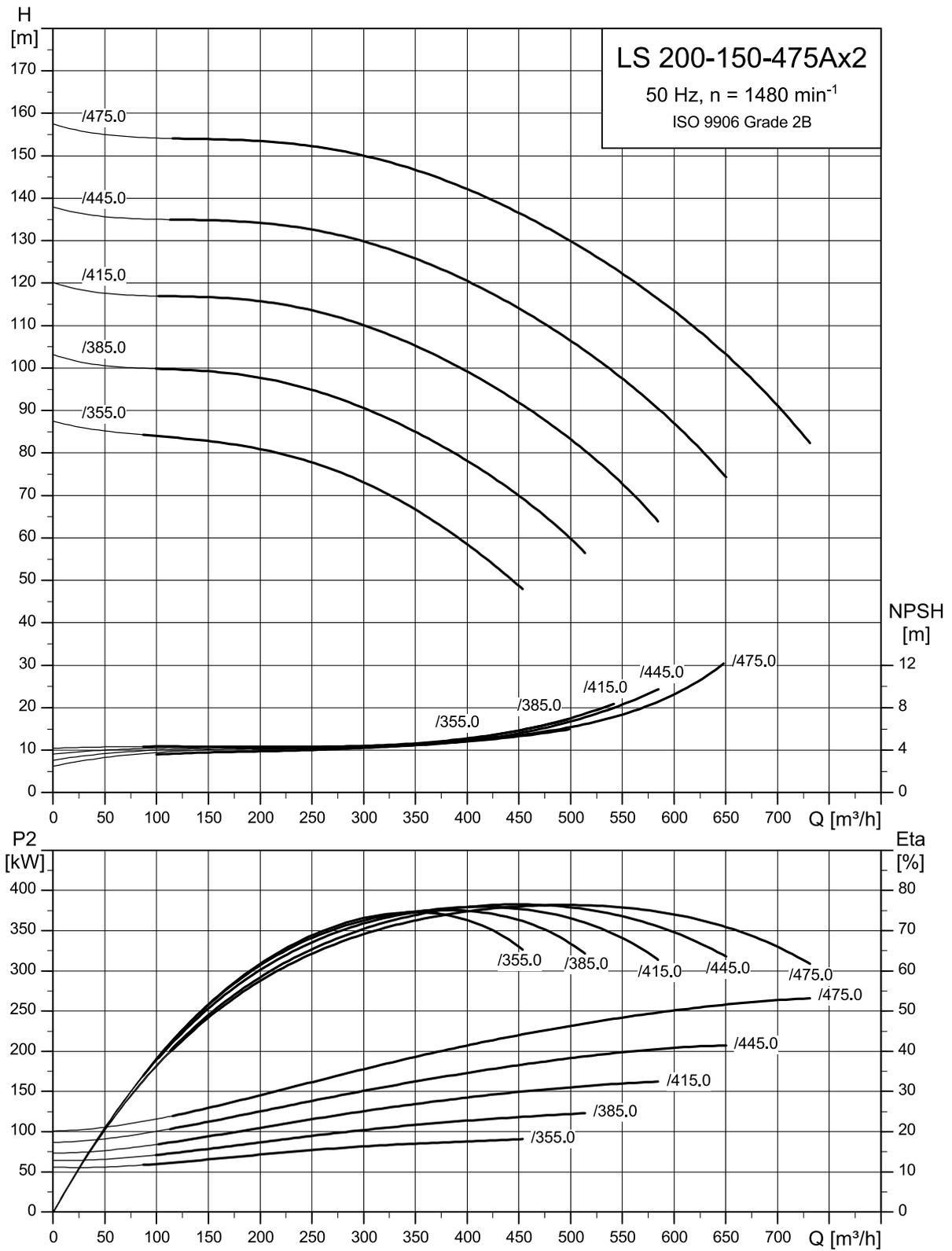
TM072170

LS 150-125-415x2 dimensions

| Motor | | Pump dimensions [mm] | | | | Motor dimensions [mm] | | | | Distance between shaft ends [mm] | | Shipping volume [m ³] | | | |
|---------|------------|----------------------|------|------|-----|-----------------------|-----|-----|-------|----------------------------------|--------|-----------------------------------|-----|----|-------|
| P2 [kW] | Frame size | Brand | Pole | CP | W | ØU | X | YY | HD/HS | HZ | LM | HM | ØMU | HT | |
| 55 | 250MC | MMG-G | 4 | 1059 | 575 | 44.45 | 365 | 375 | 290 | 632 | 921 | 940 | 65 | 4 | 2.863 |
| 75 | 280SB | MMG-G | 4 | 1059 | 575 | 44.45 | 365 | 375 | 290 | 632 | 1037.5 | 973 | 75 | 9 | 3.455 |
| 90 | 280MB | MMG-G | 4 | 1059 | 575 | 44.45 | 365 | 375 | 290 | 632 | 1087.5 | 973 | 75 | 9 | 3.532 |
| 110 | 315SB | MMG-G | 4 | 1059 | 575 | 44.45 | 365 | 375 | 290 | 632 | 1246 | 1068 | 80 | 9 | 4.017 |
| 132 | 315MB | MMG-G | 4 | 1059 | 575 | 44.45 | 365 | 375 | 290 | 632 | 1296 | 1068 | 80 | 9 | 4.098 |
| 160 | 315LB | MMG-G | 4 | 1059 | 575 | 44.45 | 365 | 375 | 290 | 632 | 1396 | 1068 | 80 | 9 | 4.261 |

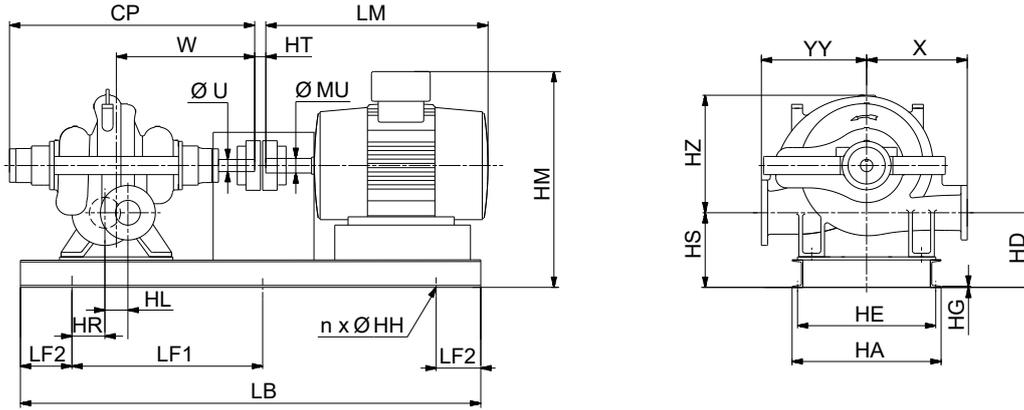
| Motor | | Base frame dimensions [mm] | | | | | | | Overhang [mm] | | | Net weights [kg] | | | | | | |
|---------|------------|----------------------------|------|------|-----|----|-----|-------|---------------|-----|----|------------------|-----|------|-------|------|-------|-------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | HL | LF1 | HA | HE | HG | n | ØHH | Pump | Motor | Pump | Motor | Total |
| 55 | 250MC | MMG-G | 4 | 1774 | 200 | 85 | 140 | 687 | 590 | 548 | 9 | 6 | 23 | 199 | 11 | 530 | 480 | 1010 |
| 75 | 280SB | MMG-G | 4 | 1876 | 200 | 85 | 140 | 738 | 650 | 608 | 9 | 6 | 23 | 199 | 31 | 530 | 621 | 1151 |
| 90 | 280MB | MMG-G | 4 | 1876 | 200 | 85 | 140 | 738 | 650 | 608 | 9 | 6 | 23 | 199 | 81 | 530 | 706 | 1236 |
| 110 | 315SB | MMG-G | 4 | 2095 | 200 | 85 | 140 | 847.5 | 730 | 688 | 9 | 6 | 23 | 199 | 20 | 530 | 920 | 1450 |
| 132 | 315MB | MMG-G | 4 | 2095 | 200 | 85 | 140 | 847.5 | 730 | 688 | 9 | 6 | 23 | 199 | 70 | 530 | 1000 | 1530 |
| 160 | 315LB | MMG-G | 4 | 2095 | 200 | 85 | 140 | 847.5 | 730 | 688 | 9 | 6 | 23 | 199 | 170 | 530 | 1070 | 1600 |

LS 200-150-475x2



TM072759

LS 200-150-475x2 dimensional sketches



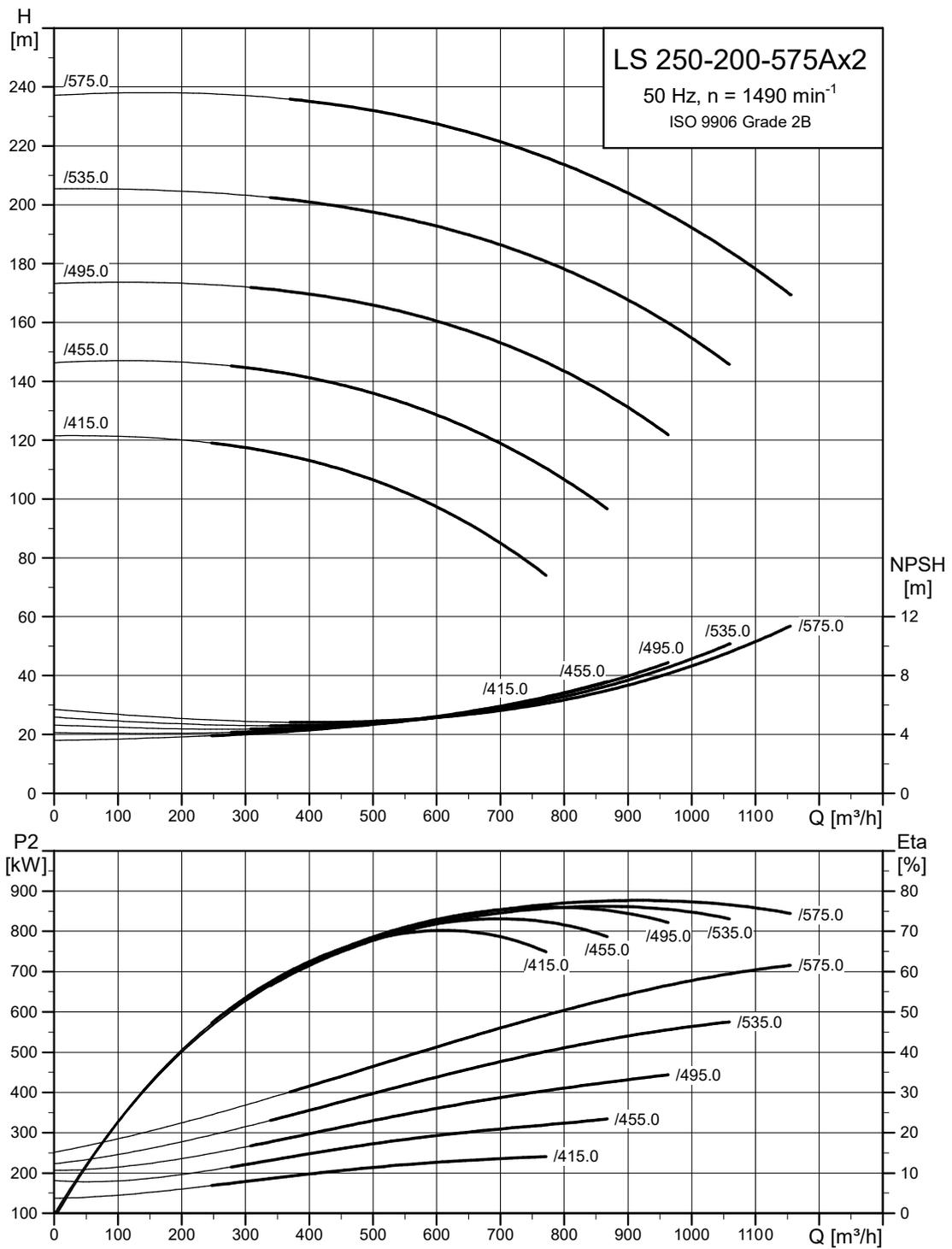
TM072170

LS 200-150-475x2 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | Motor dimensions [mm] | | | Distance between shaft ends [mm] | | Shipping volume [m ³] |
|---------|------------|-------|------|----------------------|-----|-------|-----|-----|-------|-----------------------|------|------|----------------------------------|----|-----------------------------------|
| P2 [kW] | Frame size | Brand | Pole | CP | W | ØU | X | YY | HD/HS | HZ | LM | HM | ØMU | HT | |
| 132 | 315MB | MMG-G | 4 | 1142 | 615 | 57.15 | 550 | 575 | 400 | 685 | 1296 | 1188 | 80 | 14 | 6.257 |
| 160 | 315LB | MMG-G | 4 | 1142 | 615 | 57.15 | 550 | 575 | 400 | 685 | 1396 | 1188 | 80 | 14 | 6.497 |
| 200 | 315LC | MMG-G | 4 | 1142 | 615 | 57.15 | 550 | 575 | 400 | 685 | 1396 | 1188 | 80 | 14 | 6.497 |
| 250 | 355MB | MMG-G | 4 | 1142 | 615 | 57.15 | 550 | 575 | 400 | 685 | 1605 | 1305 | 100 | 43 | 7.688 |
| 315 | 355LB | MMG-G | 4 | 1142 | 615 | 57.15 | 550 | 575 | 400 | 685 | 1605 | 1305 | 100 | 43 | 7.688 |

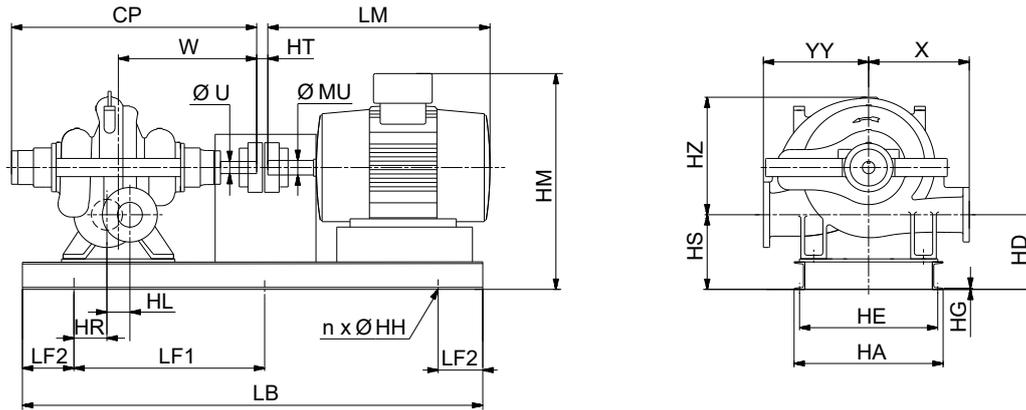
| Motor | | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | Net weights [kg] | | | |
|---------|------------|-------|------|----------------------------|-----|-----|-----|------|-----|-----|-----|---|---------------|------|------------------|------|-------|-------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | HL | LF1 | HA | HE | HG | n | ØHH | Pump | Motor | Pump | Motor | Total |
| 132 | 315MB | MMG-G | 4 | 2178 | 200 | 130 | 130 | 889 | 830 | 786 | 9.5 | 6 | 23 | 197 | 77 | 960 | 1000 | 1960 |
| 160 | 315LB | MMG-G | 4 | 2178 | 200 | 130 | 130 | 889 | 830 | 786 | 9.5 | 6 | 23 | 197 | 177 | 960 | 1070 | 2030 |
| 200 | 315LC | MMG-G | 4 | 2178 | 200 | 130 | 130 | 889 | 830 | 786 | 9.5 | 6 | 23 | 197 | 177 | 960 | 1260 | 2220 |
| 250 | 355MB | MMG-G | 4 | 2642 | 200 | 130 | 130 | 1121 | 830 | 786 | 9.5 | 6 | 23 | 197 | - | 960 | 1820 | 2780 |
| 315 | 355LB | MMG-G | 4 | 2642 | 200 | 130 | 130 | 1121 | 830 | 786 | 9.5 | 6 | 23 | 197 | - | 960 | 2150 | 3110 |

LS 250-200-575x2



TM072763

LS 250-200-575x2 dimensional sketches



TM072170

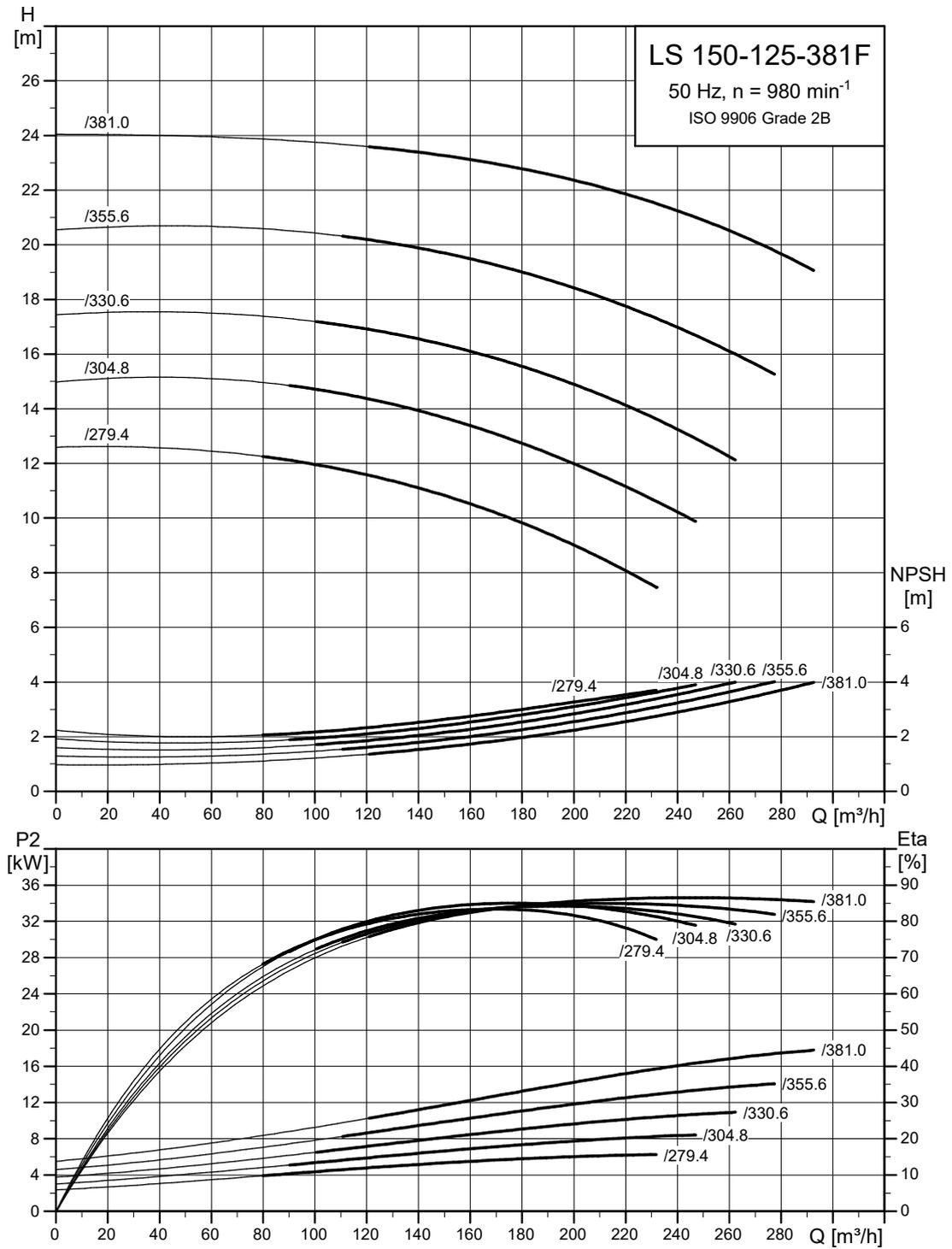
LS 250-200-575x2 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | Motor dimensions [mm] | | | Distance between shaft ends [mm] | | Shipping volume [m ³] | |
|---------|------------|-------|------|----------------------|-----|-------|-----|-----|-----------------------|-----|------|----------------------------------|-----|-----------------------------------|--------|
| P2 [kW] | Frame size | Brand | Pole | CP | W | ØU | X | YY | HD/HS | HZ | LM | HM | ØMU | HT | |
| 250 | 355MB | MMG-G | 4 | 1496 | 800 | 79.38 | 600 | 750 | 490 | 850 | 1605 | 1445 | 100 | 19 | 10.732 |
| 315 | 355LB | MMG-G | 4 | 1496 | 800 | 79.38 | 600 | 750 | 490 | 850 | 1605 | 1445 | 100 | 19 | 10.732 |
| 355 | 355CB | MMG-G | 4 | 1496 | 800 | 79.38 | 600 | 750 | 490 | 850 | 1795 | 1445 | 100 | 19 | 11.138 |
| 400 | 315DBB | MMG-G | 4 | 1496 | 800 | 79.38 | 600 | 750 | 490 | 850 | 1841 | 1466 | 95 | 5 | 11.362 |
| 425 | 355CB | MMG-G | 4 | 1496 | 800 | 79.38 | 600 | 750 | 490 | 850 | 1894 | 1562 | 95 | 10 | 12.115 |
| 450 | 355CB | MMG-G | 4 | 1496 | 800 | 79.38 | 600 | 750 | 490 | 850 | 1894 | 1562 | 95 | 10 | 12.115 |
| 475 | 355CB | MMG-G | 4 | 1496 | 800 | 79.38 | 600 | 750 | 490 | 850 | 1894 | 1562 | 95 | 10 | 12.115 |
| 500 | 355CB | MMG-G | 4 | 1496 | 800 | 79.38 | 600 | 750 | 490 | 850 | 1894 | 1562 | 95 | 10 | 12.115 |
| 530 | 355CB | MMG-G | 4 | 1496 | 800 | 79.38 | 600 | 750 | 490 | 850 | 1894 | 1562 | 95 | 10 | 12.115 |
| 560 | 400CB | MMG-G | 4 | 1496 | 800 | 79.38 | 600 | 750 | 490 | 850 | 2080 | 1574 | 110 | 19 | 12.855 |
| 600 | 400CB | MMG-G | 4 | 1496 | 800 | 79.38 | 600 | 750 | 490 | 850 | 2080 | 1574 | 110 | 19 | 12.855 |

| Motor | | | | Base frame dimensions [mm] | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | |
|---------|------------|-------|------|----------------------------|-----|-----|-----|------|------|------|------|---------------|-----|------|------------------|------|-------|-------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | HL | LF1 | HA | HE | HG | n | ØHH | Pump | Motor | Pump | Motor | Total |
| 250 | 355MB | MMG-G | 4 | 2878 | 200 | 190 | 150 | 1239 | 1210 | 1158 | 10.5 | 6 | 23 | 306 | - | 1452 | 1820 | 3272 |
| 315 | 355LB | MMG-G | 4 | 2878 | 200 | 190 | 150 | 1239 | 1210 | 1158 | 10.5 | 6 | 23 | 306 | - | 1452 | 2150 | 3602 |
| 355 | 355CB | MMG-G | 4 | 2878 | 200 | 190 | 150 | 1239 | 1210 | 1158 | 10.5 | 6 | 23 | 306 | 126 | 1452 | 2300 | 3752 |
| 400 | 315DBB | MMG-G | 4 | 2772 | 200 | 190 | 150 | 1186 | 1210 | 1158 | 10.5 | 6 | 23 | 306 | 264 | 1452 | 2180 | 3632 |
| 425 | 355CB | MMG-G | 4 | 2826 | 200 | 190 | 150 | 1239 | 1210 | 1158 | 10.5 | 6 | 23 | 306 | 268 | 1452 | 2450 | 3902 |
| 450 | 355CB | MMG-G | 4 | 2826 | 200 | 190 | 150 | 1239 | 1210 | 1158 | 10.5 | 6 | 23 | 306 | 268 | 1452 | 2610 | 4062 |
| 475 | 355CB | MMG-G | 4 | 2826 | 200 | 190 | 150 | 1239 | 1210 | 1158 | 10.5 | 6 | 23 | 306 | 268 | 1452 | 2610 | 4062 |
| 500 | 355CB | MMG-G | 4 | 2826 | 200 | 190 | 150 | 1239 | 1210 | 1158 | 10.5 | 6 | 23 | 306 | 268 | 1452 | 2700 | 4152 |
| 530 | 355CB | MMG-G | 4 | 2826 | 200 | 190 | 150 | 1239 | 1210 | 1158 | 10.5 | 6 | 23 | 306 | 268 | 1452 | 2800 | 4252 |
| 560 | 400CB | MMG-G | 4 | 3016 | 200 | 190 | 150 | 1308 | 1210 | 1158 | 10.5 | 6 | 23 | 306 | 273 | 1452 | 3260 | 4712 |
| 600 | 400CB | MMG-G | 4 | 3016 | 200 | 190 | 150 | 1308 | 1210 | 1158 | 10.5 | 6 | 23 | 306 | 273 | 1452 | 3430 | 4882 |

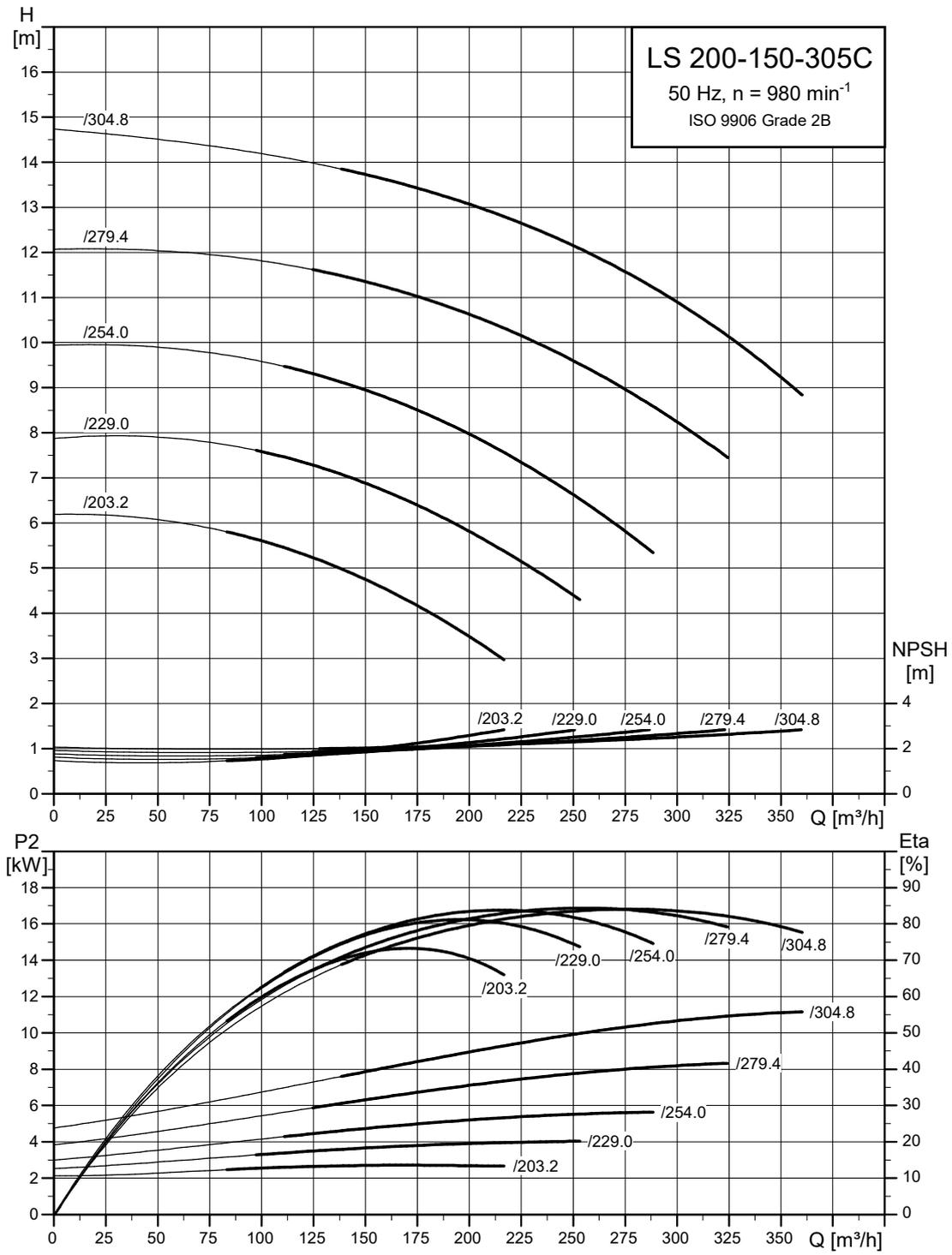
6-pole

LS 150-125-381



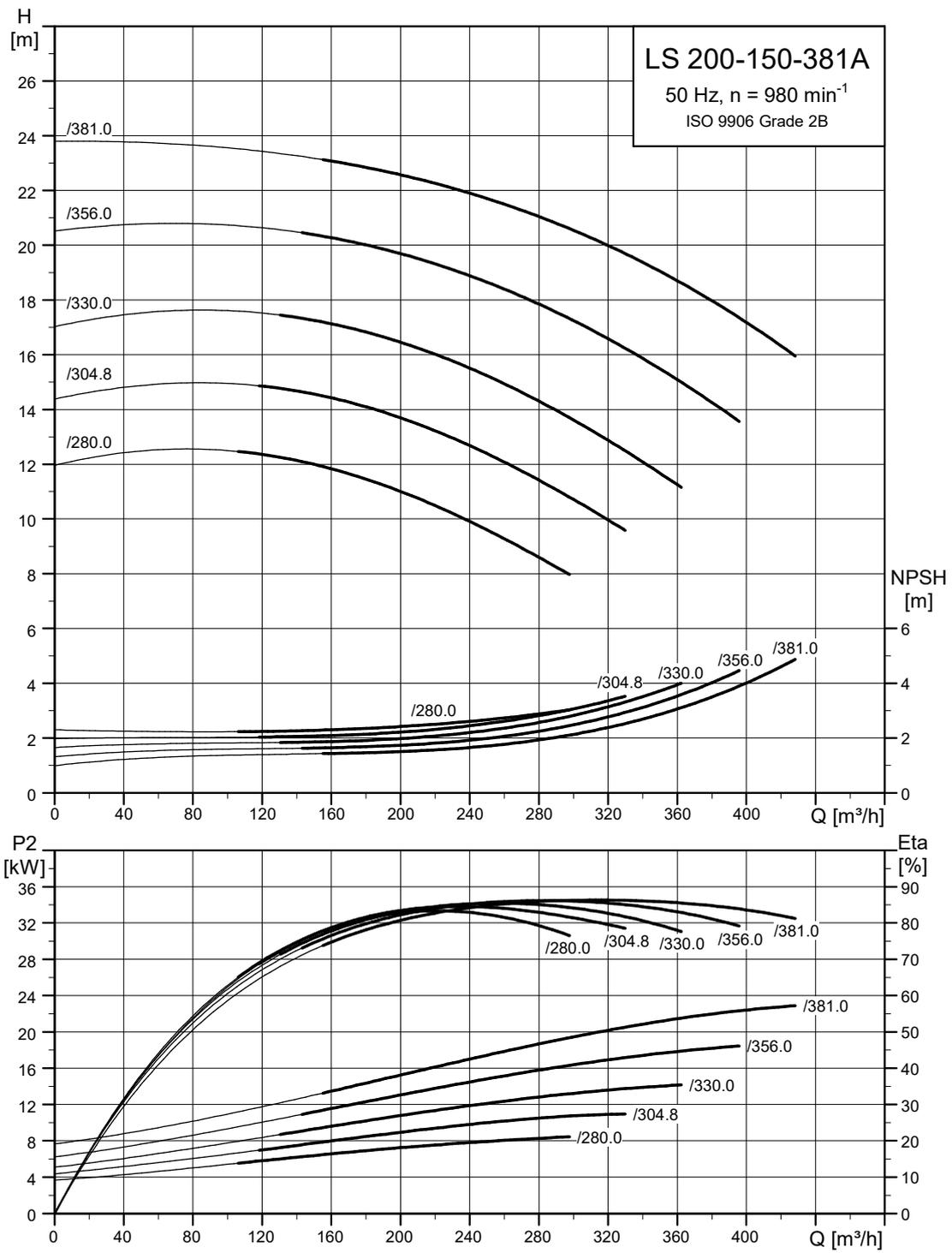
TM072636

LS 200-150-305



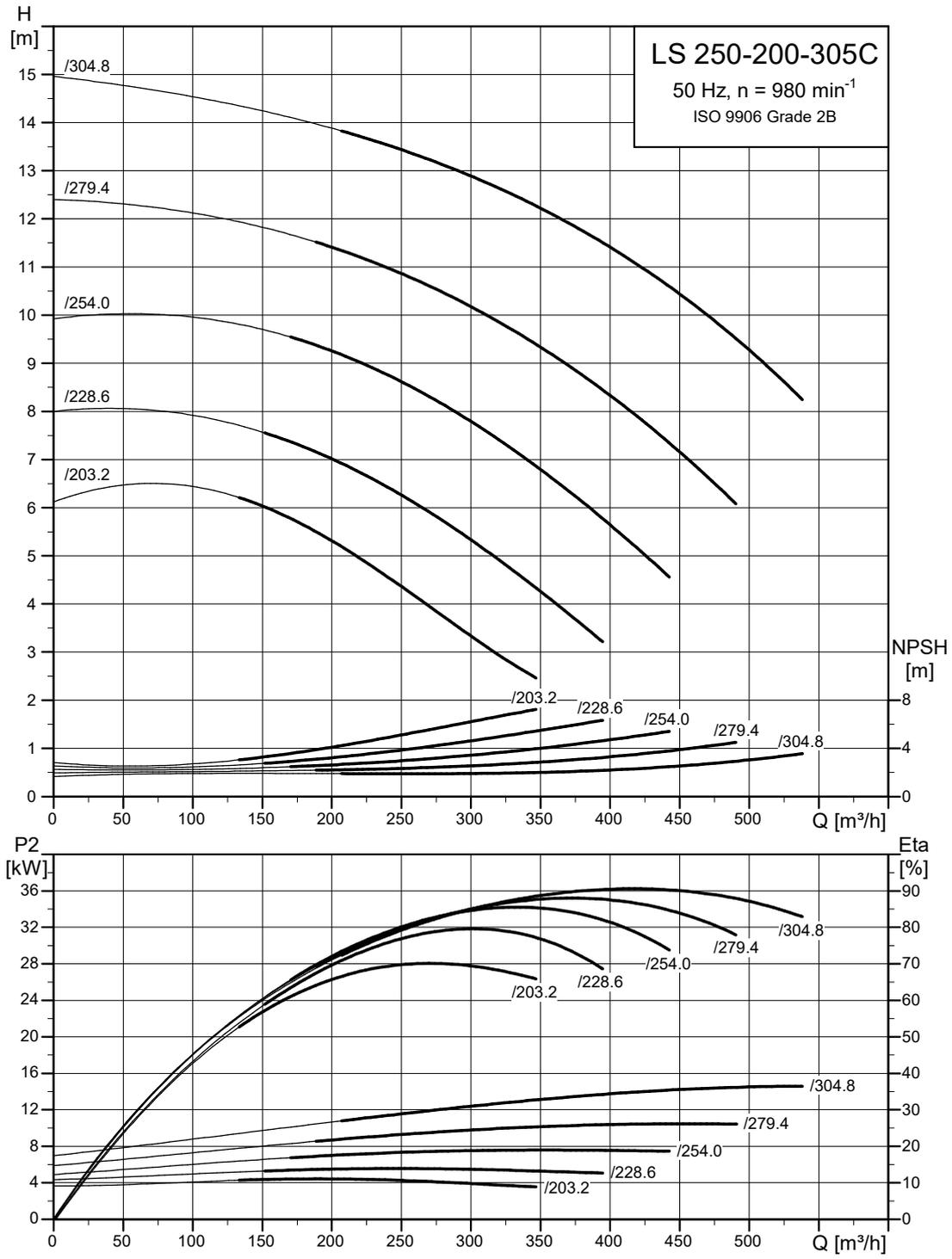
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LS 200-150-381



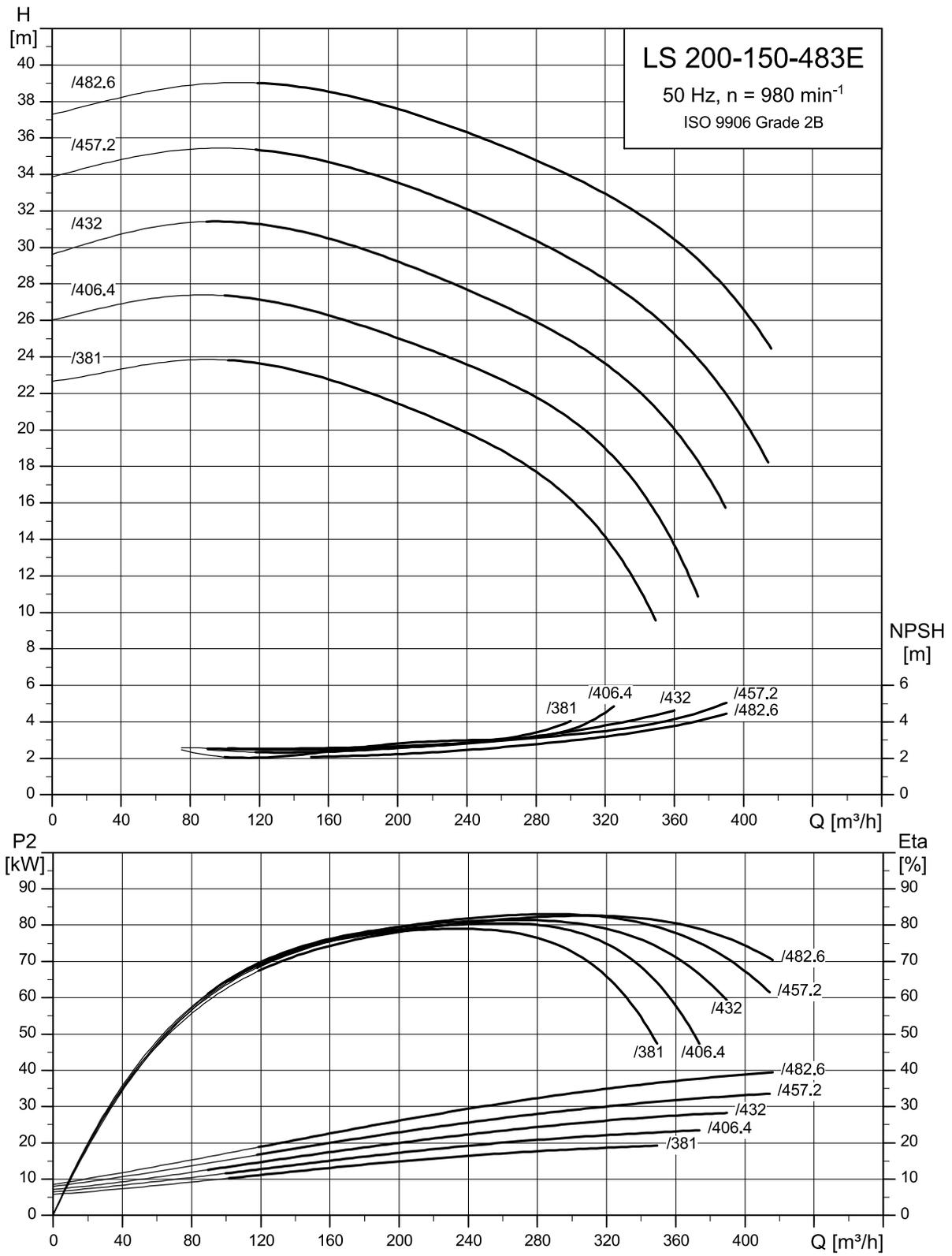
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LS 250-200-305



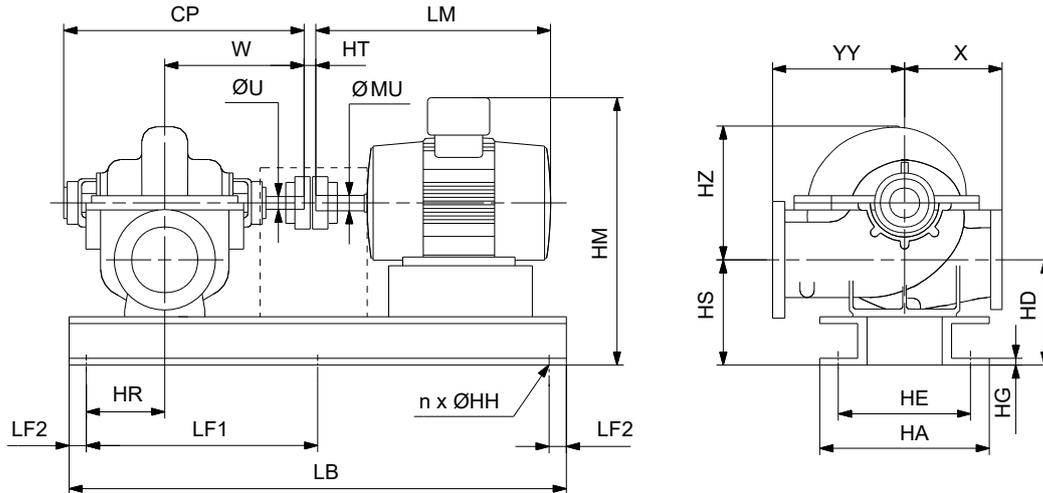
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LS 200-150-483



TM083151

LS 200-150-483 dimensional sketches



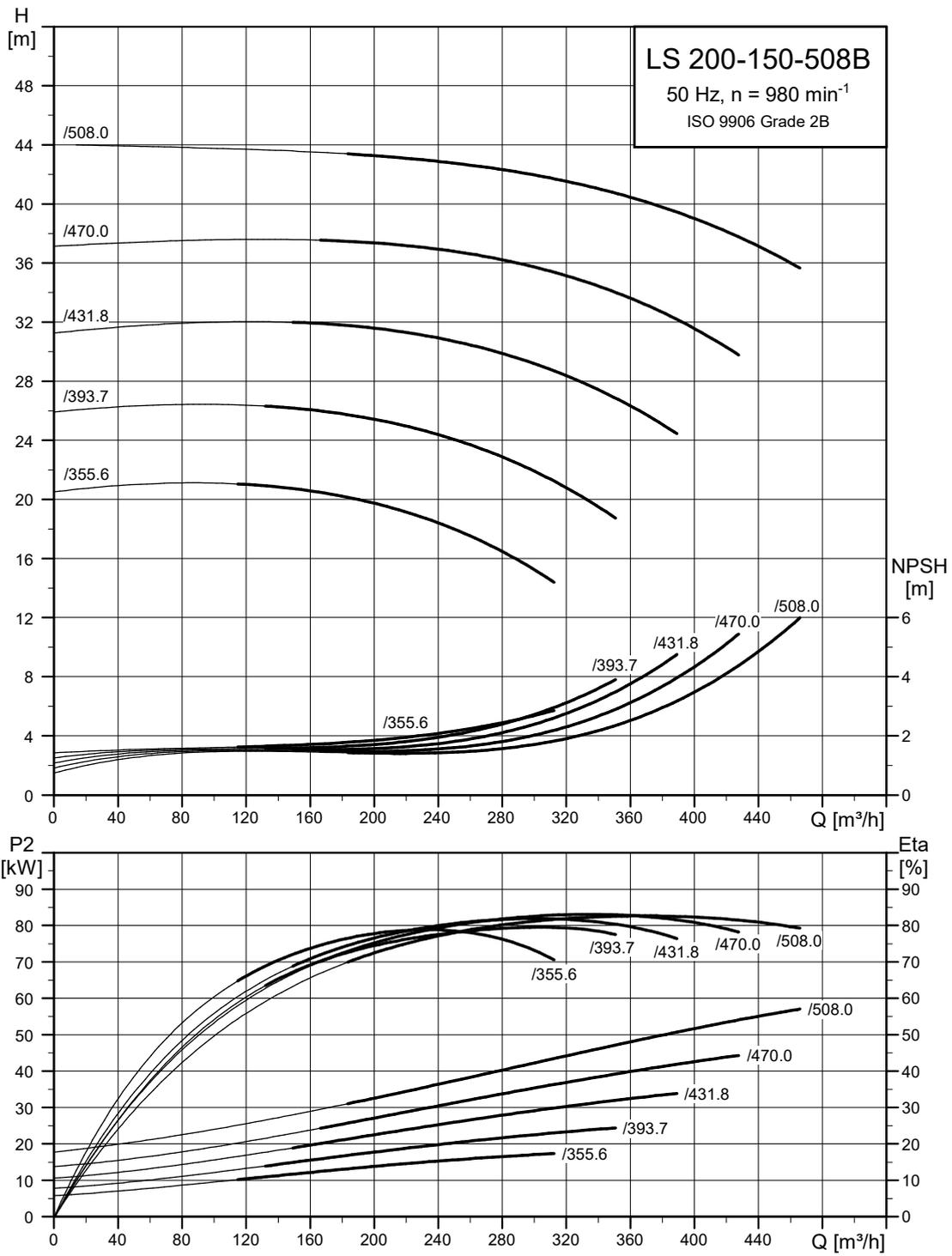
TM072172

LS 200-150-483 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | | Motor dimensions [mm] | | | Distance between shaft ends [mm] | |
|---------|------------|---------|------|----------------------|--------------|-----|-------|-----|-----|-----|-----|-----------------------|--------|------|----------------------------------|----|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 15 | 180L | Siemens | 6 | 888 | 888 | 489 | 44.45 | 432 | 432 | 311 | 311 | 615 | 712 | 838 | 48 | 4 |
| 18.5 | 200L | Siemens | 6 | 888 | 888 | 489 | 44.45 | 432 | 432 | 311 | 311 | 615 | 769 | 947 | 55 | 4 |
| 22 | 200L | Siemens | 6 | 888 | 888 | 489 | 44.45 | 432 | 432 | 311 | 311 | 615 | 769 | 947 | 55 | 4 |
| 30 | 225M | Siemens | 6 | 888 | 888 | 489 | 44.45 | 432 | 432 | 311 | 311 | 615 | 849 | 910 | 60 | 4 |
| 37 | 250M | Siemens | 6 | 888 | 888 | 489 | 44.45 | 432 | 432 | 311 | 311 | 615 | 887 | 982 | 65 | 4 |
| 45 | 280S | Siemens | 6 | 888 | 888 | 489 | 44.45 | 432 | 432 | 311 | 311 | 615 | 960 | 1005 | 75 | 13 |
| 15 | 180L | MMG-G | 6 | 888 | 888 | 489 | 44.45 | 432 | 432 | 311 | 311 | 615 | 710 | 839 | 48 | 4 |
| 18.5 | 200LA | MMG-G | 6 | 888 | 888 | 489 | 44.45 | 432 | 432 | 311 | 311 | 615 | 770 | 904 | 55 | 4 |
| 22 | 200LB | MMG-G | 6 | 888 | 888 | 489 | 44.45 | 432 | 432 | 311 | 311 | 615 | 770 | 904 | 55 | 4 |
| 30 | 25MC | MMG-G | 6 | 888 | 888 | 489 | 44.45 | 432 | 432 | 311 | 311 | 615 | 841 | 930 | 60 | 4 |
| 37 | 250MC | MMG-G | 6 | 888 | 888 | 489 | 44.45 | 432 | 432 | 311 | 311 | 615 | 921 | 972 | 65 | 4 |
| 45 | 280SB | MMG-G | 6 | 888 | 888 | 489 | 44.45 | 432 | 432 | 311 | 311 | 615 | 1037.5 | 1005 | 75 | 13 |

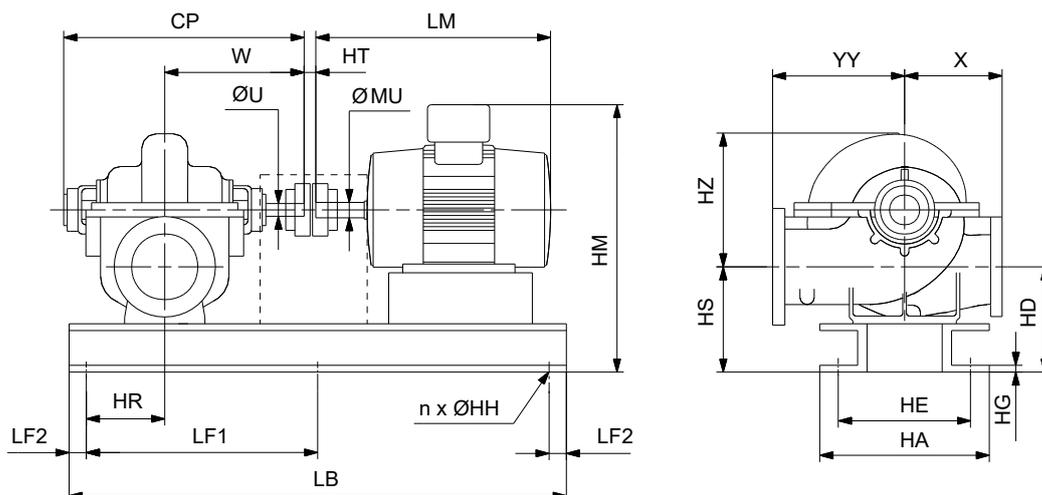
| Motor | | | | Base frame dimensions [mm] | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] | |
|---------|------------|---------|------|----------------------------|-----|----|-----|-----|-----|-----|---|---------------|-----------------|--------------|------------------|------|-------|----------------------|-------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | | Total |
| | | | | | | | | | | | | | | | | | | 15 | |
| 18.5 | 200L | Siemens | 6 | 1500 | 200 | 78 | 550 | 440 | 378 | 11 | 6 | 23 | 121 | 121 | - | 534 | 186 | 826 | 1.85 |
| 22 | 200L | Siemens | 6 | 1500 | 200 | 78 | 550 | 440 | 378 | 11 | 6 | 23 | 121 | 121 | - | 534 | 217 | 857 | 1.85 |
| 30 | 225M | Siemens | 6 | 1513 | 200 | 82 | 557 | 495 | 452 | 9 | 6 | 23 | 117 | 117 | 110 | 534 | 325 | 973 | 1.92 |
| 37 | 250M | Siemens | 6 | 1580 | 200 | 80 | 590 | 545 | 502 | 9 | 6 | 23 | 119 | 119 | 80 | 534 | 405 | 1064 | 2.09 |
| 45 | 280S | Siemens | 6 | 1673 | 200 | 80 | 637 | 605 | 560 | 9 | 6 | 23 | 119 | 119 | 69 | 534 | 520 | 1194 | 2.22 |
| 15 | 180L | MMG-G | 6 | 1450 | 200 | 85 | 525 | 390 | 346 | 8.5 | 6 | 18 | 114 | 114 | 38 | 534 | 205 | 739 | 2.602 |
| 18.5 | 200LA | MMG-G | 6 | 1500 | 200 | 78 | 550 | 440 | 378 | 11 | 6 | 23 | 122 | 122 | 40 | 534 | 270 | 804 | 2.691 |
| 22 | 200LB | MMG-G | 6 | 1500 | 200 | 78 | 550 | 440 | 378 | 11 | 6 | 23 | 122 | 122 | 40 | 534 | 290 | 824 | 2.691 |
| 30 | 25MC | MMG-G | 6 | 1513 | 200 | 82 | 557 | 495 | 452 | 9 | 6 | 23 | 117 | 117 | 103 | 534 | 385 | 919 | 2.805 |
| 37 | 250MC | MMG-G | 6 | 1580 | 200 | 80 | 590 | 545 | 502 | 9 | 6 | 23 | 119 | 119 | 114 | 534 | 460 | 994 | 3.020 |
| 45 | 280SB | MMG-G | 6 | 1673 | 200 | 80 | 637 | 605 | 560 | 9 | 6 | 23 | 119 | 119 | 147 | 534 | 561 | 1095 | 3.294 |

LS 200-150-508



TM072644

LS 200-150-508 dimensional sketches



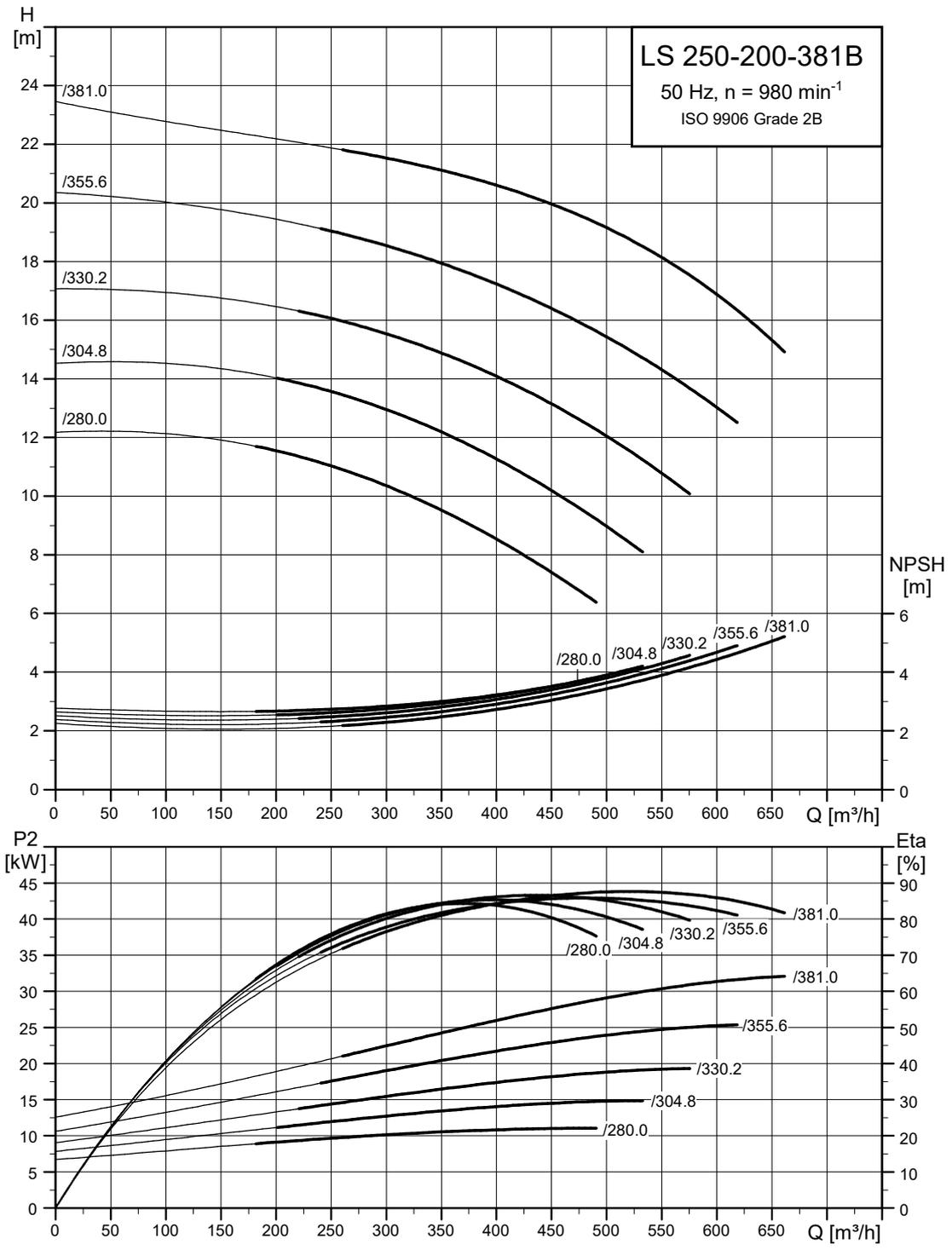
TM072172

LS 200-150-508 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | | Motor dimensions [mm] | | | | Distance between shaft ends [mm] | |
|---------|------------|---------|------|----------------------|--------------|-----|-------|-----|-----|-----|-----|-----------------------|--------|------|-----|----------------------------------|--|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT | |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | | |
| 18.5 | 200L | Siemens | 6 | 995 | 995 | 546 | 53.98 | 432 | 483 | 311 | 311 | 660 | 769 | 886 | 55 | 4 | |
| 22 | 200L | Siemens | 6 | 995 | 995 | 546 | 53.98 | 432 | 483 | 311 | 311 | 660 | 769 | 886 | 55 | 4 | |
| 30 | 225M | Siemens | 6 | 995 | 995 | 546 | 53.98 | 432 | 483 | 311 | 311 | 660 | 849 | 989 | 60 | 4 | |
| 37 | 250M | Siemens | 6 | 995 | 995 | 546 | 53.98 | 432 | 483 | 311 | 311 | 660 | 887 | 981 | 65 | 4 | |
| 45 | 280S | Siemens | 6 | 995 | 995 | 546 | 53.98 | 432 | 483 | 311 | 311 | 660 | 960 | 1024 | 75 | 5 | |
| 55 | 280M | Siemens | 6 | 995 | 995 | 546 | 53.98 | 432 | 483 | 311 | 311 | 660 | 960 | 1024 | 75 | 5 | |
| 75 | 315S | Siemens | 6 | 995 | 995 | 546 | 53.98 | 432 | 483 | 371 | 371 | 660 | 1127 | 1190 | 80 | 5 | |
| 18.5 | 200LA | MMG-G | 6 | 995 | 995 | 546 | 53.98 | 432 | 483 | 311 | 311 | 660 | 770 | 923 | 55 | 4 | |
| 22 | 200LB | MMG-G | 6 | 995 | 995 | 546 | 53.98 | 432 | 483 | 311 | 311 | 660 | 770 | 923 | 55 | 4 | |
| 30 | 225MC | MMG-G | 6 | 995 | 995 | 546 | 53.98 | 432 | 483 | 311 | 311 | 660 | 841 | 949 | 60 | 4 | |
| 37 | 250MC | MMG-G | 6 | 995 | 995 | 546 | 53.98 | 432 | 483 | 311 | 311 | 660 | 921 | 991 | 65 | 4 | |
| 45 | 280SB | MMG-G | 6 | 995 | 995 | 546 | 53.98 | 432 | 483 | 311 | 311 | 660 | 1037.5 | 1024 | 75 | 5 | |
| 55 | 280MB | MMG-G | 6 | 995 | 995 | 546 | 53.98 | 432 | 483 | 311 | 311 | 660 | 1087.5 | 1024 | 75 | 5 | |
| 75 | 315SB | MMG-G | 6 | 995 | 995 | 546 | 53.98 | 432 | 483 | 371 | 371 | 660 | 1246 | 1179 | 80 | 5 | |

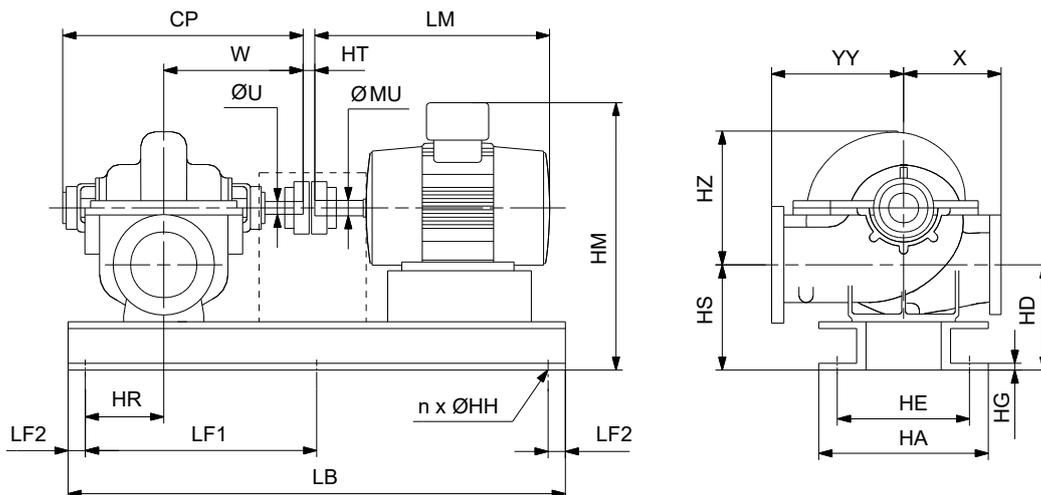
| Motor | | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] |
|---------|------------|---------|------|----------------------------|-----|----|-----|-----|-----|-----|---|-----|-----------------|--------------|-----------|------------------|-------|-------|----------------------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | |
| 18.5 | 200L | Siemens | 6 | 1520 | 200 | 78 | 560 | 425 | 381 | 8.5 | 6 | 18 | 171 | 171 | 29 | 545 | 186 | 835 | 2.25 |
| 22 | 200L | Siemens | 6 | 1520 | 200 | 78 | 560 | 425 | 381 | 8.5 | 6 | 18 | 171 | 171 | 29 | 545 | 217 | 866 | 2.25 |
| 30 | 225M | Siemens | 6 | 1570 | 200 | 80 | 585 | 465 | 403 | 11 | 6 | 23 | 169 | 169 | 108 | 545 | 325 | 983 | 2.58 |
| 37 | 250M | Siemens | 6 | 1640 | 200 | 80 | 620 | 555 | 511 | 8.5 | 6 | 18 | 169 | 169 | 77 | 545 | 405 | 1076 | 2.51 |
| 45 | 280S | Siemens | 6 | 1750 | 200 | 80 | 675 | 605 | 577 | 9 | 6 | 23 | 169 | 169 | 41 | 545 | 520 | 1204 | 2.71 |
| 55 | 280M | Siemens | 6 | 1750 | 200 | 80 | 675 | 605 | 577 | 9 | 6 | 23 | 169 | 169 | 151 | 545 | 570 | 1254 | 2.84 |
| 75 | 315S | Siemens | 6 | 1980 | 200 | 80 | 790 | 725 | 665 | 11 | 6 | 23 | 169 | 169 | - | 545 | 760 | 1514 | 3.32 |
| 18.5 | 200LA | MMG-G | 6 | 1520 | 200 | 78 | 560 | 425 | 381 | 8.5 | 6 | 18 | 171 | 171 | 77 | 545 | 270 | 815 | 3.080 |
| 22 | 200LB | MMG-G | 6 | 1520 | 200 | 78 | 560 | 425 | 381 | 8.5 | 6 | 18 | 171 | 171 | 77 | 545 | 290 | 835 | 3.080 |
| 30 | 25MC | MMG-G | 6 | 1570 | 200 | 80 | 585 | 465 | 403 | 11 | 6 | 23 | 169 | 169 | 101 | 545 | 385 | 930 | 3.193 |
| 37 | 250MC | MMG-G | 6 | 1640 | 200 | 80 | 620 | 555 | 511 | 8.5 | 6 | 18 | 169 | 169 | 111 | 545 | 460 | 1005 | 3.372 |
| 45 | 280SB | MMG-G | 6 | 1750 | 200 | 80 | 675 | 605 | 577 | 9 | 6 | 23 | 169 | 169 | 119 | 545 | 561 | 1106 | 4.051 |
| 55 | 280MB | MMG-G | 6 | 1750 | 200 | 80 | 675 | 605 | 577 | 9 | 6 | 23 | 169 | 169 | 169 | 545 | 635 | 1180 | 4.143 |
| 75 | 315SB | MMG-G | 6 | 1980 | 200 | 80 | 790 | 725 | 665 | 11 | 6 | 23 | 169 | 169 | 97 | 545 | 900 | 1445 | 4.886 |

LS 250-200-381



TM072648

LS 250-200-381 dimensional sketches



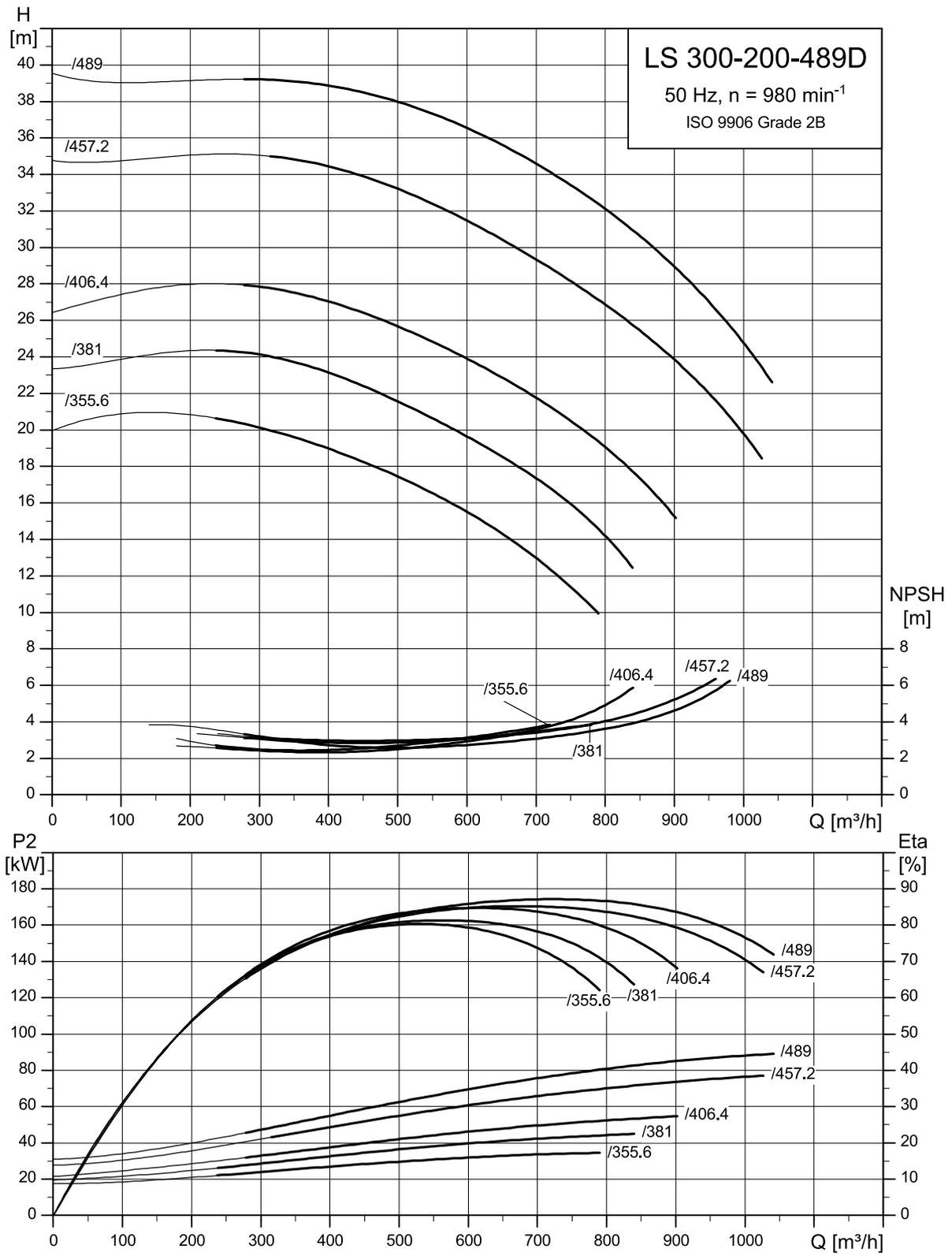
TM072172

LS 250-200-381 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | | Motor dimensions [mm] | | | Distance between shaft ends [mm] | |
|---------|------------|---------|------|----------------------|--------------|-----|-------|-----|-----|-----|-----|-----------------------|--------|------|----------------------------------|----|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 11 | 160L | Siemens | 6 | 949 | 949 | 518 | 44.45 | 483 | 483 | 318 | 318 | 655 | 628 | 839 | 42 | 3 |
| 15 | 180L | Siemens | 6 | 949 | 949 | 518 | 44.45 | 483 | 483 | 318 | 318 | 655 | 712 | 969 | 48 | 4 |
| 18.5 | 200L | Siemens | 6 | 949 | 949 | 518 | 44.45 | 483 | 483 | 318 | 318 | 655 | 769 | 918 | 55 | 4 |
| 22 | 200L | Siemens | 6 | 949 | 949 | 518 | 44.45 | 483 | 483 | 318 | 318 | 655 | 769 | 918 | 55 | 4 |
| 30 | 225M | Siemens | 6 | 949 | 949 | 518 | 44.45 | 483 | 483 | 318 | 318 | 655 | 849 | 1021 | 60 | 7 |
| 37 | 250M | Siemens | 6 | 949 | 949 | 518 | 44.45 | 483 | 483 | 318 | 318 | 655 | 887 | 1013 | 65 | 7 |
| 45 | 280S | Siemens | 6 | 949 | 949 | 518 | 44.45 | 483 | 483 | 318 | 318 | 655 | 960 | 1056 | 75 | 17 |
| 11 | 160L | MMG-G | 6 | 949 | 949 | 518 | 44.45 | 483 | 483 | 318 | 318 | 655 | 652 | 864 | 42 | 3 |
| 15 | 180L | MMG-G | 6 | 949 | 949 | 518 | 44.45 | 483 | 483 | 318 | 318 | 655 | 710 | 890 | 48 | 4 |
| 18.5 | 200LA | MMG-G | 6 | 949 | 949 | 518 | 44.45 | 483 | 483 | 318 | 318 | 655 | 770 | 955 | 55 | 4 |
| 22 | 200LB | MMG-G | 6 | 949 | 949 | 518 | 44.45 | 483 | 483 | 318 | 318 | 655 | 770 | 955 | 55 | 4 |
| 30 | 25MC | MMG-G | 6 | 949 | 949 | 518 | 44.45 | 483 | 483 | 318 | 318 | 655 | 841 | 981 | 60 | 7 |
| 37 | 250MC | MMG-G | 6 | 949 | 949 | 518 | 44.45 | 483 | 483 | 318 | 318 | 655 | 921 | 1023 | 65 | 7 |
| 45 | 280SB | MMG-G | 6 | 949 | 949 | 518 | 44.45 | 483 | 483 | 318 | 318 | 655 | 1037.5 | 1056 | 75 | 17 |

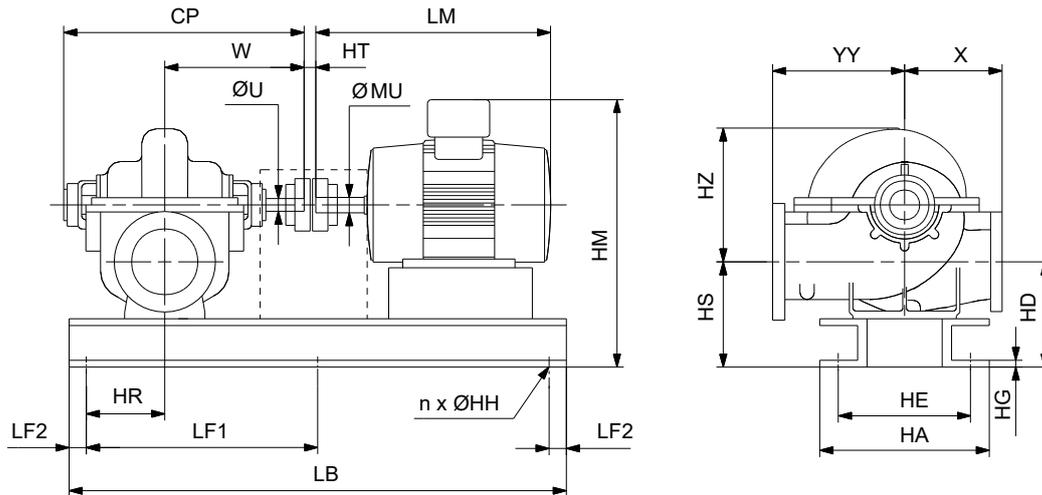
| Motor | | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] |
|---------|------------|---------|------|----------------------------|-----|-----|-----|-----|-----|-----|---|-----|-----------------|--------------|-----------|------------------|-------|-------|----------------------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | |
| 11 | 160L | Siemens | 6 | 1480 | 200 | 150 | 540 | 400 | 356 | 8.5 | 6 | 18 | 81 | 81 | 19 | 568 | 105 | 782 | 2.19 |
| 15 | 180L | Siemens | 6 | 1520 | 200 | 150 | 560 | 430 | 368 | 11 | 6 | 23 | 81 | 81 | 50 | 568 | 144 | 828 | 2.44 |
| 18.5 | 200L | Siemens | 6 | 1560 | 200 | 150 | 580 | 425 | 381 | 8.5 | 6 | 18 | 81 | 81 | 33 | 568 | 186 | 868 | 2.30 |
| 22 | 200L | Siemens | 6 | 1560 | 200 | 150 | 580 | 425 | 381 | 8.5 | 6 | 18 | 81 | 81 | 33 | 568 | 217 | 899 | 2.30 |
| 30 | 225M | Siemens | 6 | 1620 | 200 | 150 | 610 | 465 | 403 | 11 | 6 | 23 | 81 | 81 | 102 | 568 | 325 | 1016 | 2.65 |
| 37 | 250M | Siemens | 6 | 1690 | 200 | 150 | 645 | 555 | 511 | 8.5 | 6 | 18 | 81 | 81 | 71 | 568 | 405 | 1109 | 2.65 |
| 45 | 280S | Siemens | 6 | 1780 | 200 | 150 | 690 | 605 | 577 | 9 | 6 | 23 | 81 | 81 | 64 | 568 | 520 | 1246 | 2.86 |
| 11 | 160L | MMG-G | 6 | 1480 | 200 | 150 | 540 | 400 | 356 | 8.5 | 6 | 18 | 81 | 81 | 43 | 568 | 150 | 718 | 2.939 |
| 15 | 180L | MMG-G | 6 | 1520 | 200 | 150 | 560 | 430 | 368 | 11 | 6 | 23 | 81 | 81 | 62 | 568 | 205 | 773 | 3.037 |
| 18.5 | 200LA | MMG-G | 6 | 1560 | 200 | 150 | 580 | 425 | 381 | 8.5 | 6 | 18 | 81 | 81 | 82 | 568 | 270 | 838 | 3.138 |
| 22 | 200LB | MMG-G | 6 | 1560 | 200 | 150 | 580 | 425 | 381 | 8.5 | 6 | 18 | 81 | 81 | 82 | 568 | 290 | 858 | 3.138 |
| 30 | 25MC | MMG-G | 6 | 1620 | 200 | 150 | 610 | 465 | 403 | 11 | 6 | 23 | 81 | 81 | 96 | 568 | 385 | 953 | 3.280 |
| 37 | 250MC | MMG-G | 6 | 1690 | 200 | 150 | 645 | 555 | 511 | 8.5 | 6 | 18 | 81 | 81 | 106 | 568 | 460 | 1028 | 3.523 |
| 45 | 280SB | MMG-G | 6 | 1780 | 200 | 150 | 690 | 605 | 577 | 9 | 6 | 23 | 81 | 81 | 142 | 568 | 561 | 1129 | 4.241 |

LS 300-200-489



TM083155

LS 300-200-489 dimensional sketches



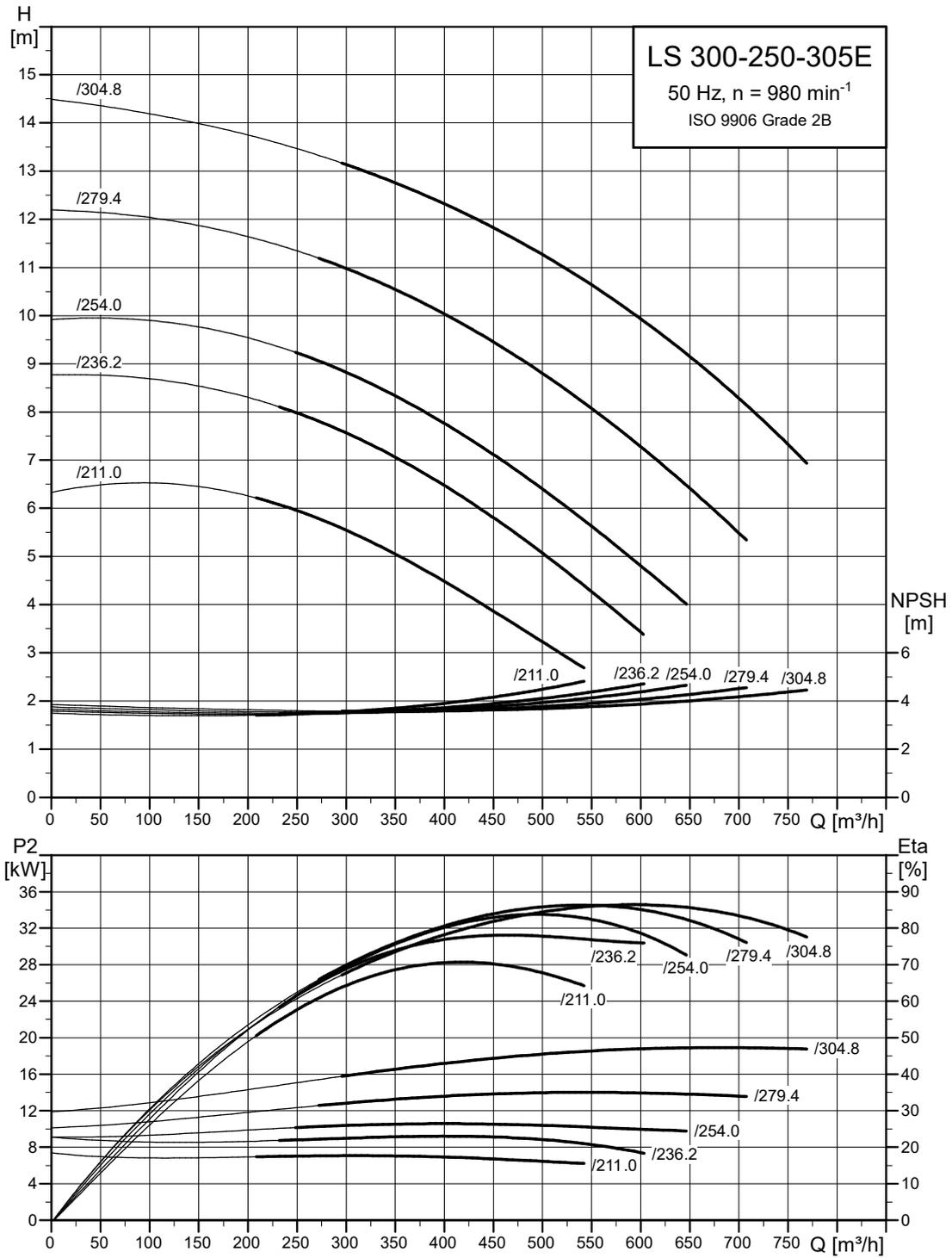
TM072172

LS 300-200-489 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | | Motor dimensions [mm] | | | Distance between shaft ends [mm] | |
|---------|------------|---------|------|----------------------|--------------|-----|------|-----|-----|-----|-----|-----------------------|--------|------|----------------------------------|----|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 37 | 250M | Siemens | 6 | 1306 | 1306 | 723 | 63.5 | 414 | 559 | 338 | 338 | 745 | 887 | 1139 | 65 | 4 |
| 45 | 280S | Siemens | 6 | 1306 | 1306 | 723 | 63.5 | 414 | 559 | 338 | 338 | 745 | 960 | 1082 | 75 | 4 |
| 55 | 280M | Siemens | 6 | 1306 | 1306 | 723 | 63.5 | 414 | 559 | 338 | 338 | 745 | 960 | 1082 | 75 | 4 |
| 75 | 315S | Siemens | 6 | 1306 | 1306 | 723 | 63.5 | 414 | 559 | 398 | 398 | 745 | 1127 | 1268 | 80 | 4 |
| 90 | 315M | Siemens | 6 | 1306 | 1306 | 723 | 63.5 | 414 | 559 | 398 | 398 | 745 | 1127 | 1268 | 80 | 4 |
| 110 | 315L | Siemens | 6 | 1306 | 1306 | 723 | 63.5 | 414 | 559 | 398 | 398 | 745 | 1217 | 1268 | 80 | 4 |
| 37 | 250MC | MMG-G | 6 | 1306 | 1306 | 723 | 63.5 | 414 | 559 | 338 | 338 | 745 | 921 | 1069 | 65 | 4 |
| 45 | 280SB | MMG-G | 6 | 1306 | 1306 | 723 | 63.5 | 414 | 559 | 338 | 338 | 745 | 1037.5 | 1102 | 75 | 4 |
| 55 | 280MB | MMG-G | 6 | 1306 | 1306 | 723 | 63.5 | 414 | 559 | 338 | 338 | 745 | 1087.5 | 1102 | 75 | 4 |
| 75 | 315SB | MMG-G | 6 | 1306 | 1306 | 723 | 63.5 | 414 | 559 | 398 | 398 | 745 | 1246 | 1257 | 80 | 4 |
| 90 | 315MB | MMG-G | 6 | 1306 | 1306 | 723 | 63.5 | 414 | 559 | 398 | 398 | 745 | 1296 | 1257 | 80 | 4 |
| 110 | 315LB | MMG-G | 6 | 1306 | 1306 | 723 | 63.5 | 414 | 559 | 398 | 398 | 745 | 1396 | 1257 | 80 | 4 |

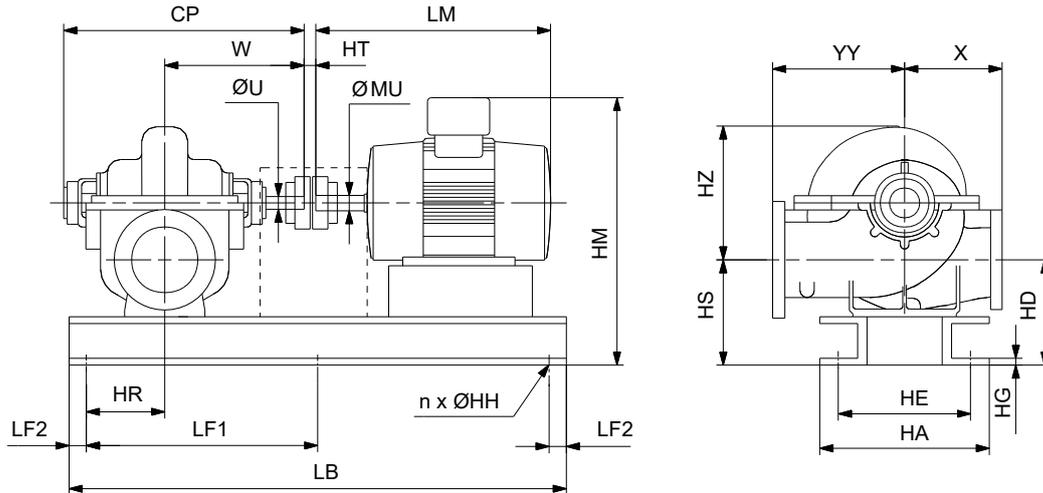
| Motor | | | | Base frame dimensions [mm] | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] | |
|---------|------------|---------|------|----------------------------|-----|-----|-----|-----|-----|-----|---|---------------|-----------------|--------------|------------------|------|-------|----------------------|----------------------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | Shipping volume [m³] |
| | | | | | | | | | | | | | | | | | | | |
| 45 | 280S | Siemens | 6 | 2000 | 200 | 150 | 800 | 680 | 636 | 8.5 | 6 | 18 | 233 | 233 | 36 | 727 | 520 | 1430 | 3.42 |
| 55 | 280M | Siemens | 6 | 2000 | 200 | 150 | 800 | 680 | 636 | 8.5 | 6 | 18 | 233 | 233 | 36 | 727 | 570 | 1480 | 3.42 |
| 75 | 315S | Siemens | 6 | 2150 | 200 | 150 | 875 | 700 | 638 | 11 | 6 | 18 | 233 | 233 | 28 | 727 | 760 | 1723 | 4.12 |
| 90 | 315M | Siemens | 6 | 2150 | 200 | 150 | 875 | 700 | 638 | 11 | 6 | 18 | 233 | 233 | 188 | 727 | 935 | 1898 | 4.37 |
| 110 | 315L | Siemens | 6 | 2150 | 200 | 150 | 875 | 700 | 638 | 11 | 6 | 18 | 233 | 233 | 188 | 727 | 1010 | 1973 | 4.37 |
| 37 | 250MC | MMG-G | 6 | 1900 | 200 | 150 | 750 | 680 | 618 | 11 | 6 | 23 | 233 | 233 | 98 | 727 | 460 | 1187 | 4.798 |
| 45 | 280SB | MMG-G | 6 | 2000 | 200 | 150 | 800 | 680 | 632 | 8.5 | 6 | 18 | 233 | 233 | 115 | 727 | 561 | 1288 | 5.094 |
| 55 | 280MB | MMG-G | 6 | 2000 | 200 | 150 | 800 | 680 | 632 | 8.5 | 6 | 18 | 233 | 233 | 165 | 727 | 635 | 1362 | 5.196 |
| 75 | 315SB | MMG-G | 6 | 2150 | 200 | 150 | 875 | 700 | 638 | 11 | 6 | 18 | 233 | 233 | 173 | 727 | 900 | 1627 | 6.051 |
| 90 | 315MB | MMG-G | 6 | 2150 | 200 | 150 | 875 | 700 | 638 | 11 | 6 | 18 | 233 | 233 | 223 | 727 | 960 | 1687 | 6.163 |
| 110 | 315LB | MMG-G | 6 | 2150 | 200 | 150 | 875 | 700 | 638 | 11 | 6 | 18 | 233 | 233 | 323 | 727 | 1090 | 1817 | 6.386 |

LS 300-250-305



TM072651

LS 300-250-305 dimensional sketches



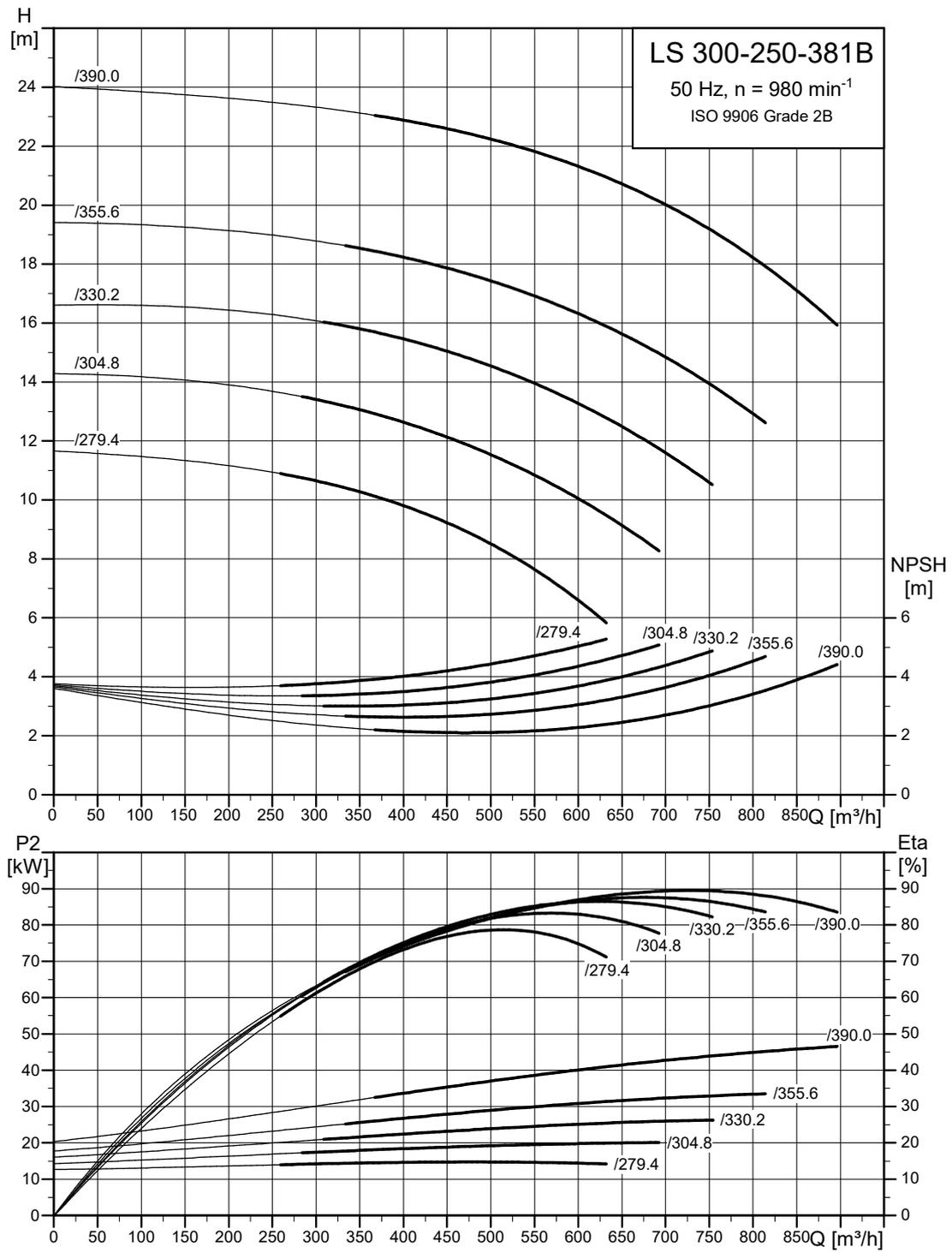
TM072172

LS 300-250-305 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | | Motor dimensions [mm] | | | Distance between shaft ends [mm] | |
|---------|------------|---------|------|----------------------|--------------|-----|-------|-----|-----|-----|-----|-----------------------|-----|------|----------------------------------|----|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 11 | 160L | Siemens | 6 | 974 | 974 | 530 | 44.45 | 495 | 495 | 343 | 343 | 645 | 628 | 880 | 42 | 3 |
| 15 | 180L | Siemens | 6 | 974 | 974 | 530 | 44.45 | 495 | 495 | 343 | 343 | 645 | 712 | 929 | 48 | 4 |
| 18.5 | 200L | Siemens | 6 | 974 | 974 | 530 | 44.45 | 495 | 495 | 343 | 343 | 645 | 769 | 958 | 55 | 4 |
| 22 | 200L | Siemens | 6 | 974 | 974 | 530 | 44.45 | 495 | 495 | 343 | 343 | 645 | 769 | 958 | 55 | 4 |
| 30 | 225M | Siemens | 6 | 974 | 974 | 530 | 44.45 | 495 | 495 | 343 | 343 | 645 | 849 | 981 | 60 | 6 |
| 11 | 160L | MMG-G | 6 | 974 | 974 | 530 | 44.45 | 495 | 495 | 343 | 343 | 645 | 652 | 884 | 42 | 3 |
| 15 | 180L | MMG-G | 6 | 974 | 974 | 530 | 44.45 | 495 | 495 | 343 | 343 | 645 | 710 | 910 | 48 | 4 |
| 18.5 | 200LA | MMG-G | 6 | 974 | 974 | 530 | 44.45 | 495 | 495 | 343 | 343 | 645 | 770 | 975 | 55 | 4 |
| 22 | 200LB | MMG-G | 6 | 974 | 974 | 530 | 44.45 | 495 | 495 | 343 | 343 | 645 | 770 | 975 | 55 | 4 |
| 30 | 25MC | MMG-G | 6 | 974 | 974 | 530 | 44.45 | 495 | 495 | 343 | 343 | 645 | 841 | 1001 | 60 | 6 |

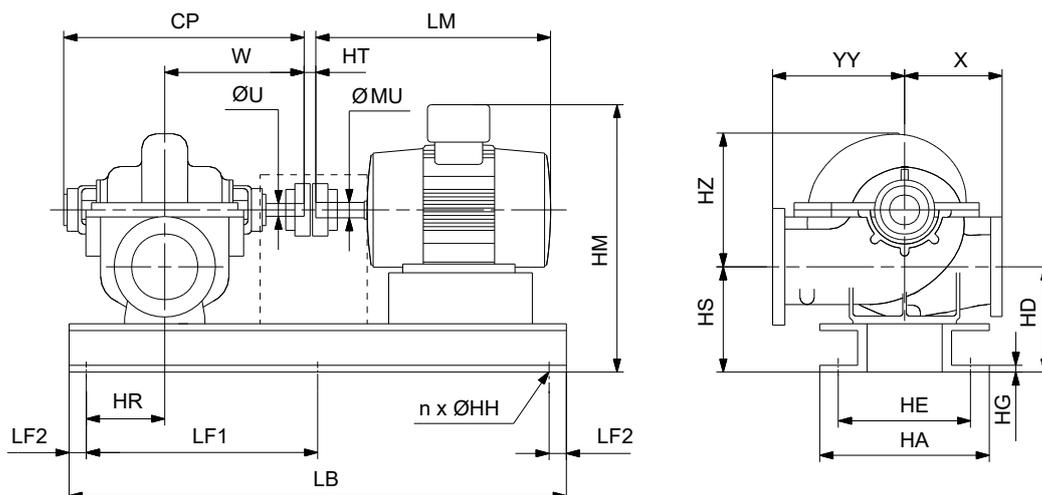
| Motor | | | | Base frame dimensions [mm] | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] | |
|---------|------------|---------|------|----------------------------|-----|-----|-----|-----|-----|----|---|---------------|-----------------|--------------|------------------|------|-------|----------------------|----------------------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | Shipping volume [m³] |
| | | | | | | | | | | | | | | | | | | | |
| 15 | 180L | Siemens | 6 | 1530 | 200 | 150 | 565 | 400 | 352 | 9 | 6 | 18 | 94 | 94 | 52 | 636 | 144 | 895 | 2.43 |
| 18.5 | 200L | Siemens | 6 | 1570 | 200 | 150 | 585 | 420 | 372 | 9 | 6 | 18 | 94 | 94 | 35 | 636 | 186 | 939 | 2.46 |
| 22 | 200L | Siemens | 6 | 1570 | 200 | 150 | 585 | 420 | 372 | 9 | 6 | 18 | 94 | 94 | 35 | 636 | 217 | 970 | 2.46 |
| 30 | 225M | Siemens | 6 | 1650 | 200 | 150 | 625 | 465 | 417 | 9 | 6 | 18 | 94 | 94 | 85 | 636 | 325 | 1089 | 2.59 |
| 11 | 160L | MMG-G | 6 | 1500 | 200 | 150 | 550 | 420 | 372 | 9 | 6 | 18 | 94 | 94 | 35 | 636 | 150 | 786 | 3.071 |
| 15 | 180L | MMG-G | 6 | 1530 | 200 | 150 | 565 | 400 | 352 | 9 | 6 | 18 | 94 | 94 | 64 | 636 | 205 | 841 | 3.172 |
| 18.5 | 200LA | MMG-G | 6 | 1570 | 200 | 150 | 585 | 420 | 372 | 9 | 6 | 18 | 94 | 94 | 84 | 636 | 270 | 906 | 3.276 |
| 22 | 200LB | MMG-G | 6 | 1570 | 200 | 150 | 585 | 420 | 372 | 9 | 6 | 18 | 94 | 94 | 84 | 636 | 290 | 926 | 3.276 |
| 30 | 25MC | MMG-G | 6 | 1650 | 200 | 150 | 625 | 465 | 417 | 9 | 6 | 18 | 94 | 94 | 77 | 636 | 385 | 1021 | 3.436 |

LS 300-250-381



TM072653

LS 300-250-381 dimensional sketches



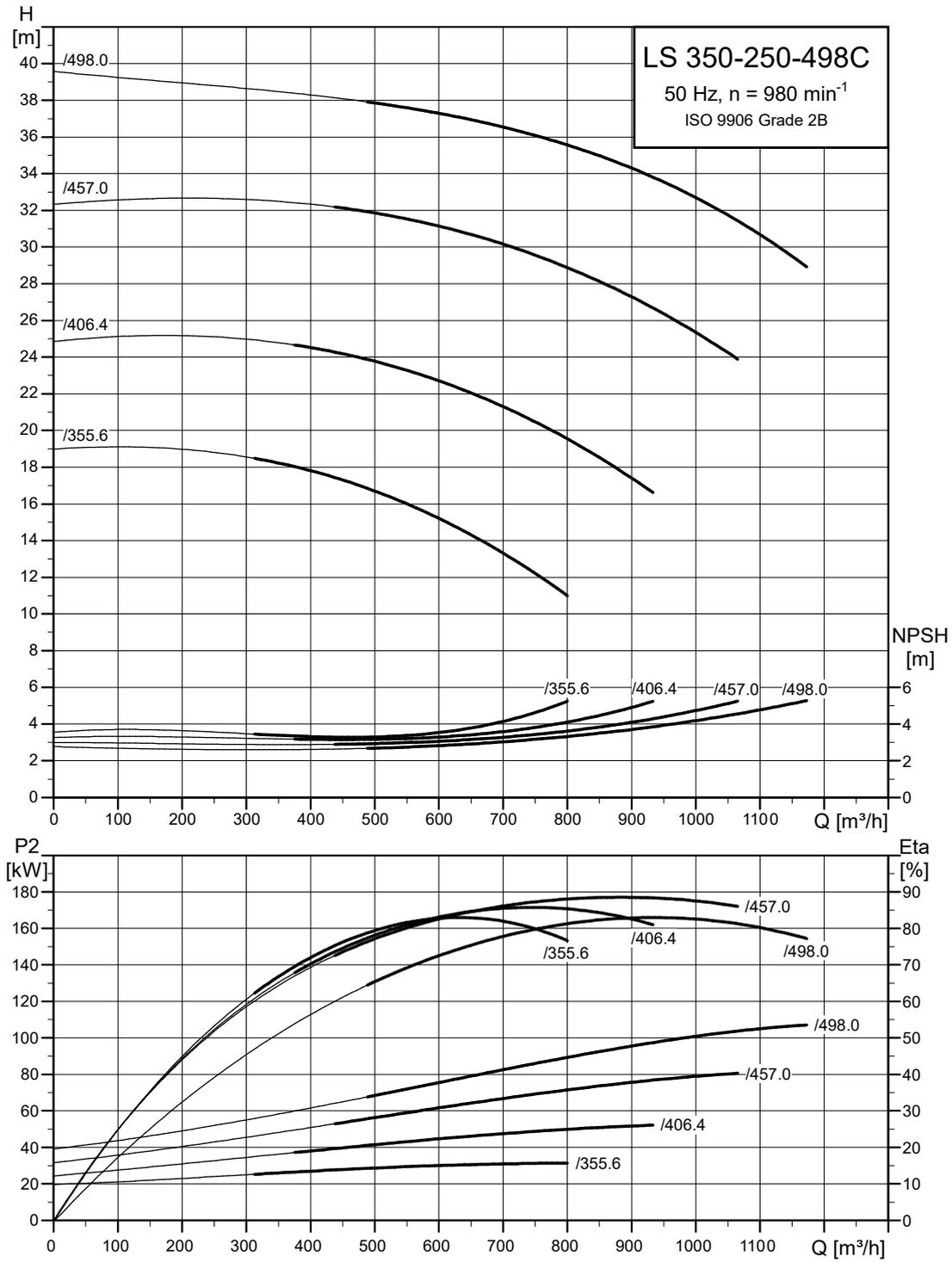
TM072172

LS 300-250-381 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | | Motor dimensions [mm] | | | Distance between shaft ends [mm] | |
|---------|------------|---------|------|----------------------|--------------|-----|-------|-----|-----|-----|-----|-----------------------|--------|------|----------------------------------|----|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 18.5 | 200L | Siemens | 6 | 1051 | 1051 | 600 | 57.15 | 432 | 584 | 394 | 394 | 630 | 769 | 963 | 55 | 4 |
| 22 | 200L | Siemens | 6 | 1051 | 1051 | 600 | 57.15 | 432 | 584 | 394 | 394 | 630 | 769 | 963 | 55 | 4 |
| 30 | 225M | Siemens | 6 | 1051 | 1051 | 600 | 57.15 | 432 | 584 | 394 | 394 | 630 | 849 | 986 | 60 | 4 |
| 37 | 250M | Siemens | 6 | 1051 | 1051 | 600 | 57.15 | 432 | 584 | 394 | 394 | 630 | 887 | 1058 | 65 | 4 |
| 45 | 280S | Siemens | 6 | 1051 | 1051 | 600 | 57.15 | 432 | 584 | 454 | 454 | 630 | 960 | 1141 | 75 | 4 |
| 55 | 280M | Siemens | 6 | 1051 | 1051 | 600 | 57.15 | 432 | 584 | 454 | 454 | 630 | 960 | 1141 | 75 | 4 |
| 18.5 | 200LA | MMG-G | 6 | 1051 | 1051 | 600 | 57.15 | 432 | 584 | 394 | 394 | 630 | 770 | 980 | 55 | 4 |
| 22 | 200LB | MMG-G | 6 | 1051 | 1051 | 600 | 57.15 | 432 | 584 | 394 | 394 | 630 | 770 | 980 | 55 | 4 |
| 30 | 25MC | MMG-G | 6 | 1051 | 1051 | 600 | 57.15 | 432 | 584 | 394 | 394 | 630 | 841 | 1006 | 60 | 4 |
| 37 | 250MC | MMG-G | 6 | 1051 | 1051 | 600 | 57.15 | 432 | 584 | 394 | 394 | 630 | 921 | 1048 | 65 | 4 |
| 45 | 280SB | MMG-G | 6 | 1051 | 1051 | 600 | 57.15 | 432 | 584 | 454 | 454 | 630 | 1037.5 | 1141 | 75 | 4 |
| 55 | 280MB | MMG-G | 6 | 1051 | 1051 | 600 | 57.15 | 432 | 584 | 454 | 454 | 630 | 1087.5 | 1141 | 75 | 4 |

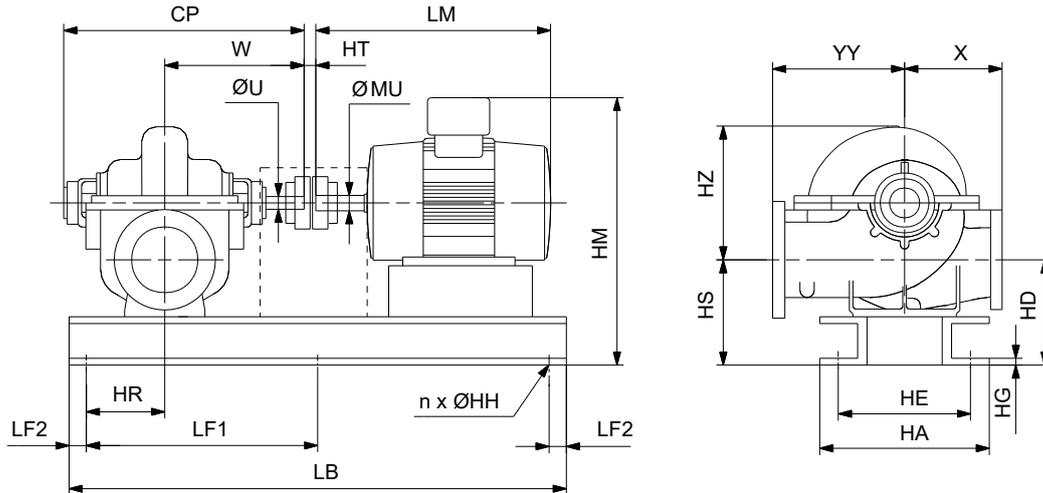
| Motor | | | | Base frame dimensions [mm] | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] | |
|---------|------------|---------|------|----------------------------|-----|----|-----|-----|-----|----|---|---------------|-----------------|--------------|------------------|------|-------|----------------------|-------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | |
| | | | | | | | | | | | | | | | | | | | |
| 18.5 | 200L | Siemens | 6 | 1570 | 200 | 80 | 585 | 520 | 472 | 9 | 6 | 18 | 171 | 171 | 35 | 991 | 186 | 1301 | 2.70 |
| 22 | 200L | Siemens | 6 | 1570 | 200 | 80 | 585 | 520 | 472 | 9 | 6 | 18 | 171 | 171 | 35 | 991 | 217 | 1332 | 2.70 |
| 30 | 225M | Siemens | 6 | 1640 | 200 | 80 | 620 | 540 | 492 | 9 | 6 | 18 | 171 | 171 | 92 | 991 | 325 | 1447 | 2.87 |
| 37 | 250M | Siemens | 6 | 1700 | 200 | 80 | 650 | 560 | 512 | 9 | 6 | 18 | 171 | 171 | 71 | 991 | 405 | 1536 | 3.02 |
| 45 | 280S | Siemens | 6 | 1800 | 200 | 80 | 700 | 600 | 538 | 11 | 6 | 23 | 171 | 171 | 44 | 991 | 520 | 1709 | 3.34 |
| 55 | 280M | Siemens | 6 | 1800 | 200 | 80 | 700 | 600 | 538 | 11 | 6 | 23 | 171 | 171 | 154 | 991 | 570 | 1759 | 3.51 |
| 18.5 | 200LA | MMG-G | 6 | 1570 | 200 | 80 | 585 | 520 | 472 | 9 | 6 | 18 | 171 | 171 | 84 | 991 | 270 | 1261 | 3.571 |
| 22 | 200LB | MMG-G | 6 | 1570 | 200 | 80 | 585 | 520 | 472 | 9 | 6 | 18 | 171 | 171 | 84 | 991 | 290 | 1281 | 3.571 |
| 30 | 25MC | MMG-G | 6 | 1640 | 200 | 80 | 620 | 540 | 492 | 9 | 6 | 23 | 171 | 171 | 85 | 991 | 385 | 1376 | 3.699 |
| 37 | 250MC | MMG-G | 6 | 1700 | 200 | 80 | 650 | 560 | 512 | 9 | 6 | 18 | 171 | 171 | 105 | 991 | 460 | 1451 | 3.911 |
| 45 | 280SB | MMG-G | 6 | 1800 | 200 | 80 | 700 | 600 | 538 | 11 | 6 | 23 | 171 | 171 | 121 | 991 | 561 | 1552 | 4.842 |
| 55 | 280MB | MMG-G | 6 | 1800 | 200 | 80 | 700 | 600 | 538 | 11 | 6 | 23 | 171 | 171 | 171 | 991 | 635 | 1626 | 4.950 |

LS 350-250-498



TM072683

LS 350-250-498 dimensional sketches



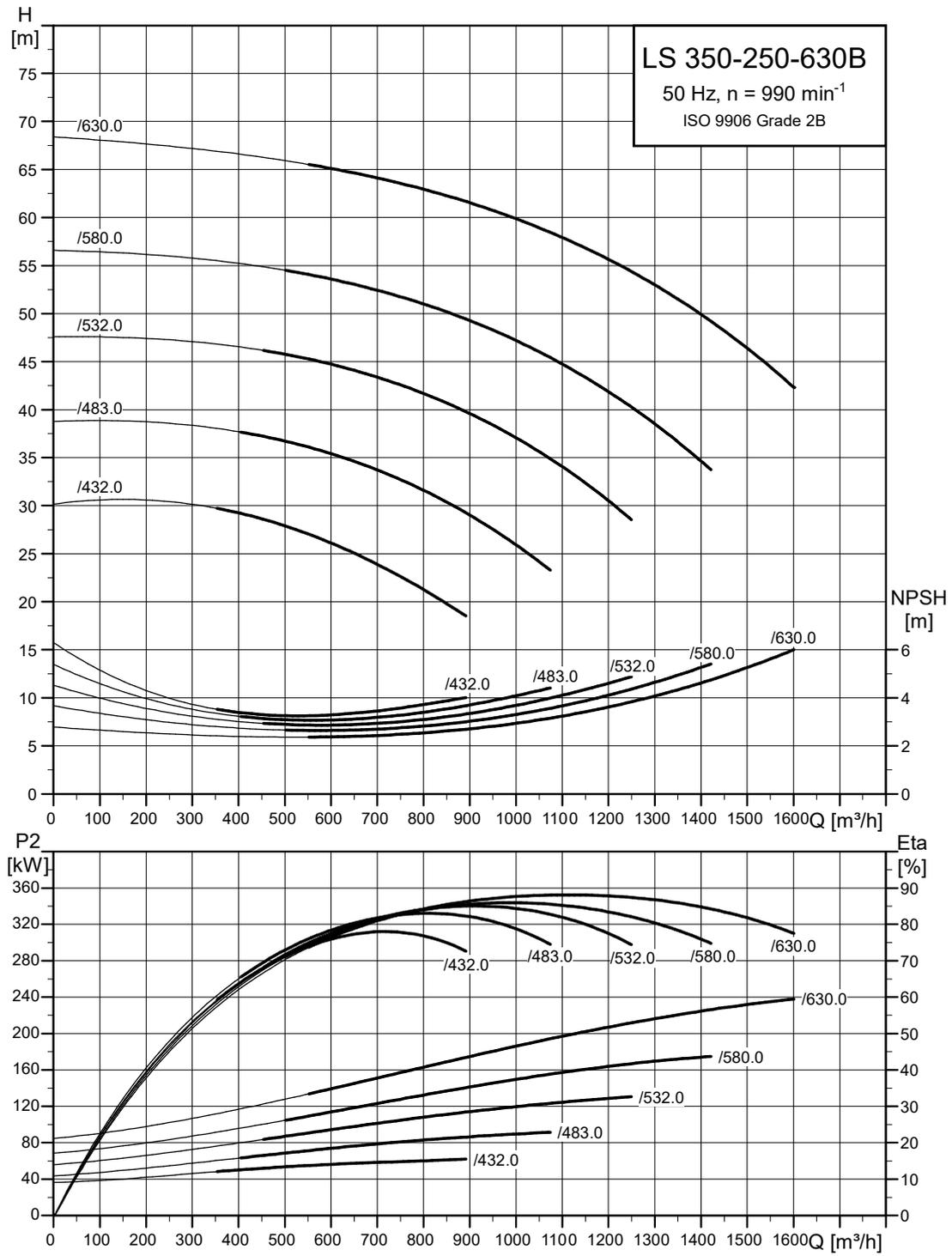
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LS 350-250-498 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | | Motor dimensions [mm] | | | Distance between shaft ends [mm] | |
|---------|------------|---------|------|----------------------|--------------|-----|-------|-----|-----|-----|-----|-----------------------|--------|------|----------------------------------|----|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 45 | 280S | Siemens | 6 | 1403 | 1403 | 797 | 79.38 | 508 | 660 | 446 | 446 | 785 | 960 | 1219 | 75 | 4 |
| 55 | 280M | Siemens | 6 | 1403 | 1403 | 797 | 79.38 | 508 | 660 | 446 | 446 | 785 | 960 | 1219 | 75 | 4 |
| 75 | 315S | Siemens | 6 | 1403 | 1403 | 797 | 79.38 | 508 | 660 | 446 | 446 | 785 | 1127 | 1325 | 80 | 4 |
| 90 | 315M | Siemens | 6 | 1403 | 1403 | 797 | 79.38 | 508 | 660 | 446 | 446 | 785 | 1127 | 1325 | 80 | 4 |
| 110 | 315L | Siemens | 6 | 1403 | 1403 | 797 | 79.38 | 508 | 660 | 446 | 446 | 785 | 1217 | 1325 | 80 | 4 |
| 132 | 315L | Siemens | 6 | 1403 | 1403 | 797 | 79.38 | 508 | 660 | 446 | 446 | 785 | 1217 | 1325 | 80 | 4 |
| 200 | 315L | Siemens | 6 | 1403 | 1403 | 797 | 79.38 | 508 | 660 | 426 | 426 | 785 | 1422 | 1266 | 85 | 4 |
| 45 | 280SB | MMG-G | 6 | 1403 | 1403 | 797 | 79.38 | 508 | 660 | 446 | 446 | 785 | 1037.5 | 1219 | 75 | 4 |
| 55 | 280MB | MMG-G | 6 | 1403 | 1403 | 797 | 79.38 | 508 | 660 | 446 | 446 | 785 | 1087.5 | 1219 | 75 | 4 |
| 75 | 315SB | MMG-G | 6 | 1403 | 1403 | 797 | 79.38 | 508 | 660 | 446 | 446 | 785 | 1246 | 1314 | 80 | 4 |
| 90 | 315MB | MMG-G | 6 | 1403 | 1403 | 797 | 79.38 | 508 | 660 | 446 | 446 | 785 | 1296 | 1314 | 80 | 4 |
| 110 | 315LB | MMG-G | 6 | 1403 | 1403 | 797 | 79.38 | 508 | 660 | 446 | 446 | 785 | 1396 | 1314 | 80 | 4 |
| 132 | 315LC | MMG-G | 6 | 1403 | 1403 | 797 | 79.38 | 508 | 660 | 446 | 446 | 785 | 1396 | 1314 | 80 | 4 |
| 160 | 355MB | MMG-G | 6 | 1403 | 1403 | 797 | 79.38 | 508 | 660 | 426 | 426 | 785 | 1605 | 1411 | 100 | 4 |

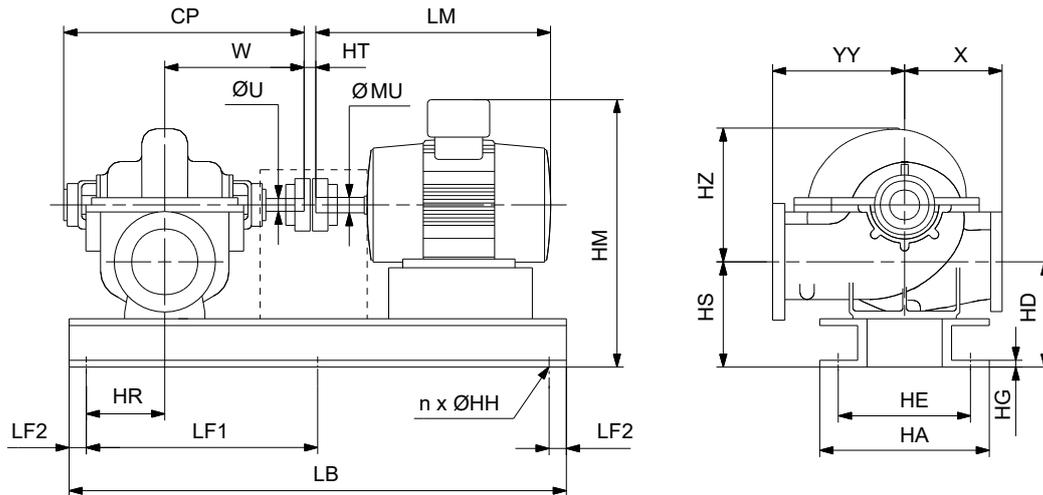
| Motor | | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] |
|---------|------------|---------|------|----------------------------|-----|-----|------|-----|-------|------|---|-----|-----------------|--------------|-----------|------------------|-------|-------|----------------------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | Shipping volume [m³] |
| | | | | | | | | | | | | | | | | | | | |
| 55 | 280M | Siemens | 6 | 2060 | 200 | 150 | 830 | 700 | 638 | 11 | 6 | 23 | 256 | 256 | 161 | 1436 | 570 | 2263 | 4.87 |
| 75 | 315S | Siemens | 6 | 2200 | 200 | 150 | 900 | 680 | 620 | 11 | 6 | 23 | 256 | 256 | 33 | 1436 | 760 | 2483 | 5.15 |
| 90 | 315M | Siemens | 6 | 2200 | 200 | 150 | 900 | 680 | 620 | 11 | 6 | 23 | 256 | 256 | 198 | 1436 | 935 | 2658 | 5.47 |
| 110 | 315L | Siemens | 6 | 2200 | 200 | 150 | 900 | 680 | 620 | 11 | 6 | 23 | 256 | 256 | 198 | 1436 | 1010 | 2733 | 5.47 |
| 132 | 315L | Siemens | 6 | 2200 | 200 | 150 | 900 | 680 | 620 | 11 | 6 | 23 | 256 | 256 | 198 | 1436 | 1180 | 2903 | 5.47 |
| 200 | 315L | Siemens | 6 | 2310 | 200 | 150 | 955 | 720 | 663 | 10.5 | 6 | 23 | 256 | 256 | 360 | 1436 | 1300 | 3048 | 5.64 |
| 45 | 280SB | MMG-G | 6 | 2060 | 200 | 150 | 830 | 700 | 638 | 11 | 6 | 23 | 256 | 256 | 128 | 1436 | 561 | 1997 | 6.592 |
| 55 | 280MB | MMG-G | 6 | 2060 | 200 | 150 | 830 | 700 | 638 | 11 | 6 | 23 | 256 | 256 | 178 | 1436 | 635 | 2071 | 6.719 |
| 75 | 315SB | MMG-G | 6 | 2300 | 250 | 100 | 900 | 680 | 620 | 11 | 6 | 23 | 256 | 256 | 97 | 1436 | 900 | 2336 | 7.461 |
| 90 | 315MB | MMG-G | 6 | 2300 | 250 | 100 | 900 | 680 | 620 | 11 | 6 | 23 | 256 | 256 | 147 | 1436 | 960 | 2396 | 7.595 |
| 110 | 315LB | MMG-G | 6 | 2300 | 250 | 100 | 900 | 680 | 620 | 11 | 6 | 23 | 256 | 256 | 247 | 1436 | 1090 | 2526 | 7.861 |
| 132 | 315LC | MMG-G | 6 | 2300 | 250 | 100 | 900 | 680 | 620 | 11 | 6 | 23 | 256 | 256 | 247 | 1436 | 1250 | 2686 | 7.861 |
| 160 | 355MB | MMG-G | 6 | 2410 | 200 | 150 | 1005 | 820 | 762.5 | 10.5 | 6 | 23 | 256 | 256 | 346 | 1436 | 1750 | 3186 | 8.871 |

LS 350-250-630



TM072685

LS 350-250-630 dimensional sketches



TM072172

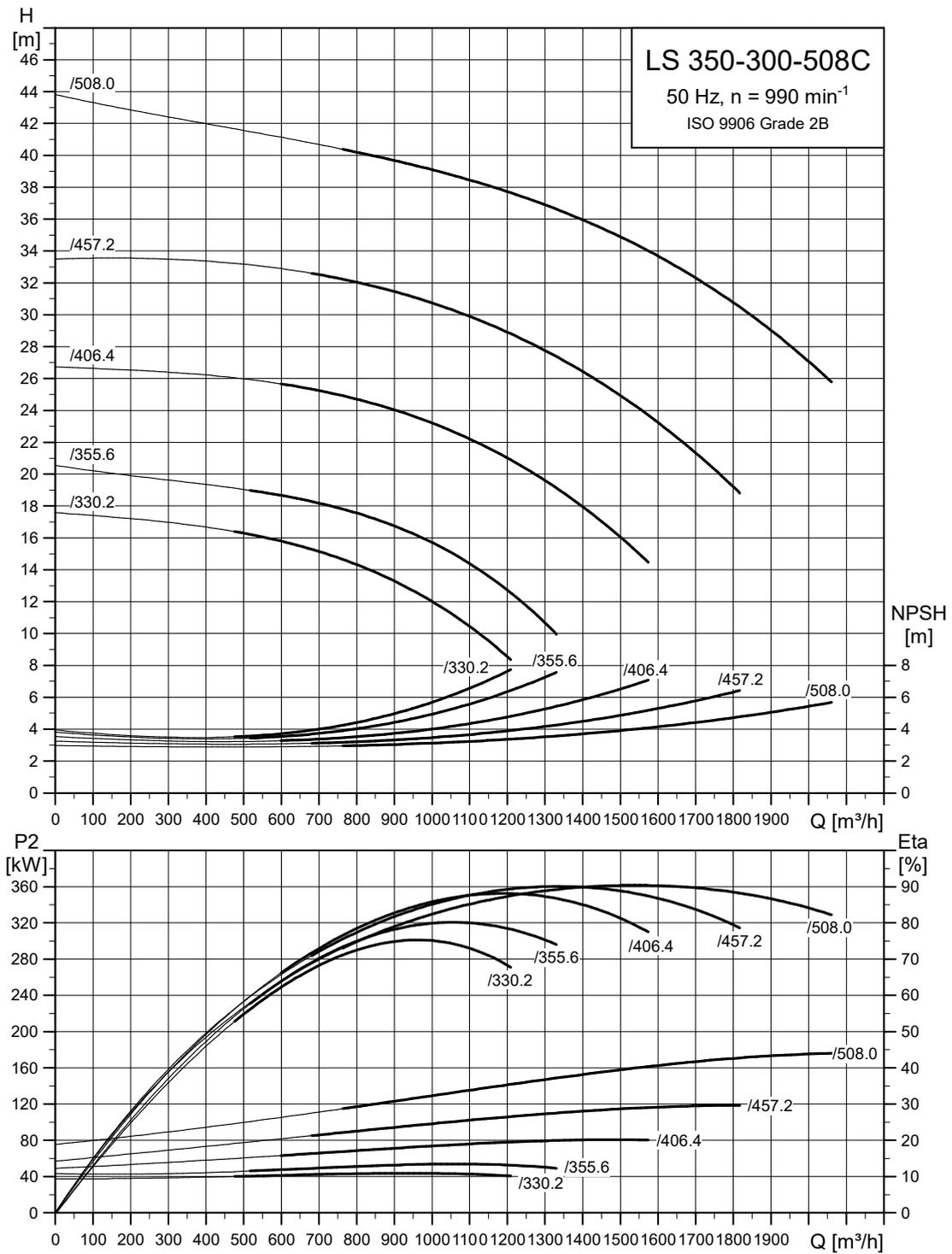
LS 350-250-630 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | | Motor dimensions [mm] | | | | Distance between shaft ends [mm] |
|---------|------------|---------|------|----------------------|--------------|-----|-------|-----|-----|-----|-----|-----------------------|------|------|-----|----------------------------------|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 75 | 315S | Siemens | 6 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 505 | 505 | 820 | 1127 | 1374 | 80 | 4 |
| 90 | 315M | Siemens | 6 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 505 | 505 | 820 | 1127 | 1374 | 80 | 4 |
| 110 | 315L | Siemens | 6 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 505 | 505 | 820 | 1217 | 1374 | 80 | 4 |
| 132 | 315L | Siemens | 6 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 505 | 505 | 820 | 1217 | 1374 | 80 | 4 |
| 160 | 315L | Siemens | 6 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 505 | 505 | 820 | 1357 | 1374 | 80 | 4 |
| 200 | 315L | Siemens | 6 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 505 | 505 | 820 | 1422 | 1335 | 85 | 4 |
| 250 | 315L | Siemens | 6 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 505 | 505 | 820 | 1400 | 1405 | 85 | 40 |
| 315 | 315L | Siemens | 6 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 485 | 485 | 820 | 1635 | 1505 | 95 | 4 |
| 75 | 315SB | MMG-G | 6 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 505 | 505 | 820 | 1246 | 1363 | 80 | 4 |
| 90 | 315MB | MMG-G | 6 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 505 | 505 | 820 | 1296 | 1363 | 80 | 4 |
| 110 | 315LB | MMG-G | 6 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 505 | 505 | 820 | 1396 | 1363 | 80 | 4 |
| 132 | 315LC | MMG-G | 6 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 505 | 505 | 820 | 1396 | 1363 | 80 | 4 |
| 160 | 355MB | MMG-G | 6 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 505 | 505 | 820 | 1605 | 1480 | 100 | 4 |
| 185 | 355MC | MMG-G | 6 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 505 | 505 | 820 | 1605 | 1480 | 100 | 4 |
| 200 | 355MD | MMG-G | 6 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 505 | 505 | 820 | 1605 | 1480 | 100 | 4 |
| 220 | 355ME | MMG-G | 6 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 505 | 505 | 820 | 1605 | 1480 | 100 | 5 |
| 250 | 355L | MMG-G | 6 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 505 | 505 | 820 | 1605 | 1480 | 100 | 4 |
| 300 | 355C | MMG-G | 6 | 1377 | 1377 | 799 | 79.38 | 610 | 711 | 505 | 505 | 820 | 1795 | 1480 | 100 | 5 |

| Motor | | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] |
|---------|------------|---------|------|----------------------------|-----|-----|------|-----|-----|------|---|-----|-----------------|--------------|-----------|------------------|-------|-------|----------------------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | Shipping volume [m³] |
| | | | | | | | | | | | | | | | | | | | |
| 75 | 315S | Siemens | 6 | 2310 | 200 | 150 | 955 | 724 | 656 | 11 | 6 | 23 | 228 | 228 | - | 1905 | 760 | 2982 | 6.04 |
| 90 | 315M | Siemens | 6 | 2310 | 200 | 150 | 955 | 724 | 656 | 11 | 6 | 23 | 228 | 228 | 104 | 1905 | 935 | 3157 | 6.27 |
| 110 | 315L | Siemens | 6 | 2310 | 200 | 150 | 955 | 724 | 656 | 11 | 6 | 23 | 228 | 228 | 104 | 1905 | 1010 | 3232 | 6.27 |
| 132 | 315L | Siemens | 6 | 2310 | 200 | 150 | 955 | 724 | 656 | 11 | 6 | 23 | 228 | 228 | 244 | 1905 | 1180 | 3402 | 6.58 |
| 160 | 315L | Siemens | 6 | 2310 | 200 | 150 | 955 | 724 | 656 | 11 | 6 | 23 | 228 | 228 | 244 | 1905 | 1180 | 3402 | 6.58 |
| 200 | 315L | Siemens | 6 | 2310 | 200 | 150 | 955 | 724 | 656 | 11 | 6 | 23 | 228 | 228 | 252 | 1905 | 1300 | 3522 | 6.53 |
| 250 | 315L | Siemens | 6 | 2310 | 200 | 150 | 955 | 724 | 656 | 11 | 6 | 23 | 228 | 228 | 242 | 1905 | 1500 | 3722 | 6.82 |
| 315 | 315L | Siemens | 6 | 2570 | 200 | 150 | 1085 | 835 | 778 | 10.5 | 6 | 23 | 228 | 228 | 217 | 1905 | 2000 | 4249 | 7.85 |
| 75 | 315SB | MMG-G | 6 | 2310 | 200 | 150 | 955 | 724 | 656 | 11 | 6 | 23 | 228 | 228 | 89 | 1905 | 900 | 2805 | 8.383 |
| 90 | 315MB | MMG-G | 6 | 2310 | 200 | 150 | 955 | 724 | 656 | 11 | 6 | 23 | 228 | 228 | 139 | 1905 | 960 | 2865 | 8.534 |
| 110 | 315LB | MMG-G | 6 | 2310 | 200 | 150 | 955 | 724 | 656 | 11 | 6 | 23 | 228 | 228 | 239 | 1905 | 1090 | 2995 | 8.836 |
| 132 | 315LC | MMG-G | 6 | 2310 | 200 | 150 | 955 | 724 | 656 | 11 | 6 | 23 | 228 | 228 | 239 | 1905 | 1250 | 3155 | 8.836 |
| 160 | 355MB | MMG-G | 6 | 2550 | 320 | 30 | 955 | 790 | 740 | 11 | 6 | 23 | 228 | 228 | 208 | 1905 | 1750 | 3655 | 10.065 |

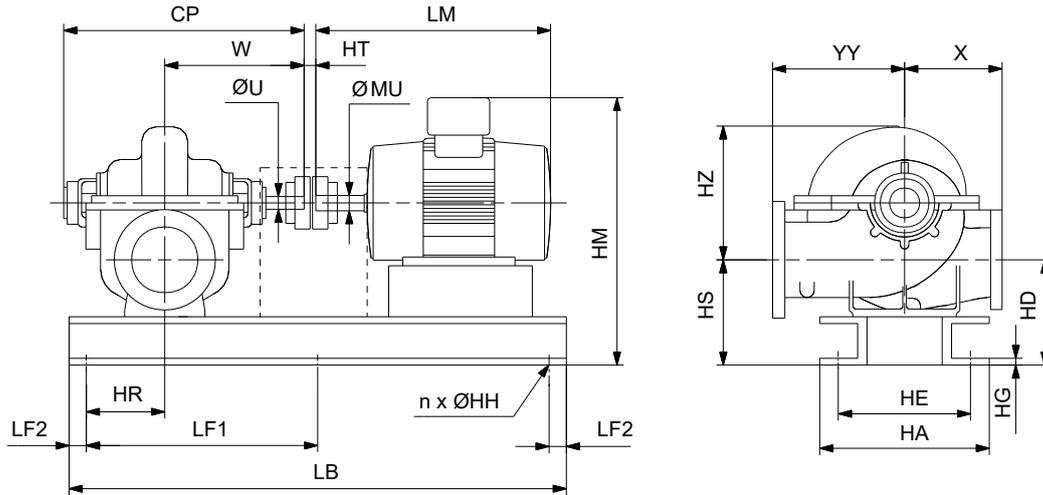
| P2 [kW] | Motor | | | Base frame dimensions [mm] | | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m ³] |
|------------|---------------|-------|------|----------------------------|-----|-----|------|-----|-----|----|---|-----|--------------------|-----------------|--------------|------------------|-------|-------|---|
| | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | |
| 185 | 355MC | MMG-G | 6 | 2550 | 320 | 30 | 955 | 790 | 740 | 11 | 6 | 23 | 228 | 228 | 208 | 1905 | 1900 | 3805 | 10.065 |
| 200 | 355MD | MMG-G | 6 | 2550 | 320 | 30 | 955 | 790 | 740 | 11 | 6 | 23 | 228 | 228 | 208 | 1905 | 1950 | 3855 | 10.065 |
| 220 | 355ME | MMG-G | 6 | 2550 | 320 | 30 | 955 | 790 | 740 | 11 | 6 | 23 | 228 | 228 | 209 | 1905 | 2020 | 3925 | 10.067 |
| 250 | 355L | MMG-G | 6 | 2550 | 320 | 30 | 955 | 790 | 740 | 11 | 6 | 23 | 228 | 228 | 208 | 1905 | 2200 | 4105 | 10.065 |
| 300 | 355C | MMG-G | 6 | 2710 | 200 | 148 | 1155 | 805 | 737 | 11 | 6 | 18 | 230 | 230 | 237 | 1905 | 2400 | 4305 | 10.677 |

LS 350-300-508



TM072686

LS 350-300-508 dimensional sketches



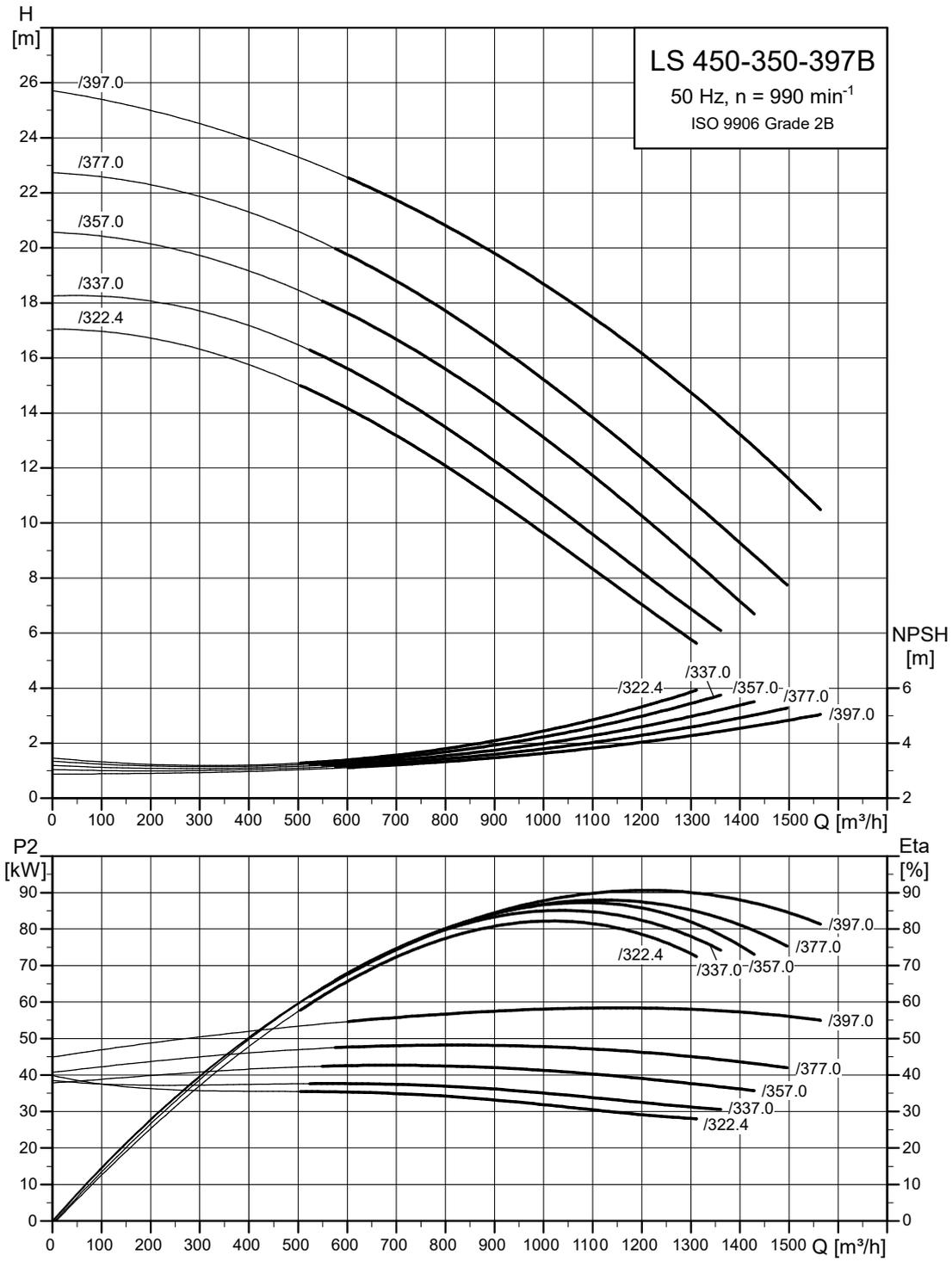
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LS 350-300-508 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | | Motor dimensions [mm] | | | Distance between shaft ends [mm] | |
|---------|------------|---------|------|----------------------|--------------|-----|------|-----|-----|-----|-----|-----------------------|--------|------|----------------------------------|----|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 55 | 280M | Siemens | 6 | 1377 | 1377 | 749 | 63.5 | 584 | 711 | 513 | 513 | 790 | 960 | 1276 | 75 | 4 |
| 75 | 315S | Siemens | 6 | 1377 | 1377 | 749 | 63.5 | 584 | 711 | 513 | 513 | 790 | 1127 | 1382 | 80 | 4 |
| 90 | 315M | Siemens | 6 | 1377 | 1377 | 749 | 63.5 | 584 | 711 | 513 | 513 | 790 | 1127 | 1382 | 80 | 4 |
| 110 | 315L | Siemens | 6 | 1377 | 1377 | 749 | 63.5 | 584 | 711 | 513 | 513 | 790 | 1217 | 1382 | 80 | 4 |
| 132 | 315L | Siemens | 6 | 1377 | 1377 | 749 | 63.5 | 584 | 711 | 513 | 513 | 790 | 1217 | 1382 | 80 | 4 |
| 160 | 315L | Siemens | 6 | 1377 | 1377 | 749 | 63.5 | 584 | 711 | 513 | 513 | 790 | 1357 | 1382 | 80 | 4 |
| 200 | 315L | Siemens | 6 | 1377 | 1377 | 749 | 63.5 | 584 | 711 | 513 | 513 | 790 | 1422 | 1343 | 85 | 4 |
| 55 | 280MB | MMG-G | 6 | 1377 | 1377 | 749 | 63.5 | 584 | 711 | 513 | 513 | 790 | 1087.5 | 1276 | 75 | 4 |
| 75 | 315SB | MMG-G | 6 | 1377 | 1377 | 749 | 63.5 | 584 | 711 | 513 | 513 | 790 | 1246 | 1371 | 80 | 4 |
| 90 | 315MB | MMG-G | 6 | 1377 | 1377 | 749 | 63.5 | 584 | 711 | 513 | 513 | 790 | 1296 | 1371 | 80 | 4 |
| 110 | 315LB | MMG-G | 6 | 1377 | 1377 | 749 | 63.5 | 584 | 711 | 513 | 513 | 790 | 1396 | 1371 | 80 | 4 |
| 132 | 315LC | MMG-G | 6 | 1377 | 1377 | 749 | 63.5 | 584 | 711 | 513 | 513 | 790 | 1396 | 1371 | 80 | 4 |
| 160 | 355MB | MMG-G | 6 | 1377 | 1377 | 749 | 63.5 | 584 | 711 | 513 | 513 | 790 | 1605 | 1488 | 100 | 4 |
| 185 | 355MC | MMG-G | 6 | 1377 | 1377 | 749 | 63.5 | 584 | 711 | 513 | 513 | 790 | 1605 | 1488 | 100 | 27 |
| 200 | 355MD | MMG-G | 6 | 1377 | 1377 | 749 | 63.5 | 584 | 711 | 513 | 513 | 790 | 1605 | 1488 | 100 | 27 |

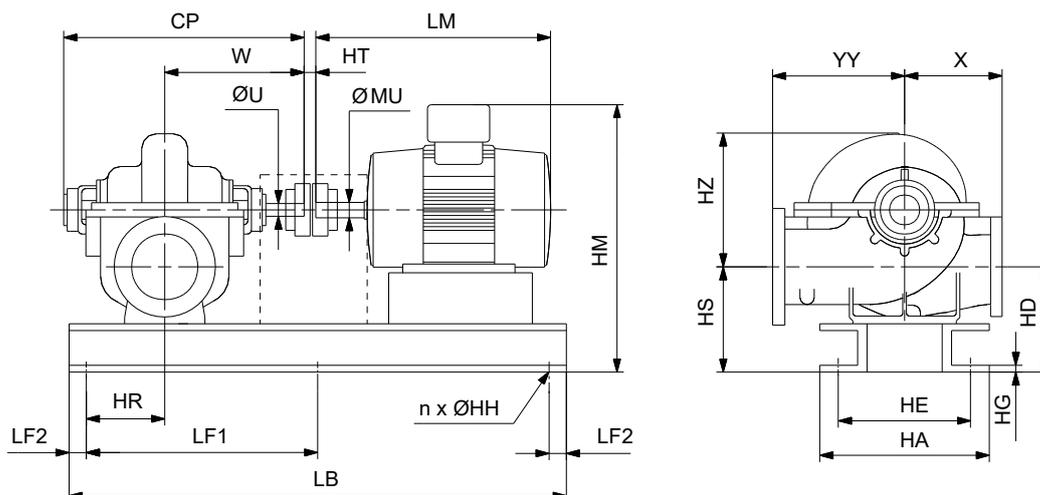
| Motor | | | | Base frame dimensions [mm] | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m³] | |
|---------|------------|---------|------|----------------------------|-----|-----|-----|-----|-----|----|---|---------------|-----------------|--------------|------------------|------|-------|----------------------|--------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | | Total |
| | | | | | | | | | | | | | | | | | | 55 | |
| 75 | 315S | Siemens | 6 | 2290 | 200 | 150 | 945 | 710 | 656 | 11 | 6 | 23 | 278 | 278 | - | 1318 | 760 | 2356 | 5.97 |
| 90 | 315M | Siemens | 6 | 2290 | 200 | 150 | 945 | 710 | 656 | 11 | 6 | 23 | 278 | 278 | 60 | 1318 | 935 | 2531 | 6.10 |
| 110 | 315L | Siemens | 6 | 2290 | 200 | 150 | 945 | 710 | 656 | 11 | 6 | 23 | 278 | 278 | 60 | 1318 | 1010 | 2606 | 6.10 |
| 132 | 315L | Siemens | 6 | 2290 | 200 | 150 | 945 | 710 | 656 | 11 | 6 | 23 | 278 | 278 | 60 | 1318 | 1180 | 2776 | 6.10 |
| 160 | 315L | Siemens | 6 | 2290 | 200 | 150 | 945 | 710 | 656 | 11 | 6 | 23 | 278 | 278 | 60 | 1318 | 1180 | 2776 | 6.10 |
| 200 | 315L | Siemens | 6 | 2290 | 200 | 150 | 945 | 710 | 656 | 11 | 6 | 23 | 278 | 278 | 60 | 1318 | 1300 | 2896 | 6.04 |
| 55 | 280MB | MMG-G | 6 | 2020 | 200 | 150 | 810 | 700 | 638 | 11 | 6 | 23 | 278 | 278 | 171 | 1318 | 635 | 1953 | 7.531 |
| 75 | 315SB | MMG-G | 6 | 2290 | 215 | 135 | 930 | 710 | 656 | 11 | 6 | 23 | 278 | 278 | 59 | 1318 | 900 | 2218 | 8.285 |
| 90 | 315MB | MMG-G | 6 | 2290 | 215 | 135 | 930 | 710 | 656 | 11 | 6 | 23 | 278 | 278 | 109 | 1318 | 960 | 2278 | 8.435 |
| 110 | 315LB | MMG-G | 6 | 2290 | 215 | 135 | 930 | 710 | 656 | 11 | 6 | 23 | 278 | 278 | 209 | 1318 | 1090 | 2408 | 8.733 |
| 132 | 315LC | MMG-G | 6 | 2290 | 215 | 135 | 930 | 710 | 656 | 11 | 6 | 23 | 278 | 278 | 209 | 1318 | 1250 | 2568 | 8.733 |
| 160 | 355MB | MMG-G | 6 | 2500 | 320 | 30 | 930 | 810 | 756 | 11 | 6 | 23 | 278 | 278 | 208 | 1318 | 1750 | 3068 | 9.944 |
| 185 | 355MC | MMG-G | 6 | 2500 | 320 | 30 | 930 | 810 | 756 | 11 | 6 | 23 | 278 | 278 | 231 | 1318 | 1900 | 3218 | 10.017 |
| 200 | 355MD | MMG-G | 6 | 2500 | 320 | 30 | 930 | 810 | 756 | 11 | 6 | 23 | 278 | 278 | 231 | 1318 | 1950 | 3268 | 10.017 |

LS 450-350-397



TM072688

LS 450-350-397 dimensional sketches



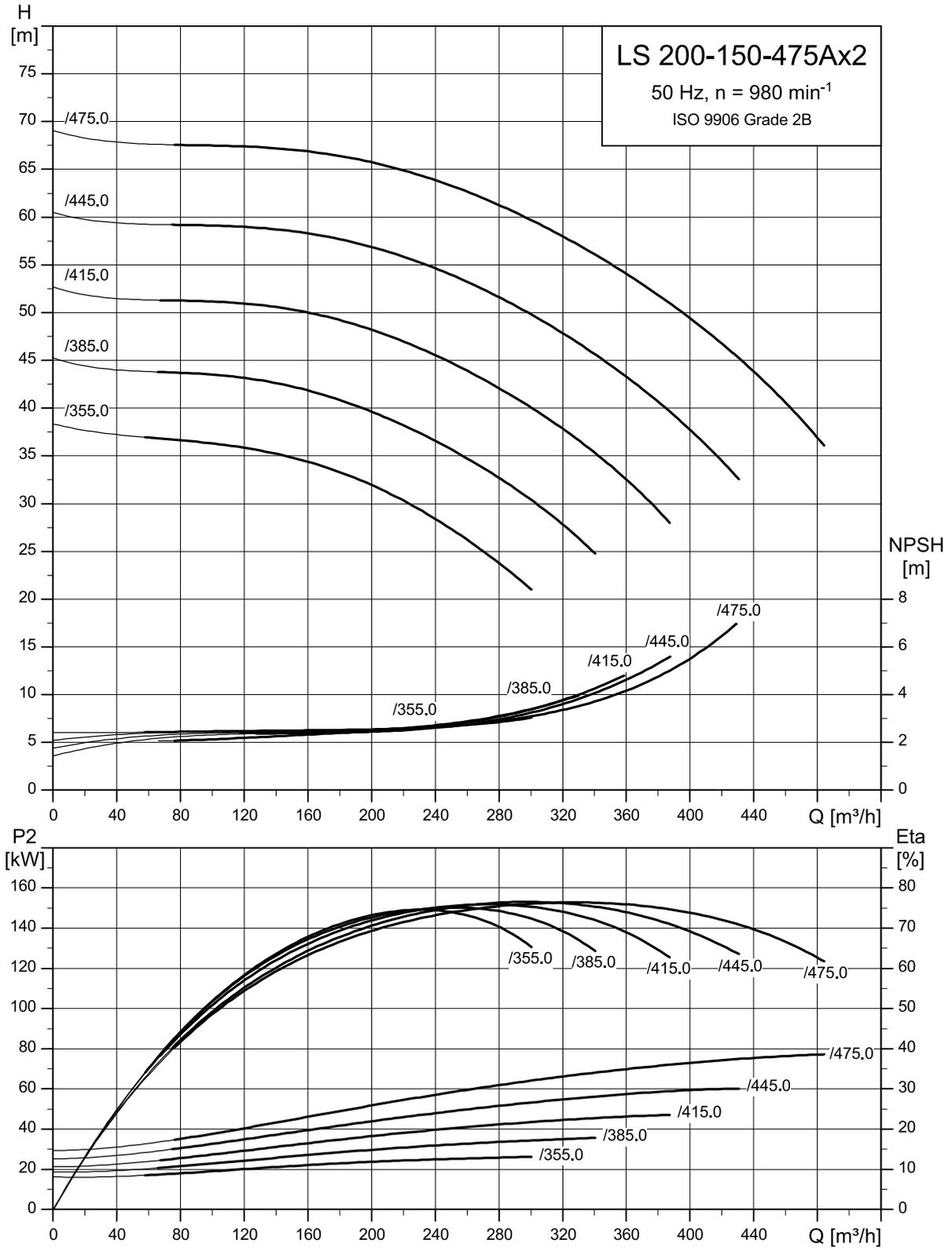
TM072172

LS 450-350-397 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | | | Motor dimensions [mm] | | | | Distance between shaft ends [mm] |
|---------|------------|---------|------|----------------------|--------------|-------|------|-----|-----|-----|-----|-----------------------|--------|------|-----|----------------------------------|
| P2 [kW] | Frame size | Brand | Pole | CP | | W | ØU | X | YY | HD | HS | HZ | LM | HM | ØMU | HT |
| | | | | Mechanical seal | Stuffing box | | | | | | | | | | | |
| 37 | 250M | Siemens | 6 | 1400 | 1400 | 773.5 | 63.5 | 545 | 625 | 485 | 485 | 730 | 887 | 1280 | 65 | 4 |
| 45 | 280S | Siemens | 6 | 1400 | 1400 | 773.5 | 63.5 | 545 | 625 | 485 | 485 | 730 | 960 | 1303 | 75 | 4 |
| 55 | 280M | Siemens | 6 | 1400 | 1400 | 773.5 | 63.5 | 545 | 625 | 485 | 485 | 730 | 960 | 1303 | 75 | 4 |
| 75 | 315S | Siemens | 6 | 1400 | 1400 | 773.5 | 63.5 | 545 | 625 | 485 | 485 | 730 | 1127 | 1409 | 80 | 4 |
| 37 | 250MC | MMG-G | 6 | 1400 | 1400 | 773.5 | 63.5 | 545 | 625 | 485 | 485 | 730 | 921 | 1250 | 65 | 4 |
| 45 | 280SB | MMG-G | 6 | 1400 | 1400 | 773.5 | 63.5 | 545 | 625 | 485 | 485 | 730 | 1037.5 | 1283 | 75 | 4 |
| 55 | 280MB | MMG-G | 6 | 1400 | 1400 | 773.5 | 63.5 | 545 | 625 | 485 | 485 | 730 | 1087.5 | 1283 | 75 | 4 |
| 75 | 315SB | MMG-G | 6 | 1400 | 1400 | 773.5 | 63.5 | 545 | 625 | 485 | 485 | 730 | 1246 | 1378 | 80 | 4 |

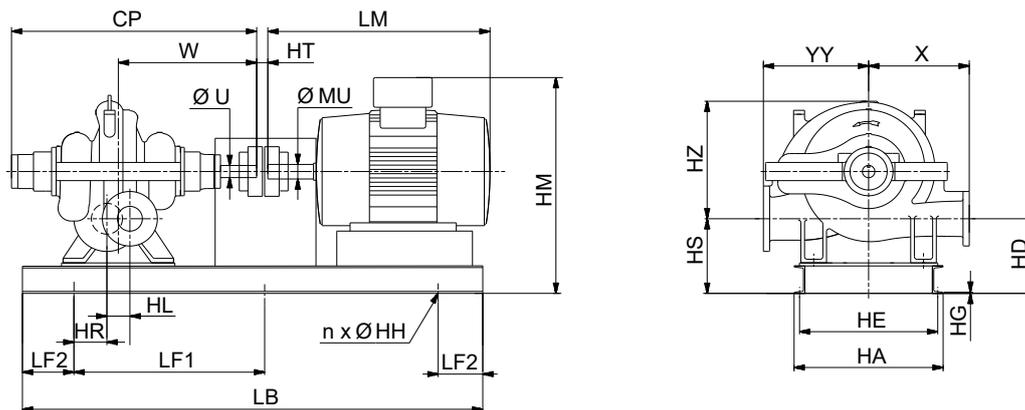
| Motor | | | | Base frame dimensions [mm] | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | Shipping volume [m ³] | |
|---------|------------|---------|------|----------------------------|-----|-----|------|-----|-------|----|---|---------------|-----------------|--------------|------------------|------|-------|-----------------------------------|-----------------------------------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | LF1 | HA | HE | HG | n | ØHH | Mechanical seal | Stuffing box | Motor end | Pump | Motor | Total | Shipping volume [m ³] |
| | | | | | | | | | | | | | | | | | | | |
| 45 | 280S | Siemens | 6 | 2040 | 200 | 230 | 871 | 820 | 758 | 11 | 6 | 23 | 288 | 288 | - | 1460 | 520 | 2278 | 5.04 |
| 55 | 280M | Siemens | 6 | 2040 | 200 | 230 | 871 | 820 | 758 | 11 | 6 | 23 | 288 | 288 | - | 1460 | 570 | 2328 | 5.04 |
| 75 | 315S | Siemens | 6 | 2330 | 200 | 230 | 1016 | 805 | 755 | 11 | 6 | 23 | 146 | 146 | - | 1460 | 760 | 2561 | 5.50 |
| 37 | 250MC | MMG-G | 6 | 2008 | 200 | 228 | 780 | 805 | 750 | 11 | 6 | 23 | 199 | 199 | 118 | 1460 | 460 | 1920 | 6.366 |
| 45 | 280SB | MMG-G | 6 | 2040 | 200 | 228 | 820 | 820 | 758 | 11 | 6 | 23 | 199 | 199 | 203 | 1460 | 561 | 2021 | 6.791 |
| 55 | 280MB | MMG-G | 6 | 2040 | 200 | 228 | 820 | 820 | 758 | 11 | 6 | 23 | 199 | 199 | 253 | 1460 | 635 | 2095 | 6.922 |
| 75 | 315SB | MMG-G | 6 | 2330 | 200 | 228 | 965 | 805 | 754.5 | 11 | 6 | 23 | 199 | 199 | 121 | 1460 | 900 | 2360 | 7.727 |

LS 200-150-475x2



TM072760

LS 200-150-475x2 dimensional sketches



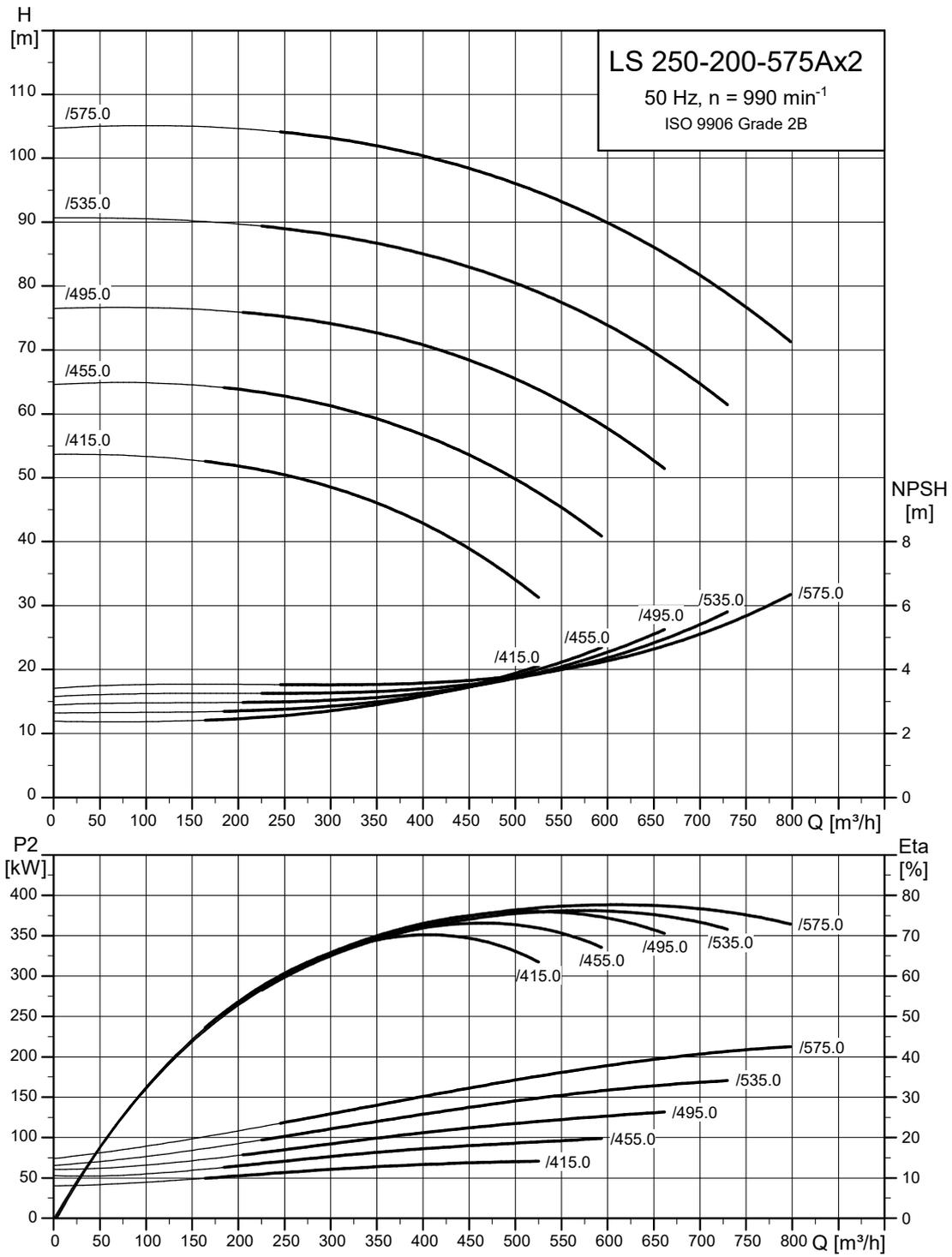
TM072170

LS 200-150-475x2 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | | Motor dimensions [mm] | | | Distance between shaft ends [mm] | | Shipping volume [m ³] |
|---------|------------|-------|------|----------------------|-----|-------|-----|-----|-------|-----------------------|--------|------|----------------------------------|----|-----------------------------------|
| P2 [kW] | Frame size | Brand | Pole | CP | W | ØU | X | YY | HD/HS | HZ | LM | HM | ØMU | HT | |
| 37 | 250MC | MMG-G | 6 | 1142 | 615 | 57.15 | 550 | 575 | 400 | 685 | 921 | 1060 | 65 | 4 | 5.007 |
| 45 | 280SB | MMG-G | 6 | 1142 | 615 | 57.15 | 550 | 575 | 400 | 685 | 1037.5 | 1093 | 75 | 9 | 5.308 |
| 55 | 280MB | MMG-G | 6 | 1142 | 615 | 57.15 | 550 | 575 | 400 | 685 | 1087.5 | 1093 | 75 | 9 | 5.422 |
| 75 | 315SB | MMG-G | 6 | 1142 | 615 | 57.15 | 550 | 575 | 400 | 685 | 1246 | 1188 | 80 | 14 | 6.137 |
| 90 | 315MB | MMG-G | 6 | 1142 | 615 | 57.15 | 550 | 575 | 400 | 685 | 1296 | 1188 | 80 | 14 | 6.257 |

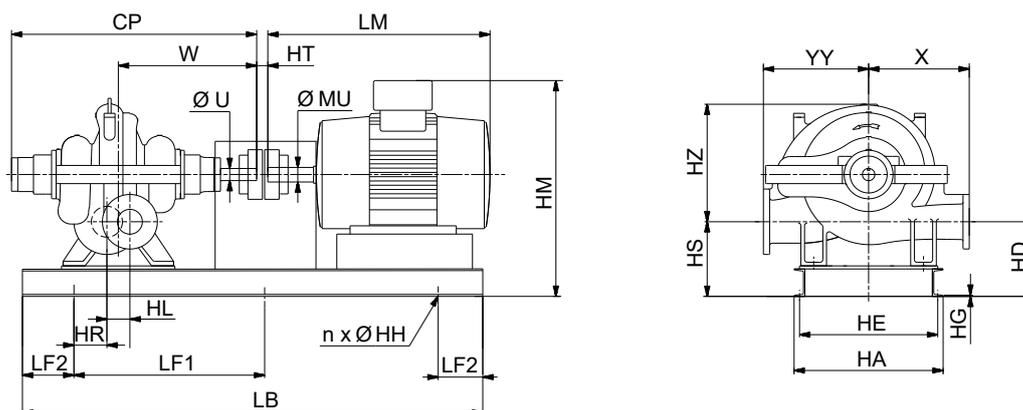
| Motor | | | | Base frame dimensions [mm] | | | | | | | | Overhang [mm] | | Net weights [kg] | | | | |
|---------|------------|-------|------|----------------------------|-----|-----|-----|-----|-----|-----|-----|---------------|-----|------------------|-------|------|-------|-------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | HL | LF1 | HA | HE | HG | n | ØHH | Pump | Motor | Pump | Motor | Total |
| 37 | 250MC | MMG-G | 6 | 1824 | 200 | 130 | 130 | 712 | 830 | 786 | 9.5 | 6 | 23 | 197 | 46 | 960 | 460 | 1420 |
| 45 | 280SB | MMG-G | 6 | 1952 | 200 | 130 | 130 | 776 | 830 | 786 | 9.5 | 6 | 23 | 197 | 40 | 960 | 561 | 1521 |
| 55 | 280MB | MMG-G | 6 | 1952 | 200 | 130 | 130 | 776 | 830 | 786 | 9.5 | 6 | 23 | 197 | 90 | 960 | 635 | 1595 |
| 75 | 315SB | MMG-G | 6 | 2178 | 200 | 130 | 130 | 889 | 830 | 786 | 9.5 | 6 | 23 | 197 | 27 | 960 | 900 | 1860 |
| 90 | 315MB | MMG-G | 6 | 2178 | 200 | 130 | 130 | 889 | 830 | 786 | 9.5 | 6 | 23 | 197 | 77 | 960 | 960 | 1920 |

LS 250-200-575x2



TM072764

LS 250-200-575x2 dimensional sketches



TM072170

LS 250-200-575x2 dimensions

| Motor | | | | Pump dimensions [mm] | | | | | Motor dimensions [mm] | | | Distance between shaft ends [mm] | | Shipping volume [m ³] | |
|---------|------------|-------|------|----------------------|-----|-------|-----|-----|-----------------------|-----|------|----------------------------------|-----|-----------------------------------|--------|
| P2 [kW] | Frame size | Brand | Pole | CP | W | ØU | X | YY | HD/HS | HZ | LM | HM | ØMU | HT | |
| 90 | 315MB | MMG-G | 6 | 1496 | 800 | 79.38 | 600 | 750 | 450 | 850 | 1296 | 1288 | 80 | 9 | 8.791 |
| 110 | 315LB | MMG-G | 6 | 1496 | 800 | 79.38 | 600 | 750 | 450 | 850 | 1396 | 1288 | 80 | 9 | 9.089 |
| 132 | 315LC | MMG-G | 6 | 1496 | 800 | 79.38 | 600 | 750 | 450 | 850 | 1396 | 1288 | 80 | 9 | 9.089 |
| 160 | 355MB | MMG-G | 6 | 1496 | 800 | 79.38 | 600 | 750 | 490 | 850 | 1605 | 1445 | 100 | 19 | 10.732 |
| 185 | 355MC | MMG-G | 6 | 1496 | 800 | 79.38 | 600 | 750 | 490 | 850 | 1605 | 1445 | 100 | 19 | 10.732 |
| 200 | 355MD | MMG-G | 6 | 1496 | 800 | 79.38 | 600 | 750 | 490 | 850 | 1605 | 1445 | 100 | 19 | 10.732 |
| 220 | 355ME | MMG-G | 6 | 1496 | 800 | 79.38 | 600 | 750 | 490 | 850 | 1605 | 1445 | 100 | 19 | 10.732 |
| 250 | 355L | MMG-G | 6 | 1496 | 800 | 79.38 | 600 | 750 | 490 | 850 | 1605 | 1445 | 100 | 19 | 10.732 |

| Motor | | | | Base frame dimensions [mm] | | | | | | | | Overhang [mm] | | | Net weights [kg] | | | |
|---------|------------|-------|------|----------------------------|-----|-----|-----|------|------|------|------|---------------|-----|------|------------------|------|-------|-------|
| P2 [kW] | Frame size | Brand | Pole | LB | LF2 | HR | HL | LF1 | HA | HE | HG | n | ØHH | Pump | Motor | Pump | Motor | Total |
| 90 | 315MB | MMG-G | 6 | 2276 | 200 | 190 | 150 | 938 | 1210 | 1166 | 9.5 | 6 | 23 | 306 | 219 | 1452 | 960 | 2412 |
| 110 | 315LB | MMG-G | 6 | 2276 | 200 | 190 | 150 | 938 | 1210 | 1166 | 9.5 | 6 | 23 | 306 | 319 | 1452 | 1090 | 2542 |
| 132 | 315LC | MMG-G | 6 | 2276 | 200 | 190 | 150 | 938 | 1210 | 1166 | 9.5 | 6 | 23 | 306 | 319 | 1452 | 1250 | 2702 |
| 160 | 355MB | MMG-G | 6 | 2878 | 200 | 190 | 150 | 1239 | 1210 | 1158 | 10.5 | 6 | 23 | 306 | - | 1452 | 1750 | 3202 |
| 185 | 355MC | MMG-G | 6 | 2878 | 200 | 190 | 150 | 1239 | 1210 | 1158 | 10.5 | 6 | 23 | 306 | - | 1452 | 1900 | 3352 |
| 200 | 355MD | MMG-G | 6 | 2878 | 200 | 190 | 150 | 1239 | 1210 | 1158 | 10.5 | 6 | 23 | 306 | - | 1452 | 1950 | 3402 |
| 220 | 355ME | MMG-G | 6 | 2878 | 200 | 190 | 150 | 1239 | 1210 | 1158 | 10.5 | 6 | 23 | 306 | - | 1452 | 2020 | 3472 |
| 250 | 355L | MMG-G | 6 | 2878 | 200 | 190 | 150 | 1239 | 1210 | 1158 | 10.5 | 6 | 23 | 306 | - | 1452 | 2200 | 3652 |

13. Electrical data

The standard motor brands used for the LS pump range are MMG-G (IE3), MG (IE3) and Siemens (IE3, IE4) motors. Other motor makes are available on request.

For special voltage variants, please contact Grundfos.

Standard motor brands

MMG-G, 2-pole, IE3

| Motor P2 [kW] | Frame size | Standard voltage [V] | I _{1/1} [A] | Cos φ _{1/1} | η [%] | I _{start} /I _{1/1} [%] |
|---------------|------------|----------------------|----------------------|----------------------|-------|--|
| 11 | 160M | 3 x 380-420 D/660 Y | 20.4 - 18.4 / 11.7 | 0.90 | 91.2 | 775 |
| 15 | 160M | 3 x 380-420 D/660 Y | 27.9 - 25.2 / 16 | 0.89 | 91.9 | 869 |
| 18.5 | 160L | 3 x 380-420 D/660 Y | 33.8 - 30.6 / 19.5 | 0.90 | 92.4 | 810 |
| 22 | 180M | 3 x 380-420 D/660 Y | 41.4 - 37.5 / 23.9 | 0.87 | 92.7 | 762 |
| 30 | 200L | 3 x 380-420 D/660 Y | 54.3 - 49.1 / 31.3 | 0.90 | 93.3 | 776 |
| 37 | 200L | 3 x 380-420 D/660 Y | 65.9 - 59.7 / 38 | 0.91 | 93.7 | 814 |
| 45 | 225MA | 3 x 380-420 D/660 Y | 79.9 - 72.3 / 46 | 0.91 | 94 | 810 |
| 55 | 250MA | 3 x 380-420 D/660 Y | 96.8 - 87.6 / 55.8 | 0.92 | 94.3 | 799 |
| 75 | 280SA | 3 x 380-420 D/660 Y | 148-134 / 85 | 0.82 | 94.7 | 777 |
| 90 | 280MA | 3 x 380-420 D/660 Y | 159-144 / 91.6 | 0.91 | 95 | 831 |
| 110 | 315SA | 3 x 380-420 D/660 Y | 195-176 / 112 | 0.90 | 95.2 | 760 |
| 132 | 315MA | 3 x 380-420 D/660 Y | 232-210 / 134 | 0.91 | 95.4 | 750 |
| 160 | 315L | 3 x 380-420 D/660 Y | 279-253 / 161 | 0.91 | 95.6 | 808 |

MMG-G, 4-pole, IE3

| Motor P2 [kW] | Frame size | Standard voltage [V] | I _{1/1} [A] | Cos φ _{1/1} | η [%] | I _{start} /I _{1/1} [%] |
|---------------|------------|----------------------|----------------------|----------------------|-------|--|
| 1.5 | 90L | 3 x 380-420 D/660 Y | 3.6 - 3.2 / 2.1 | 0.75 | 85.3 | 768 |
| 2.2 | 100L | 3 x 380-420 D/660 Y | 4.8 - 4.3 / 2.7 | 0.81 | 86.7 | 730 |
| 3 | 100L | 3 x 380-420 D/660 Y | 6.7 - 6 / 3.8 | 0.78 | 87.7 | 774 |
| 4 | 112M | 3 x 380-420 D/660 Y | 8.4 - 7.6 / 4.8 | 0.82 | 88.6 | 717 |
| 5.5 | 132S | 3 x 380-420 D/660 Y | 11 - 9.9 / 6.3 | 0.85 | 89.6 | 739 |
| 7.5 | 132M | 3 x 380-420 D/660 Y | 14.9 - 13.5 / 8.6 | 0.85 | 90.4 | 776 |
| 11 | 160M | 3 x 380-420 D/660 Y | 21.8 - 19.7 / 12.5 | 0.84 | 91.4 | 774 |
| 15 | 160L | 3 x 380-420 D/660 Y | 29.3 - 26.5 / 16.9 | 0.85 | 92.1 | 809 |
| 18.5 | 180M | 3 x 380-420 D/660 Y | 37.2 - 33.7 / 21.4 | 0.82 | 92.6 | 763 |
| 22 | 180L | 3 x 380-420 D/660 Y | 44.4 - 40.1 / 25.5 | 0.81 | 93 | 747 |
| 30 | 200L | 3 x 380-420 D/660 Y | 56.6 - 51.2 / 32.6 | 0.86 | 93.6 | 827 |
| 37 | 225S | 3 x 380-420 D/660 Y | 70 - 63.4 / 40.3 | 0.86 | 93.9 | 759 |
| 45 | 225M | 3 x 380-420 D/660 Y | 85.9 - 77.7 / 49.5 | 0.85 | 94.2 | 735 |
| 55 | 250M | 3 x 380-420 D/660 Y | 101 - 91.3 / 58.1 | 0.88 | 94.6 | 782 |
| 75 | 280S | 3 x 380-420 D/660 Y | 141.1 - 128 / 81.2 | 0.85 | 95 | 768 |
| 90 | 280M | 3 x 380-420 D/660 Y | 171-155 / 98.5 | 0.84 | 95.2 | 778 |
| 110 | 315S | 3 x 380-420 D/660 Y | 196.8 - 178 / 113 | 0.89 | 95.4 | 750 |
| 132 | 315M | 3 x 380-420 D/660 Y | 235.7 - 213 / 136 | 0.89 | 95.6 | 740 |
| 160 | 315L | 3 x 380-420 D/660 Y | 283.5 - 257 / 163 | 0.90 | 95.8 | 743 |
| 200 | 315L | 3 x 380-420 D/660 Y | 351.7 - 318 / 202 | 0.90 | 96 | 748 |
| 250 | 315M | 3 x 380-420 D/660 Y | 445.6 - 403 / 257 | 0.89 | 96 | 775 |
| 315 | 355L | 3 x 380-420 D/660 Y | 557-504/321 | 0.90 | 96 | 737 |
| 355 | 355C | 3 x 380-420 D/660 Y | 624.3 - 565 / 359 | 0.90 | 96 | 730 |
| 400 | 315DB | 3 x 380-420 D | 739-669 | 0.86 | 96.2 | 724 |
| 425 | 355CB | 3 x 380-420 D | 789-714 | 0.85 | 96.2 | 715 |

| Motor P2 [kW] | Frame size | Standard voltage [V] | $I_{1/1}$ [A] | $\cos \varphi_{1/1}$ | η [%] | $I_{start}/I_{1/1}$ [%] |
|---------------|------------|----------------------|---------------|----------------------|------------|-------------------------|
| 450 | 355CB | 3 x 380-420 D | 836-756 | 0.85 | 96.2 | 757 |
| 475 | 355CB | 3 x 380-420 D | 873-790 | 0.86 | 96.2 | 726 |
| 500 | 355CB | 3 x 380-420 D | 917-830 | 0.86 | 96.3 | 767 |
| 530 | 355CB | 3 x 380-420 D | 973-880 | 0.86 | 96.3 | 744 |
| 560 | 400CB | 3 x 380-420 D | 1034-935 | 0.86 | 96.3 | 715 |
| 600 | 400CB | 3 x 380-420 D | 1101-996 | 0.86 | 96.3 | 696 |

MMG-G, 6-pole, IE3

| Motor P2 [kW] | Frame size | Standard voltage [V] | $I_{1/1}$ [A] | $\cos \varphi_{1/1}$ | η [%] | $I_{start}/I_{1/1}$ [%] |
|---------------|------------|----------------------|--------------------|----------------------|------------|-------------------------|
| 11 | 160L | 3 x 380-420 D/660 Y | 23.7 - 21.5 / 13.7 | 0.78 | 90.3 | 754 |
| 15 | 180L | 3 x 380-420 D/660 Y | 30.5 - 27.6 / 17.5 | 0.82 | 91.2 | 691 |
| 18.5 | 200L | 3 x 380-420 D/660 Y | 38.1 - 34.5 / 21.9 | 0.81 | 91.7 | 719 |
| 22 | 200L | 3 x 380-420 D/660 Y | 44.5 - 40.2 / 25.6 | 0.82 | 92.2 | 722 |
| 30 | 225M | 3 x 380-420 D/660 Y | 58.8 - 53.2 / 33.8 | 0.84 | 92.9 | 600 |
| 37 | 250M | 3 x 380-420 D/660 Y | 70.9 - 64.1 / 40.8 | 0.85 | 93.3 | 728 |
| 45 | 280S | 3 x 380-420 D/660 Y | 89.5 - 81 / 51.5 | 0.82 | 93.7 | 690 |
| 55 | 280M | 3 x 380-420 D/660 Y | 107 - 96.8 / 61.6 | 0.83 | 94.1 | 689 |
| 75 | 315S | 3 x 380-420 D/660 Y | 141-127 / 81.1 | 0.86 | 94.6 | 695 |
| 90 | 315M | 3 x 380-420 D/660 Y | 169-152 / 97 | 0.86 | 94.9 | 750 |
| 110 | 315L | 3 x 380-420 D/660 Y | 206-186 / 118 | 0.86 | 95.1 | 718 |
| 132 | 315L | 3 x 380-420 D/660 Y | 246-222 / 142 | 0.86 | 95.4 | 705 |
| 160 | 355M | 3 x 380-420 D/660 Y | 297-269 / 171 | 0.86 | 95.6 | 707 |
| 185 | 355M | 3 x 380-420 D/660 Y | 341-309 / 196 | 0.86 | 95.8 | 730 |
| 200 | 355M | 3 x 380-420 D/660 Y | 369-334 / 212 | 0.86 | 95.8 | 686 |
| 220 | 355M | 3 x 380-420 D/660 Y | 403-365 / 232 | 0.87 | 95.8 | 705 |
| 250 | 355L | 3 x 380-420 D/660 Y | 457-413 / 263 | 0.87 | 95.8 | 705 |
| 300 | 355C | 3 x 380-420 D/660 Y | 550-498 / 317 | 0.87 | 95.8 | 720 |

MG or Siemens, 2-pole, IE3

| Motor P2 [kW] | Motor type | Frame size | Standard voltage [V] | $I_{1/1}$ [A] | $\cos \varphi_{1/1}$ | η [%] | $I_{start}/I_{1/1}$ [%] |
|---------------|------------|------------|-------------------------|---------------------------|----------------------|------------|-------------------------|
| 11 | MG | 160MB | 3 x 380-415 D/660-690 Y | 20.8 - 19.8 / 12.0 - 11.8 | 0.88 - 0.84 | 91.2 | 660-780 |
| 15 | MG | 160MD | 3 x 380-415 D/660-690 Y | 28.0 - 26.0 / 16.2 - 15.6 | 0.89 - 0.87 | 91.9 | 660-780 |
| 18.5 | MG | 160LB | 3 x 380-415 D/660-690 Y | 34.0 - 31.0 / 19.6 - 18.8 | 0.90 - 0.89 | 92.4 | 710-850 |
| 22 | MG | 180MB | 3 x 380-415 D/660-690 Y | 39.5 / 22.8 | 0.90 | 92.7 | 830-830 |
| 30 | Siemens | 200L | 3 x 380-420 D/660-725 Y | 56.0 - 51.0 / 32.0 - 29.5 | 0.86 | 93.3 | 660 |
| 37 | Siemens | 200L | 3 x 380-420 D/660-725 Y | 68.0 - 63.0 / 39.0 - 36.0 | 0.87 | 93.7 | 670 |
| 45 | Siemens | 225M | 3 x 380-420 D/660-725 Y | 82.0 - 75.0 / 47.5 - 43.5 | 0.89 | 94.0 | 690 |
| 55 | Siemens | 250M | 3 x 380-420 D/660-725 Y | 99.0 - 92.0 / 57.0 - 53.0 | 0.89 | 94.3 | 670 |
| 75 | Siemens | 280S | 3 x 380-420 D/660-725 Y | 134-126 / 77.0 - 72.0 | 0.89 | 94.7 | 680 |
| 90 | Siemens | 280M | 3 x 380-420 D/660-725 Y | 160-148 / 92.0 - 85.0 | 0.90 | 95.0 | 720 |

MG or Siemens, 4-pole, IE3

| Motor P2 [kW] | Motor type | Frame size | Standard voltage [V] | I _{1/1} [A] | Cos φ _{1/1} | η [%] | I _{start} /I _{1/1} [%] |
|------------------|------------|------------|-------------------------|---------------------------|----------------------|----------|---|
| 1.5 | MG | 90LC | 380-415 D | 3.55 - 3.65 | 0.75 - 0.68 | 85.3 | 730-790 |
| 2.2 | MG | 100LB | 380-415 D | 4.90 | 0.79 - 0.73 | 86.7 | 600-660 |
| 3 | MG | 100LC | 380-415 D | 6.30 | 0.82 - 0.76 | 87.7 | 700-770 |
| 4 | MG | 112MC | 380-415 D | 9.30 | 0.75 - 0.68 | 88.6 | 790-870 |
| 5.5 | MG | 132SB | 3 x 380-415 D/660-690 Y | 11.0 - 11.0 / 6.35 - 6.35 | 0.86 - 0.80 | 89.6 | 700-760 |
| 7.5 | MG | 132MB | 3 x 380-415 D/660-690 Y | 14.9 - 14.2 / 8.60 - 8.40 | 0.86 - 0.82 | 90.4 | 680-780 |
| 11 | MG | 160MB | 3 x 380-415 D/660-690 Y | 21.2 - 20.4 / 12.2 - 12.0 | 0.86 - 0.81 | 91.4 | 710-810 |
| 15 | MG | 160LC | 3 x 380-415 D/660-690 Y | 29.0 - 28.0 / 16.8 - 16.4 | 0.86 - 0.82 | 92.1 | 760-870 |
| 18.5 | Siemens | 180M | 3 x 380-420 D/660-725 Y | 37.0 - 33.5 / 21.6 - 19.6 | 0.82 | 92.6 | 690 |
| 22 | Siemens | 180L | 3 x 380-420 D/660-725 Y | 42.5 - 40.5 / 24.6 - 23.6 | 0.83 | 93.0 | 680 |
| 30 | Siemens | 200L | 3 x 380-420 D/660-725 Y | 57.5 - 54.0 / 33.5 - 31.5 | 0.84 | 93.6 | 690 |
| 37 | Siemens | 225S | 3 x 380-420 D/660-725 Y | 69.0 - 64.0 / 39.5 - 37.0 | 0.86 | 93.9 | 640 |
| 45 | Siemens | 225M | 3 x 380-420 D/660-725 Y | 83.0 - 77.0 / 48.0 - 44.5 | 0.86 | 94.2 | 640 |
| 55 | Siemens | 250M | 3 x 380-420 D/660-725 Y | 100 - 93.0 / 58.0 - 54.0 | 0.87 | 94.6 | 680 |
| 75 | Siemens | 280S | 3 x 380-420 D/660-725 Y | 140-130 / 80.0 - 74.0 | 0.86 | 95.0 | 690 |
| 90 | Siemens | 280M | 3 x 380-420 D/660-725 Y | 166-152 / 95.0 - 88.0 | 0.87 | 95.2 | 720 |
| 110 | Siemens | 315S | 3 x 380-420 D/660-725 Y | 200-186 / 116-108 | 0.87 | 95.4 | 680 |
| 132 | Siemens | 315M | 3 x 380-420 D/660-725 Y | 240-220 / 140-128 | 0.87 | 95.6 | 730 |
| 160 | Siemens | 315L | 3 x 380-420 D/660-725 Y | 285-265 / 166-154 | 0.87 | 95.8 | 730 |
| 200 | Siemens | 315L | 3 x 380-420 D/660-725 Y | 355-330 / 206-190 | 0.88 | 96.0 | 740 |
| 250 | Siemens | 315L | 3 x 380-420 D/660-725 Y | 455-420 / 260-240 | 0.87 | 96.0 | 770 |
| 315 | Siemens | 315L | 3 x 380-420 D/660-725 Y | 570-550 / 330-320 | 0.86 | 96.0 | 790 |
| 355 | Siemens | 315L | 3 x 380-420 D/660-725 Y | 650-610 / 375-355 | 0.85 | 96.1 | 650 |
| 400 | Siemens | 355 | 3 x 380-420 D/660-725 Y | 690-690 / 400-400 | 0.87 | 96.4 | 650 |
| 500 | Siemens | 355 | 3 x 380-420 D/660-725 Y | 850-850 / 490-490 | 0.88 | 96.7 | 650 |
| 560 | Siemens | 400 | 3 x 380-420 D/660-725 Y | 950-950 / 550-550 | 0.88 | 96.7 | 650 |
| 630 | Siemens | 400 | 3 x 380-420 D/660-725 Y | 1060-1060 / 610-620 | 0.88 | 96.9 | 680 |

MG or Siemens, 6-pole, IE3

| Motor P2 [kW] | Motor type | Frame size | Standard voltage [V] | I _{1/1} [A] | Cos φ _{1/1} | η [%] | I _{start} /I _{1/1} [%] |
|------------------|------------|------------|-------------------------|---------------------------|----------------------|----------|---|
| 11 | Siemens | 160L | 3 x 380-420 D/660-725 Y | 23.2 - 21.0 / 13.4 - 12.2 | 0.80 | 90.3 | 660 |
| 15 | Siemens | 180L | 3 x 380-420 D/660-725 Y | 31.0 - 28.0 / 17.8 - 16.6 | 0.80 | 91.2 | 590 |
| 18.5 | Siemens | 200L | 3 x 380-420 D/660-725 Y | 38.0 - 36.5 / 22.0 - 21.0 | 0.79 | 91.7 | 560 |
| 22 | Siemens | 200L | 3 x 380-420 D/660-725 Y | 45.0 - 42.5 / 26.0 - 24.6 | 0.79 | 92.2 | 560 |
| 30 | Siemens | 225M | 3 x 380-420 D/660-725 Y | 58.0 - 55.0 / 33.5 - 32.0 | 0.83 | 92.9 | 660 |
| 37 | Siemens | 250M | 3 x 380-420 D/660-725 Y | 70.0 - 65.0 / 40.5 - 37.5 | 0.85 | 93.3 | 700 |
| 45 | Siemens | 280S | 3 x 380-420 D/660-725 Y | 86.0 - 79.0 / 49.5 - 45.5 | 0.85 | 93.7 | 680 |
| 55 | Siemens | 280M | 3 x 380-420 D/660-725 Y | 106 - 97.0 / 61.0 - 56.0 | 0.85 | 94.1 | 720 |
| 75 | Siemens | 315S | 3 x 380-420 D/660-725 Y | 142-134 / 81.0 - 77.0 | 0.84 | 94.6 | 730 |
| 90 | Siemens | 315M | 3 x 380-420 D/660-725 Y | 168-156 / 97.0 - 90.0 | 0.85 | 94.9 | 670 |
| 110 | Siemens | 315L | 3 x 380-420 D/660-725 Y | 206-194 / 118-112 | 0.84 | 95.1 | 720 |
| 132 | Siemens | 315L | 3 x 380-420 D/660-725 Y | 250-236 / 144-136 | 0.84 | 95.4 | 720 |
| 160 | Siemens | 315L | 3 x 380-420 D/660-725 Y | 300-290 / 174-168 | 0.83 | 95.6 | 770 |
| 200 | Siemens | 315L | 3 x 380-420 D/660-725 Y | 365-345 / 210-200 | 0.83 | 95.8 | 770 |
| 250 | Siemens | 315L | 3 x 380-420 D/660-725 Y | 450-440 / 260-250 | 0.84 | 95.8 | 620 |
| 315 | Siemens | 315L | 3 x 380-420 D/660-725 Y | 590-540 / 340-310 | 0.85 | 95.9 | 650 |

Siemens, 2-pole, IE4

| Motor P2 [kW] | Motor type | Frame size | Standard voltage [V] | $I_{1/1}$ [A] | $\cos \varphi_{1/1}$ | η [%] | $I_{start}/I_{1/1}$ [%] |
|------------------|------------|------------|-------------------------|------------------|----------------------|---------------|----------------------------|
| 75 | Siemens | 280S | 3 x 400 D/690 Y | 127.0 / 74.0 | 0.89 | 95.6 | 840 |
| 90 | Siemens | 280M | 3 x 400 D/690 Y | 152.0 / 88.0 | 0.89 | 95.8 | 840 |
| 110 | Siemens | 315S | 3 x 400 D/690 Y | 186.0 / 108.0 | 0.89 | 96.0 | 880 |
| 132 | Siemens | 315M | 3 x 400 D/690 Y | 220.0 / 128.0 | 0.90 | 96.2 | 1050 |
| 160 | Siemens | 315L | 3 x 400 D/690 Y | 266.0 / 154.0 | 0.90 | 96.3 | 1000 |
| 200 | Siemens | 315L | 3 x 400 D/690 Y | 325.0 / 189.0 | 0.92 | 96.5 | 1000 |
| 75 | Siemens | 280S | 3 x 400 D/690 Y | 126.0 / 73.0 | 0.9 | 95.6 | 850 |
| 90 | Siemens | 280M | 3 x 400 D/690 Y | 151.0 / 87.0 | 0.9 | 95.8 | 850 |
| 110 | Siemens | 315S | 3 x 400 D/690 Y | 184.0 / 107.0 | 0.9 | 96 | 910 |
| 132 | Siemens | 315M | 3 x 400 D/690 Y | 220.0 / 128.0 | 0.9 | 96.2 | 980 |
| 160 | Siemens | 315L | 3 x 400 D/690 Y | 266.0 / 154.0 | 0.9 | 96.3 | 960 |
| 200 | Siemens | 315L | 3 x 400 D/690 Y | 329.0 / 191.0 | 0.91 | 96.5 | 970 |
| 75 | Siemens | 280S | 3 x 400 D/690 Y | 126.0 / 73.0 | 0.9 | 95.6 | 850 |
| 90 | Siemens | 280M | 3 x 400 D/690 Y | 151.0 / 87.0 | 0.9 | 95.8 | 850 |
| 110 | Siemens | 315S | 3 x 400 D/690 Y | 184.0 / 107.0 | 0.9 | 96 | 910 |
| 132 | Siemens | 315M | 3 x 400 D/690 Y | 220.0 / 128.0 | 0.9 | 96.2 | 980 |
| 160 | Siemens | 315L | 3 x 400 D/690 Y | 266.0 / 154.0 | 0.9 | 96.3 | 960 |
| 200 | Siemens | 315L | 3 x 400 D/690 Y | 329.0 / 191.0 | 0.91 | 96.5 | 970 |
| 75 | Siemens | 280S | 3 x 400 D/690 Y | 127.0 / 74.0 | 0.89 | 95.6 | 830 |
| 110 | Siemens | 315S | 3 x 400 D/690 Y | 183.0 / 106.0 | 0.9 | 96.3 | 860 |
| 132 | Siemens | 315M | 3 x 400 D/690 Y | 220.0 / 127.0 | 0.9 | 96.4 | 870 |
| 160 | Siemens | 315L | 3 x 400 D/690 Y | 265.0 / 154.0 | 0.9 | 96.6 | 880 |
| 200 | Siemens | 315L | 3 x 400 D/690 Y | 332.0 / 192.0 | 0.9 | 96.7 | 890 |

Siemens, 4-pole, IE4

| Motor P2 [kW] | Motor type | Frame size | Standard voltage [V] | $I_{1/1}$ [A] | $\cos \varphi_{1/1}$ | η [%] | $I_{start}/I_{1/1}$ [%] |
|------------------|------------|------------|-------------------------|------------------|----------------------|---------------|----------------------------|
| 75 | Siemens | 280S | 3 x 400 D/690 Y | 132.0 / 77.0 | 0.85 | 96.2 | 920 |
| 90 | Siemens | 280M | 3 x 400 D/690 Y | 157.0 / 91.0 | 0.86 | 96.1 | 900 |
| 110 | Siemens | 315S | 3 x 400 D/690 Y | 192.0 / 111.0 | 0.86 | 96.3 | 860 |
| 132 | Siemens | 315M | 3 x 400 D/690 Y | 227.0 / 132.0 | 0.87 | 96.5 | 870 |
| 160 | Siemens | 315L | 3 x 400 D/690 Y | 278.0 / 161.0 | 0.86 | 96.6 | 900 |
| 200 | Siemens | 315L | 3 x 400 D/690 Y | 347.0 / 201.0 | 0.86 | 96.7 | 920 |
| 75 | Siemens | 280S | 3 x 400 D/690 Y | 130.0 / 75.0 | 0.87 | 96 | 850 |
| 90 | Siemens | 280M | 3 x 400 D/690 Y | 154.0 / 89.0 | 0.88 | 96.1 | 850 |
| 110 | Siemens | 315S | 3 x 400 D/690 Y | 192.0 / 111.0 | 0.86 | 96.3 | 860 |
| 132 | Siemens | 315M | 3 x 400 D/690 Y | 233.0 / 135.0 | 0.85 | 96.4 | 820 |
| 160 | Siemens | 315L | 3 x 400 D/690 Y | 281.0 / 163.0 | 0.85 | 96.6 | 790 |
| 200 | Siemens | 315L | 3 x 400 D/690 Y | 351.0 / 204.0 | 0.85 | 96.7 | 780 |
| 75 | Siemens | 280S | 3 x 400 D/690 Y | 130.0 / 75.0 | 0.87 | 96 | 850 |
| 90 | Siemens | 280M | 3 x 400 D/690 Y | 154.0 / 89.0 | 0.88 | 96.1 | 850 |
| 110 | Siemens | 315S | 3 x 400 D/690 Y | 192.0 / 111.0 | 0.86 | 96.3 | 860 |
| 132 | Siemens | 315M | 3 x 400 D/690 Y | 233.0 / 135.0 | 0.85 | 96.4 | 820 |
| 160 | Siemens | 315L | 3 x 400 D/690 Y | 281.0 / 163.0 | 0.85 | 96.6 | 790 |
| 200 | Siemens | 315L | 3 x 400 D/690 Y | 351.0 / 204.0 | 0.85 | 96.7 | 780 |
| 90 | Siemens | 280M | 3 x 400 D/690 Y | 154.0 / 89.0 | 0.88 | 96.1 | 850 |
| 90 | Siemens | 280M | 3 x 400 D/690 Y | 150.0 / 87.0 | 0.9 | 96.1 | 890 |
| 132 | Siemens | 315M | 3 x 400 D/690 Y | 220.0 / 127.0 | 0.9 | 96.4 | 870 |
| 200 | Siemens | 315L | 3 x 400 D/690 Y | 332.0 / 192.0 | 0.9 | 96.7 | 890 |

Siemens, 6-pole, IE4

| Motor P2 [kW] | Motor type | Frame size | Standard voltage [V] | I _{1/1} [A] | Cos φ _{1/1} | η [%] | I _{start} /I _{1/1} [%] |
|------------------|------------|------------|-------------------------|-------------------------|----------------------|----------|---|
| 75 | Siemens | 280S | 3 x 400 D/690 Y | 135.0 / 78.0 | 0.84 | 95.4 | 820 |
| 90 | Siemens | 280M | 3 x 400 D/690 Y | 160.0 / 93.0 | 0.85 | 95.6 | 820 |
| 110 | Siemens | 315S | 3 x 400 D/690 Y | 193.0 / 112.0 | 0.86 | 95.8 | 830 |
| 132 | Siemens | 315M | 3 x 400 D/690 Y | 228.0 / 132.0 | 0.87 | 96 | 840 |
| 160 | Siemens | 315L | 3 x 400 D/690 Y | 293.0 / 170.0 | 0.82 | 96.2 | 800 |
| 75 | Siemens | 280S | 3 x 400 D/690 Y | 135.0 / 78.0 | 0.84 | 95.4 | 820 |
| 90 | Siemens | 280M | 3 x 400 D/690 Y | 160.0 / 93.0 | 0.85 | 95.6 | 820 |
| 110 | Siemens | 315S | 3 x 400 D/690 Y | 193.0 / 112.0 | 0.86 | 95.8 | 830 |
| 132 | Siemens | 315M | 3 x 400 D/690 Y | 228.0 / 132.0 | 0.87 | 96 | 840 |
| 160 | Siemens | 315L | 3 x 400 D/690 Y | 293.0 / 170.0 | 0.82 | 96.2 | 800 |
| 200 | Siemens | 315L | 3 x 400 D/690 Y | 366.0 / 212.0 | 0.82 | 96.3 | 750 |

MMG-G, 2-pole, IE4

| Motor P2 [kW] | Motor type | Frame size | Standard voltage [V] | I _{1/1} [A] | Cos φ _{1/1} | η [%] | I _{start} /I _{1/1} [%] |
|------------------|------------|------------|-------------------------|-------------------------|----------------------|----------|---|
| 75 | MMG-G | 280SA | 3 x 230 D/400 Y | 219.0 / 102.0 | 0.90 | 95.6 | 785 |
| 90 | MMG-G | 280MA | 3 x 230 D/400 Y | 262.0 / 122.0 | 0.90 | 95.8 | 765 |
| 75 | MMG-G | 280SA | 3 x 400 D/690 Y | 126.0 / 59.0 | 0.90 | 95.6 | 785 |
| 90 | MMG-G | 280MA | 3 x 400 D/690 Y | 151.0 / 71.0 | 0.90 | 95.8 | 760 |
| 110 | MMG-G | 315SA | 3 x 400 D/690 Y | 184.0 / 86.0 | 0.90 | 96 | 780 |
| 132 | MMG-G | 315MA | 3 x 400 D/690 Y | 218.0 / 105.0 | 0.91 | 96.2 | 800 |
| 160 | MMG-G | 315LA | 3 x 400 D/690 Y | 264.0 / 127.0 | 0.91 | 96.3 | 810 |
| 185 | MMG-G | 315LA | 3 x 400 D/690 Y | 304.0 / 146.0 | 0.91 | 96.4 | 850 |
| 200 | MMG-G | 315LA | 3 x 400 D/690 Y | 329.0 / 158.0 | 0.91 | 96.5 | 850 |
| 75 | MMG-G | 280SA | 3 x 230 D/400 Y | 219.0 / 101.0 | 0.90 | 95.6 | 785 |
| 90 | MMG-G | 280MA | 3 x 230 D/400 Y | 262.0 / 122.0 | 0.90 | 95.8 | 765 |
| 75 | MMG-G | 280SA | 3 x 400 D/690 Y | 126.0 / 59.0 | 0.90 | 95.6 | 785 |
| 90 | MMG-G | 280MA | 3 x 400 D/690 Y | 151.0 / 71.0 | 0.90 | 95.8 | 760 |
| 110 | MMG-G | 315SA | 3 x 400 D/690 Y | 184.0 / 86.0 | 0.90 | 96 | 780 |
| 132 | MMG-G | 315MA | 3 x 400 D/690 Y | 218.0 / 104.0 | 0.91 | 96.2 | 800 |
| 160 | MMG-G | 315LA | 3 x 400 D/690 Y | 264.0 / 127.0 | 0.91 | 96.3 | 810 |
| 185 | MMG-G | 315LA | 3 x 400 D/690 Y | 304.0 / 146.0 | 0.91 | 96.4 | 850 |
| 200 | MMG-G | 315LA | 3 x 400 D/690 Y | 329.0 / 158.0 | 0.91 | 96.5 | 850 |
| 75 | MMG-G | 280SA | 3 x 230 D/400 Y | 219.0 / 102.0 | 0.90 | 95.6 | 785 |
| 90 | MMG-G | 280MA | 3 x 230 D/400 Y | 262.0 / 122.0 | 0.90 | 95.8 | 765 |
| 75 | MMG-G | 280SA | 3 x 400 D/690 Y | 126.0 / 59.0 | 0.90 | 95.6 | 785 |
| 90 | MMG-G | 280MA | 3 x 400 D/690 Y | 151.0 / 71.0 | 0.90 | 95.8 | 760 |
| 110 | MMG-G | 315SA | 3 x 400 D/690 Y | 184.0 / 86.0 | 0.90 | 96 | 780 |
| 132 | MMG-G | 315MA | 3 x 400 D/690 Y | 218.0 / 104.0 | 0.91 | 96.2 | 800 |
| 160 | MMG-G | 315LA | 3 x 400 D/690 Y | 264.0 / 127.0 | 0.91 | 96.3 | 810 |
| 185 | MMG-G | 315LA | 3 x 400 D/690 Y | 304.0 / 146.0 | 0.91 | 96.4 | 850 |
| 200 | MMG-G | 315LA | 3 x 400 D/690 Y | 329.0 / 158.0 | 0.91 | 96.5 | 850 |

MMG-G, 4-pole, IE4

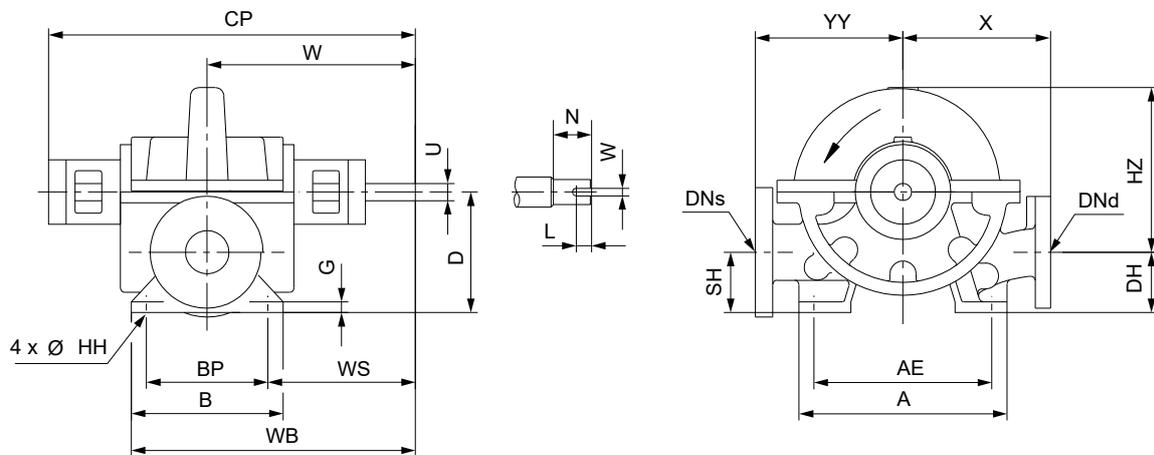
| Motor P2 [kW] | Motor type | Frame size | Standard voltage [V] | $I_{1/1}$ [A] | $\cos \varphi_{1/1}$ | η [%] | $I_{start}/I_{1/1}$ [%] |
|------------------|------------|------------|-------------------------|------------------|----------------------|---------------|----------------------------|
| 75 | MMG-G | 280S | 3 x 230 D/400 Y | 228.0 / 97.0 | 0.86 | 96 | 710 |
| 90 | MMG-G | 280M | 3 x 230 D/400 Y | 270.0 / 118.0 | 0.87 | 96.1 | 710 |
| 75 | MMG-G | 280S | 3 x 400 D/690 Y | 130.0 / 57.0 | 0.87 | 96 | 700 |
| 90 | MMG-G | 280M | 3 x 400 D/690 Y | 155.0 / 68.0 | 0.87 | 96.1 | 700 |
| 110 | MMG-G | 315S | 3 x 400 D/690 Y | 187.0 / 84.0 | 0.88 | 96.3 | 750 |
| 132 | MMG-G | 315M | 3 x 400 D/690 Y | 227.0 / 100.0 | 0.87 | 96.4 | 750 |
| 160 | MMG-G | 315L | 3 x 400 D/690 Y | 275.0 / 121.0 | 0.87 | 96.6 | 750 |
| 185 | MMG-G | 315L | 3 x 400 D/690 Y | 314.0 / 141.0 | 0.88 | 96.7 | 750 |
| 200 | MMG-G | 315L | 3 x 400 D/690 Y | 339.0 / 152.0 | 0.88 | 96.7 | 750 |
| 75 | MMG-G | 280S | 3 x 230 D/400 Y | 228.0 / 97.0 | 0.86 | 96 | 710 |
| 90 | MMG-G | 280M | 3 x 230 D/400 Y | 270.0 / 118.0 | 0.87 | 96.1 | 710 |
| 75 | MMG-G | 280S | 3 x 400 D/690 Y | 130.0 / 57.0 | 0.87 | 96 | 700 |
| 90 | MMG-G | 280M | 3 x 400 D/690 Y | 155.0 / 68.0 | 0.87 | 96.1 | 700 |
| 110 | MMG-G | 315S | 3 x 400 D/690 Y | 187.0 / 84.0 | 0.88 | 96.3 | 750 |
| 132 | MMG-G | 315M | 3 x 400 D/690 Y | 227.0 / 100.0 | 0.87 | 96.4 | 750 |
| 160 | MMG-G | 315L | 3 x 400 D/690 Y | 274.0 / 121.0 | 0.87 | 96.6 | 750 |
| 185 | MMG-G | 315L | 3 x 400 D/690 Y | 314.0 / 141.0 | 0.88 | 96.7 | 750 |
| 200 | MMG-G | 315L | 3 x 400 D/690 Y | 339.0 / 152.0 | 0.88 | 96.7 | 750 |
| 75 | MMG-G | 280S | 3 x 230 D/400 Y | 228.0 / 97.0 | 0.86 | 96.2 | 710 |
| 90 | MMG-G | 280M | 3 x 230 D/400 Y | 270.0 / 117.0 | 0.87 | 96.2 | 710 |
| 75 | MMG-G | 280S | 3 x 400 D/690 Y | 129.0 / 57.0 | 0.87 | 96.2 | 700 |
| 90 | MMG-G | 280M | 3 x 400 D/690 Y | 155.0 / 68.0 | 0.87 | 96.2 | 700 |
| 110 | MMG-G | 315S | 3 x 400 D/690 Y | 188.0 / 84.0 | 0.88 | 96.2 | 750 |
| 132 | MMG-G | 315M | 3 x 400 D/690 Y | 227.0 / 100.0 | 0.87 | 96.4 | 750 |
| 160 | MMG-G | 315L | 3 x 400 D/690 Y | 275.0 / 121.0 | 0.87 | 96.5 | 750 |
| 185 | MMG-G | 315L | 3 x 400 D/690 Y | 314.0 / 141.0 | 0.88 | 96.5 | 750 |
| 200 | MMG-G | 315L | 3 x 400 D/690 Y | 339.0 / 152.0 | 0.88 | 96.7 | 750 |

MMG-G, 6-pole, IE4

| Motor P2 [kW] | Motor type | Frame size | Standard voltage [V] | $I_{1/1}$ [A] | $\cos \varphi_{1/1}$ | η [%] | $I_{start}/I_{1/1}$ [%] |
|------------------|------------|------------|-------------------------|------------------|----------------------|---------------|----------------------------|
| 75 | MMG-G | 315S | 3 x 400 D/690 Y | 132.0 / 57.0 | 0,86 | 95,4 | 710 |
| 90 | MMG-G | 315M | 3 x 400 D/690 Y | 158.0 / 68.0 | 0,86 | 95,6 | 710 |
| 110 | MMG-G | 315L | 3 x 400 D/690 Y | 193.0 / 83.0 | 0,86 | 95,8 | 720 |
| 132 | MMG-G | 315L | 3 x 400 D/690 Y | 230.0 / 99.0 | 0,86 | 96 | 720 |
| 160 | MMG-G | 355M | 3 x 400 D/690 Y | 279.0 / 120.0 | 0,86 | 96,2 | 680 |
| 185 | MMG-G | 355M | 3 x 400 D/690 Y | 322.0 / 138.0 | 0,86 | 96,3 | 680 |
| 200 | MMG-G | 355M | 3 x 400 D/690 Y | 349.0 / 149.0 | 0,86 | 96,3 | 680 |
| 75 | MMG-G | 315S | 3 x 400 D/690 Y | 132.0 / 57.0 | 0,86 | 95,4 | 710 |
| 90 | MMG-G | 315M | 3 x 400 D/690 Y | 158.0 / 68.0 | 0,86 | 95,6 | 710 |
| 110 | MMG-G | 315L | 3 x 400 D/690 Y | 193.0 / 83.0 | 0,86 | 95,8 | 720 |
| 132 | MMG-G | 315L | 3 x 400 D/690 Y | 231.0 / 99.0 | 0,86 | 96 | 720 |
| 160 | MMG-G | 355M | 3 x 400 D/690 Y | 279.0 / 120.0 | 0,86 | 96,2 | 680 |
| 185 | MMG-G | 355M | 3 x 400 D/690 Y | 322.0 / 138.0 | 0,86 | 96,3 | 680 |
| 200 | MMG-G | 355M | 3 x 400 D/690 Y | 348.0 / 149.0 | 0,86 | 96,3 | 680 |
| 75 | MMG-G | 315S | 3 x 400 D/690 Y | 132.0 / 57.0 | 0,86 | 95,4 | 710 |
| 90 | MMG-G | 280M | 3 x 400 D/690 Y | 158.0 / 68.0 | 0,86 | 95,6 | 710 |
| 110 | MMG-G | 315S | 3 x 400 D/690 Y | 193.0 / 83.0 | 0,86 | 95,8 | 710 |
| 132 | MMG-G | 315M | 3 x 400 D/690 Y | 231.0 / 99.0 | 0,86 | 96 | 710 |

14. Bare shaft pump

Dimensional sketches



TM041827

DNs: Inlet flange, DNd: Outlet flange

Dimensions

All dimensions are in mm, except for those which have necessary inch tolerances (1 inch = 25.4 mm).

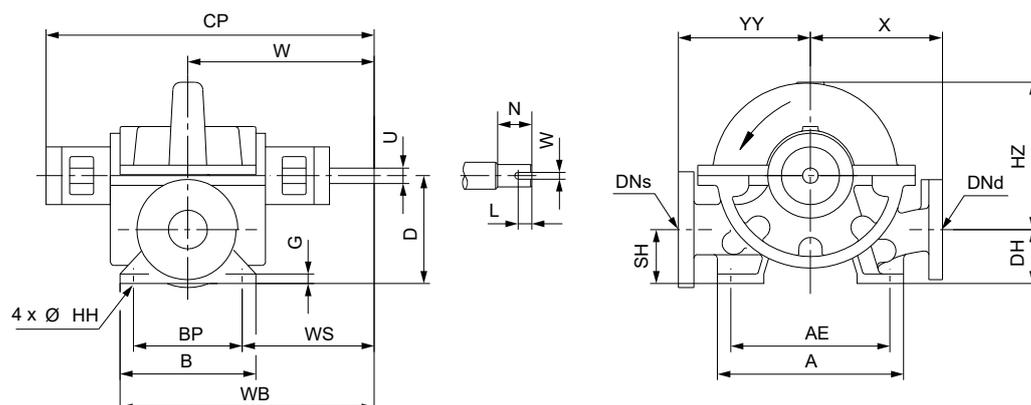
For actual pump flange dimensions, see sections standard pump flange dimensions and optional pump flange dimensions. For counterflange dimensions, see section counterflange dimensions.

| Pump size | DNs | DNd | N | | SH | U (without sleeve) | | U (with sleeve) | | W | WB | WS | Net weight [kg] |
|------------------------------|-----|-----|--------|--------|------|--------------------|-------|-----------------|-------|-------|--------|-----|-----------------|
| | | | Sealed | Packed | | [inch] | [mm] | [inch] | [mm] | | | | |
| LS 65-50-241 | 65 | 50 | 95 | 65 | 88.9 | 0.945 | 24 | 1.00 | 25.40 | 305 | 416 | 216 | 73 |
| LS 65-50-330 | 65 | 50 | 95 | 65 | 88.9 | 0.945 | 24 | 1.00 | 25.40 | 305 | 416 | 216 | 95 |
| LS 100-80-241 | 100 | 80 | 95 | 65 | 102 | 0.945 | 24 | 1.00 | 25.40 | 305 | 416 | 216 | 80 |
| LS 100-80-356 | 100 | 80 | 100 | 75 | 127 | 1.339 | 34 | 1.50 | 38.10 | 368 | 508 | 251 | 177 |
| LS 125-100-279 | 125 | 100 | 100 | 63 | 124 | 1.339 | 34 | 1.50 | 38.10 | 368 | 508 | 251 | 164 |
| LS 125-100-305 | 125 | 100 | 100 | 63 | 124 | 1.339 | 34 | 1.50 | 38.10 | 368 | 508 | 251 | 164 |
| LS 125-100-381 | 125 | 100 | 100 | 63 | 159 | 1.339 | 34 | 1.50 | 38.10 | 368 | 543 | 216 | 255 |
| LS 125-100-388 | 125 | 100 | 100 | 63 | 159 | 1.50 | 38.10 | 1.50 | 38.10 | 368 | 543 | 216 | 255 |
| LS 150-125-305 | 150 | 125 | 63 | 63 | 165 | 1.339 | 34 | 1.50 | 38.10 | 419 | 572 | 289 | 268 |
| LS 150-125-381 | 150 | 125 | 63 | 63 | 165 | 1.339 | 34 | 1.50 | 38.10 | 432 | 584 | 302 | 318 |
| LS 200-150-305 | 200 | 150 | 63 | 63 | 165 | 1.339 | 34 | 1.50 | 38.10 | 432 | 584 | 302 | 411 |
| LS 200-150-381 | 200 | 150 | 87 | 87 | 184 | 1.75 | 44.45 | 1.75 | 44.45 | 508 | 737 | 298 | 455 |
| LS 200-150-483 ⁷⁾ | 200 | 150 | 85 | 90 | 171 | 1.75 | 44.45 | 1.75 | 44.45 | 489 | 667 | 337 | 534 |
| LS 200-150-483 ⁸⁾ | 200 | 150 | 85 | 85 | 171 | 2.00 | 50.80 | 2.00 | 50.80 | 489 | 667 | 337 | 534 |
| LS 200-150-508 | 200 | 150 | 98 | 98 | 171 | 2.13 | 53.98 | 2.13 | 53.98 | 546 | 724 | 394 | 545 |
| LS 250-200-305 | 250 | 200 | 87 | 87 | 171 | 1.75 | 44.45 | 1.75 | 44.45 | 508 | 705 | 330 | 511 |
| LS 250-200-381 | 250 | 200 | 87 | 87 | 178 | 1.75 | 44.45 | 1.75 | 44.45 | 518 | 765 | 295 | 568 |
| LS 300-200-489 | 300 | 200 | 135 | 147 | 198 | 2.50 | 63.50 | 2.50 | 63.50 | 723 | 994 | 519 | 727 |
| LS 300-250-305 | 300 | 250 | 87 | 87 | 203 | 1.75 | 44.45 | 1.75 | 44.45 | 530 | 778 | 308 | 636 |
| LS 300-250-381 | 300 | 250 | 145 | 149 | 254 | 2.25 | 57.15 | 2.25 | 57.15 | 600 | 778 | 448 | 991 |
| LS 350-250-498 | 350 | 250 | 165 | 205 | 246 | 3.13 | 79.38 | 3.13 | 79.38 | 797 | 1049 | 594 | 1436 |
| LS 350-250-630 | 350 | 250 | 160 | 219 | 305 | 3.13 | 79.38 | 3.13 | 79.38 | 799 | 1049 | 594 | 1905 |
| LS 350-300-508 | 350 | 300 | 112 | 121 | 313 | 2.50 | 63.50 | 2.50 | 63.50 | 749 | 994 | 546 | 1318 |
| LS 450-350-397 | 450 | 350 | 105 | 105 | 285 | 2.50 | 63.50 | 2.50 | 63.50 | 773.5 | 1102.5 | 486 | 1460 |

⁷⁾ For 55-90 kW, 4-pole and 15-45 kW, 6-pole.

⁸⁾ For values above 90 kW, 4-pole.

Dimensional sketches



TM041827

DNs: Inlet flange, DNd: Outlet flange

Dimensions

All dimensions are in mm, except for those which have necessary inch tolerances (1 inch = 25.4 mm).

For actual pump flange dimensions, see sections standard pump flange dimensions and optional pump flange dimensions.
For counterflange dimensions, see section counterflange dimensions.

| Pump size | DNs | DNd | A | AE | B | BP | X | YY | CP | | D | DH | G | ØHH | HZ | Key (WxL) | | | |
|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|--------|--------|-----|-----|----|-----|-----|-------------|----------------|------|--|
| | | | | | | | | | Sealed | Packed | | | | | | [inch] | | [mm] | |
| | | | | | | | | | | | | | | | | | | | |
| LS 65-50-241 | 65 | 50 | 305 | 260 | 222 | 178 | 216 | 216 | 510 | 545 | 178 | 89 | 16 | 19 | 270 | 0.31 x 2.17 | 8 x 55 | | |
| LS 65-50-330 | 65 | 50 | 305 | 260 | 222 | 178 | 254 | 254 | 510 | 545 | 216 | 89 | 16 | 19 | 355 | 0.31 x 2.17 | 8 x 55 | | |
| LS 100-80-241 | 100 | 80 | 305 | 260 | 222 | 178 | 279 | 279 | 510 | 545 | 203 | 102 | 19 | 19 | 290 | 0.31 x 2.17 | 8 x 55 | | |
| LS 100-80-356 | 100 | 80 | 305 | 260 | 279 | 235 | 305 | 305 | 644 | 687 | 254 | 127 | 22 | 19 | 380 | 0.39 x 2.2 | 10 x 56 | | |
| LS 125-100-279 | 125 | 100 | 305 | 260 | 283 | 235 | 305 | 305 | 631 | 674 | 257 | 124 | 22 | 19 | 370 | 0.39 x 2.2 | 10 x 56 | | |
| LS 125-100-305 | 125 | 100 | 305 | 260 | 283 | 235 | 305 | 305 | 631 | 674 | 257 | 124 | 22 | 19 | 370 | 0.39 x 2.2 | 10 x 56 | | |
| LS 125-100-381 | 125 | 100 | 305 | 260 | 349 | 305 | 357 | 357 | 631 | 674 | 330 | 159 | 25 | 19 | 470 | 0.39 x 2.2 | 10 x 56 | | |
| LS 125-100-388 | 125 | 100 | 305 | 260 | 349 | 305 | 357 | 357 | 631 | 674 | 330 | 159 | 25 | 19 | 470 | 0.38 x 2.25 | 9.65 x 57.15 | | |
| LS 150-125-305 | 150 | 125 | 305 | 260 | 305 | 260 | 330 | 330 | 775 | 775 | 368 | 165 | 25 | 19 | 475 | 0.39 x 2.2 | 10 x 56 | | |
| LS 150-125-381 | 150 | 125 | 305 | 260 | 305 | 260 | 356 | 381 | 801 | 801 | 410 | 165 | 25 | 19 | 550 | 0.39 x 2.2 | 10 x 56 | | |
| LS 200-150-305 | 200 | 150 | 305 | 260 | 305 | 260 | 356 | 406 | 801 | 801 | 406 | 165 | 25 | 19 | 530 | 0.39 x 2.2 | 10 x 56 | | |
| LS 200-150-381 | 200 | 150 | 311 | 260 | 457 | 419 | 381 | 406 | 929 | 929 | 464 | 184 | 29 | 19 | 605 | 0.38 x 2.25 | 9.65 x 57.15 | | |
| LS 200-150-483 ⁹⁾ | 200 | 150 | 305 | 260 | 356 | 305 | 432 | 432 | 888 | 888 | 432 | 171 | 25 | 19 | 615 | 0.38 x 2.25 | 9.65 x 57.15 | | |
| LS 200-150-483 ¹⁰⁾ | 200 | 150 | 305 | 260 | 356 | 305 | 432 | 432 | 899 | 899 | 432 | 171 | 25 | 19 | 615 | 0.38 x 3.00 | 9.65 x 76.20 | | |
| LS 200-150-508 | 200 | 150 | 318 | 260 | 356 | 305 | 432 | 483 | 995 | 995 | 451 | 171 | 25 | 19 | 660 | 0.50 x 3.00 | 12.70 x 76.20 | | |
| LS 250-200-305 | 250 | 200 | 305 | 260 | 394 | 356 | 406 | 432 | 929 | 929 | 438 | 171 | 29 | 19 | 580 | 0.38 x 2.25 | 9.65 x 57.15 | | |
| LS 250-200-381 | 250 | 200 | 324 | 260 | 495 | 445 | 483 | 483 | 949 | 949 | 483 | 178 | 29 | 19 | 655 | 0.38 x 2.25 | 9.65 x 57.15 | | |
| LS 300-200-489 | 300 | 200 | 648 | 502 | 489 | 406 | 414 | 559 | 1306 | 1306 | 529 | 198 | 35 | 29 | 745 | 0.63 x 3.00 | 16.00 x 76.20 | | |
| LS 300-250-305 | 300 | 250 | 324 | 260 | 495 | 445 | 495 | 495 | 974 | 974 | 503 | 203 | 29 | 19 | 645 | 0.38 x 2.25 | 9.65 x 57.15 | | |
| LS 300-250-381 | 300 | 250 | 457 | 381 | 356 | 305 | 432 | 584 | 1051 | 1051 | 508 | 254 | 29 | 22 | 630 | 0.50 x 2.75 | 12.70 x 69.85 | | |
| LS 350-250-498 | 350 | 250 | 648 | 502 | 489 | 406 | 508 | 660 | 1403 | 1403 | 586 | 246 | 35 | 29 | 785 | 0.75 x 4.75 | 19.05 x 120.65 | | |
| LS 350-250-630 | 350 | 250 | 648 | 502 | 489 | 406 | 610 | 711 | 1377 | 1377 | 635 | 305 | 35 | 29 | 820 | 0.75 x 4.75 | 19.05 x 120.65 | | |
| LS 350-300-508 | 350 | 300 | 648 | 502 | 489 | 406 | 584 | 711 | 1377 | 1377 | 643 | 313 | 35 | 29 | 790 | 0.63 x 3.00 | 16.00 x 76.20 | | |
| LS 450-350-397 | 450 | 350 | 790 | 610 | 655 | 575 | 545 | 625 | 1400 | 1400 | 650 | 285 | 35 | 33 | 730 | 0.63 x 3.00 | 16.00 x 76.20 | | |

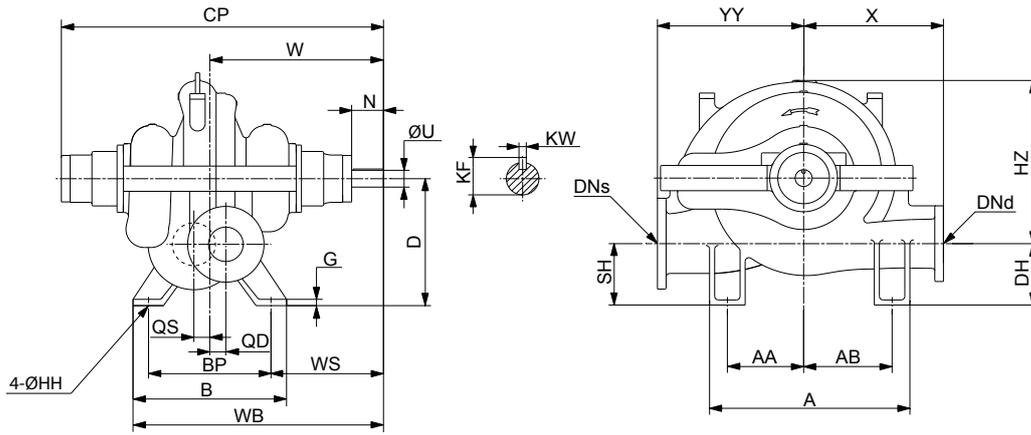
⁹⁾ For 55-90 kW, 4-pole and 15-45 kW, 6-pole.

¹⁰⁾ For values above 90 kW, 4-pole.

Related information

[Counterflange dimensions](#)

Dimensional sketches, LS double stage



TM072171

DNs: Inlet flange, DNd: Outlet flange

Dimensions

All dimensions are in mm, except for those which have necessary inch tolerances (1 inch = 25.4 mm).

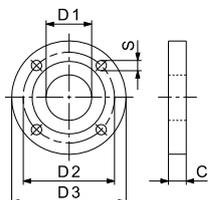
| Pump size | DNs | DNd | HZ | A | AA | AB | D | BP | B | DH/SH | W | WS | ØHH |
|------------------|-----|-----|-----|------|-----|-----|-----|-----|-----|-------|-----|-----|-----|
| LS 125-100-370x2 | 125 | 100 | 565 | 520 | 200 | 200 | 350 | 210 | 260 | 140 | 540 | 399 | 24 |
| LS 150-125-415x2 | 150 | 125 | 632 | 520 | 200 | 200 | 400 | 300 | 360 | 150 | 575 | 385 | 24 |
| LS 200-150-475x2 | 200 | 150 | 685 | 740 | 300 | 300 | 500 | 460 | 580 | 240 | 615 | 385 | 28 |
| LS 250-200-575x2 | 250 | 200 | 850 | 1010 | 500 | 350 | 600 | 620 | 720 | 290 | 800 | 490 | 28 |

| Pump size | YY | X | G | U | | KW | KF | N | QS | QD | CP | WB |
|------------------|-----|-----|----|-------|--------|-------|------|-----|-------|----|------|------|
| | | | | [mm] | [inch] | | | | | | | |
| LS 125-100-370x2 | 350 | 340 | 20 | 44.45 | 1.75 | 9.58 | 48.6 | 95 | 107.5 | 37 | 980 | 778 |
| LS 150-125-415x2 | 370 | 365 | 20 | 44.45 | 1.75 | 9.58 | 48.6 | 110 | 100 | 40 | 1059 | 855 |
| LS 200-150-475x2 | 575 | 550 | 30 | 57.15 | 2.25 | 12.7 | 62.8 | 100 | 65 | 65 | 1142 | 905 |
| LS 250-200-575x2 | 750 | 600 | 30 | 79.38 | 3.125 | 19.05 | 87.7 | 125 | 75 | 75 | 1496 | 1160 |

Standard pump flange dimensions

PN 16

Some pump flanges have tapped holes due to the pump construction.

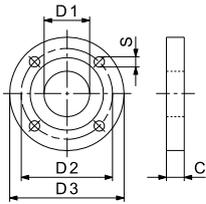


EN 1092-2 (DIN 2501)

PN 16

| Pump type | Flange size | Dimensions [mm] | | | | | S _{FH} | S _{TH} | Number of free holes (FH) | Number of tapped holes (TH) |
|----------------|-------------|--------------------|-----|-----|------|----|-----------------|-----------------|------------------------------|-----------------------------------|
| | | D1 | D2 | D3 | C | | | | | |
| LS 65-50-241 | DNs 65 | 76.2 | 145 | 191 | 25.4 | 19 | - | 4 | - | |
| | DNd 50 | 50.8 | 125 | 165 | 22.2 | 19 | - | 4 | - | |
| LS 65-50-330 | DNs 65 | 76.2 | 145 | 191 | 25.4 | 19 | - | 4 | - | |
| | DNd 50 | 50.8 | 125 | 165 | 22.2 | 19 | - | 4 | - | |
| LS 100-80-241 | DNs 100 | 102 | 180 | 254 | 31.8 | 19 | - | 8 | - | |
| | DNd 80 | 76.2 | 160 | 210 | 28.6 | 19 | - | 8 | - | |
| LS 100-80-356 | DNs 100 | 102 | 180 | 254 | 31.8 | 19 | - | 8 | - | |
| | DNd 80 | 76.2 | 160 | 210 | 28.6 | 19 | - | 8 | - | |
| LS 125-100-279 | DNs 125 | 127 | 210 | 279 | 34.9 | 19 | - | 8 | - | |
| | DNd 100 | 102 | 180 | 254 | 31.8 | 19 | - | 8 | - | |
| LS 125-100-305 | DNs 125 | 127 | 210 | 279 | 34.9 | 19 | - | 8 | - | |
| | DNd 100 | 102 | 180 | 254 | 31.8 | 19 | - | 8 | - | |
| LS 125-100-381 | DNs 125 | 127 | 210 | 279 | 34.9 | 19 | - | 8 | - | |
| | DNd 100 | 102 | 180 | 254 | 31.8 | 19 | - | 8 | - | |
| LS 125-100-388 | DNs 125 | 127 | 210 | 279 | 34.9 | 19 | - | 8 | - | |
| | DNd 100 | 102 | 180 | 254 | 31.8 | 19 | - | 8 | - | |
| LS 150-125-305 | DNs 150 | 152 | 240 | 318 | 36.5 | 23 | M20 | 6 | 2 | |
| | DNd 125 | 127 | 210 | 279 | 34.9 | 19 | - | 8 | - | |
| LS 150-125-381 | DNs 150 | 152 | 240 | 318 | 36.5 | 23 | - | 8 | - | |
| | DNd 125 | 127 | 210 | 279 | 34.9 | 19 | - | 8 | - | |
| LS 200-150-305 | DNs 200 | 203 | 295 | 381 | 41.3 | 23 | M20 | 10 | 2 | |
| | DNd 150 | 152 | 240 | 318 | 36.5 | 23 | - | 8 | - | |
| LS 200-150-381 | DNs 200 | 203 | 295 | 381 | 41.3 | 23 | M20 | 8 | 4 | |
| | DNd 150 | 152 | 240 | 318 | 36.5 | 23 | - | 8 | - | |
| LS 200-150-483 | DNs 200 | 203 | 295 | 381 | 41.4 | - | M20 | - | 12 | |
| | DNd 150 | 152 | 240 | 318 | 36.6 | 23 | - | 4 | 4 | |
| LS 200-150-508 | DNs 200 | 203 | 295 | 381 | 41.3 | 23 | M20 | 8 | 4 | |
| | DNd 150 | 152 | 240 | 318 | 36.5 | 23 | - | 8 | - | |
| LS 250-200-305 | DNs 250 | 254 | 355 | 445 | 47.6 | - | M24 | - | 12 | |
| | DNd 200 | 203 | 295 | 381 | 41.3 | 23 | M20 | 8 | 4 | |
| LS 250-200-381 | DNs 250 | 254 | 355 | 445 | 47.8 | 26 | - | 12 | - | |
| | DNd 200 | 203 | 295 | 381 | 41.4 | 22 | - | 12 | - | |
| LS 300-200-489 | DNs 300 | 305 | 410 | 521 | 50.8 | 28 | - | 12 | - | |
| | DNd 200 | 203 | 295 | 381 | 41.3 | 23 | - | 12 | - | |
| LS 300-250-305 | DNs 300 | 305 | 410 | 521 | 50.8 | 28 | M24 | 10 | 2 | |
| | DNd 250 | 254 | 355 | 445 | 47.6 | 28 | - | 12 | - | |
| LS 300-250-381 | DNs 300 | 305 | 410 | 521 | 50.8 | 28 | M24 | 8 | 4 | |
| | DNd 250 | 254 | 355 | 445 | 47.6 | 28 | - | 12 | - | |
| LS 350-250-498 | DNs 350 | 356 | 470 | 584 | 53.9 | 28 | - | 16 | - | |
| | DNd 250 | 254 | 355 | 445 | 47.6 | 28 | - | 12 | - | |

EN 1092-2 (DIN 2501)
PN 16



Dimensions
[mm]

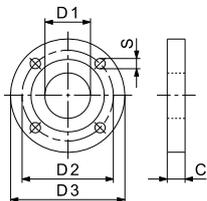
Number of free
holes (FH) Number of
tapped holes
(TH)

| Pump type | Flange size | D1 | D2 | D3 | C | S _{FH} | S _{TH} | Number of free holes (FH) | Number of tapped holes (TH) |
|----------------|-------------|-----|-----|-----|------|-----------------|-----------------|------------------------------|-----------------------------------|
| LS 350-250-630 | DNs 350 | 356 | 470 | 584 | 54.0 | 28 | - | 16 | - |
| | DNd 250 | 254 | 355 | 445 | 47.6 | - | M24 | - | 12 |
| LS 350-300-508 | DNs 350 | 356 | 470 | 584 | 54.0 | 28 | - | 16 | - |
| | DNd 300 | 305 | 410 | 521 | 50.8 | 28 | - | 12 | - |
| LS 450-350-397 | DNs 450 | 450 | 585 | 640 | 40.0 | 31 | M27 | 14 | 6 |
| | DNd 350 | 350 | 470 | 584 | 45.0 | 28 | - | 16 | - |

Optional pump flange dimensions

PN 10

Some pump flanges have tapped holes due to the pump construction.



EN 1092-2 (DIN 2501)

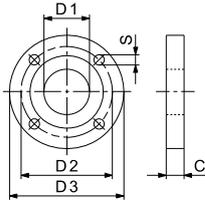
PN 10

Dimensions
[mm]

Number of free
holes (FH) Number of
tapped holes
(TH)

| Pump type | Flange size | D1 | D2 | D3 | C | S _{FH} | S _{TH} | Number of free holes (FH) | Number of tapped holes (TH) |
|----------------|-------------|------|-----|-----|------|-----------------|-----------------|------------------------------|-----------------------------------|
| LS 65-50-241 | DNs 65 | 76.2 | 145 | 191 | 25.4 | 19 | - | 4 | - |
| | DNd 50 | 50.8 | 125 | 165 | 22.2 | 19 | - | 4 | - |
| LS 65-50-330 | DNs 65 | 76.2 | 145 | 191 | 25.4 | 19 | - | 4 | - |
| | DNd 50 | 50.8 | 125 | 165 | 22.2 | 19 | - | 4 | - |
| LS 100-80-241 | DNs 100 | 102 | 180 | 254 | 31.8 | 19 | - | 8 | - |
| | DNd 80 | 76.2 | 160 | 210 | 28.6 | 19 | - | 8 | - |
| LS 100-80-356 | DNs 100 | 102 | 180 | 254 | 31.8 | 19 | - | 8 | - |
| | DNd 80 | 76.2 | 160 | 210 | 28.6 | 19 | - | 8 | - |
| LS 125-100-279 | DNs 125 | 127 | 210 | 279 | 34.9 | 19 | - | 8 | - |
| | DNd 100 | 102 | 180 | 254 | 31.8 | 19 | - | 8 | - |
| LS 125-100-305 | DNs 125 | 127 | 210 | 279 | 34.9 | 19 | - | 8 | - |
| | DNd 100 | 102 | 180 | 254 | 31.8 | 19 | - | 8 | - |
| LS 125-100-381 | DNs 125 | 127 | 210 | 279 | 34.9 | 19 | - | 8 | - |
| | DNd 100 | 102 | 180 | 254 | 31.8 | 19 | - | 8 | - |
| LS 125-100-388 | DNs 125 | 127 | 210 | 279 | 34.9 | 19 | - | 8 | - |
| | DNd 100 | 102 | 180 | 254 | 31.8 | 19 | - | 8 | - |
| LS 150-125-305 | DNs 150 | 152 | 240 | 318 | 36.5 | 23 | M20 | 6 | 2 |
| | DNd 125 | 127 | 210 | 279 | 34.9 | 19 | - | 8 | - |
| LS 150-125-381 | DNs 150 | 152 | 240 | 318 | 36.5 | 23 | - | 8 | - |
| | DNd 125 | 127 | 210 | 279 | 34.9 | 19 | - | 8 | - |
| LS 200-150-305 | DNs 200 | 203 | 295 | 381 | 41.3 | 23 | - | 8 | - |
| | DNd 150 | 152 | 240 | 318 | 36.5 | 23 | - | 8 | - |
| LS 200-150-381 | DNs 200 | 203 | 295 | 381 | 41.3 | 23 | - | 8 | - |
| | DNd 150 | 152 | 240 | 318 | 36.5 | 23 | - | 8 | - |
| LS 200-150-483 | DNs 200 | 203 | 295 | 381 | 41.4 | - | M20 | - | 8 |
| | DNd 150 | 152 | 240 | 318 | 36.6 | 23 | M20 | 4 | 4 |
| LS 200-150-508 | DNs 200 | 203 | 295 | 381 | 41.3 | 23 | M20 | 4 | 4 |
| | DNd 150 | 152 | 240 | 318 | 36.5 | 23 | - | 8 | - |
| LS 250-200-305 | DNs 250 | 254 | 350 | 445 | 47.6 | - | M20 | - | 12 |
| | DNd 200 | 203 | 295 | 381 | 41.3 | 23 | M20 | 4 | 4 |
| LS 250-200-381 | DNs 250 | 254 | 350 | 445 | 47.8 | 23 | - | 12 | - |
| | DNd 200 | 203 | 295 | 381 | 41.4 | 23 | - | 8 | - |
| LS 300-200-489 | DNs 300 | 305 | 400 | 521 | 50.8 | 23 | - | 12 | - |
| | DNd 200 | 203 | 295 | 381 | 41.3 | 23 | - | 8 | - |
| LS 300-250-305 | DNs 300 | 305 | 400 | 521 | 50.8 | 23 | M20 | 10 | 2 |
| | DNd 250 | 254 | 350 | 445 | 47.6 | 23 | - | 12 | - |
| LS 300-250-381 | DNs 300 | 305 | 400 | 521 | 50.8 | 23 | M20 | 8 | 4 |
| | DNd 250 | 254 | 350 | 445 | 47.6 | 23 | - | 12 | - |
| LS 350-250-498 | DNs 350 | 356 | 460 | 584 | 53.9 | 23 | - | 16 | - |
| | DNd 250 | 254 | 350 | 445 | 47.6 | 23 | - | 12 | - |

EN 1092-2 (DIN 2501)
PN 10



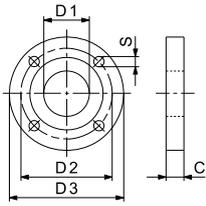
Dimensions
[mm]

Number of free
holes (FH) Number of
tapped holes
(TH)

| Pump type | Flange size | D1 | D2 | D3 | C | S _{FH} | S _{TH} | Number of free holes (FH) | Number of tapped holes (TH) |
|----------------|-------------|-----|-----|-----|------|-----------------|-----------------|---------------------------|-----------------------------|
| LS 350-250-630 | DNs 350 | 356 | 460 | 584 | 54.0 | 23 | - | 16 | - |
| | DNd 250 | 254 | 350 | 445 | 47.6 | - | M20 | - | 12 |
| LS 350-300-508 | DNs 350 | 356 | 460 | 584 | 54.0 | 23 | - | 16 | - |
| | DNd 300 | 305 | 400 | 521 | 50.8 | 23 | - | 12 | - |
| LS 450-350-397 | DNs 450 | 450 | 565 | 615 | 40.0 | 28 | M24 | 16 | 4 |
| | DNd 350 | 350 | 460 | 584 | 45.0 | 23 | - | 16 | - |

ANSI 125

Some pump flanges have tapped holes due to the pump construction.

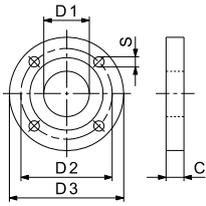


ANSI 125

Dimensions

Number of free holes (FH) **Number of tapped holes (TH)**

| Pump type | Nominal pipe size | D1 | | D2 | | D3 | | C | | SFH | | STH | | Number of free holes (FH) | Number of tapped holes (TH) |
|----------------|-------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------------|--------|---------------------------|-----------------------------|
| | | [mm] | [inch] | [mm] | [inch] | | |
| LS 65-50-241 | NPSs 2 1/2 | 76.2 | 3.0 | 140 | 5.50 | 191 | 7.50 | 25.4 | 1.00 | 19.1 | 0.75 | - | - | 4 | - |
| | NPSd 2 | 50.8 | 2.0 | 121 | 4.75 | 165 | 6.50 | 22.2 | 0.88 | 19.1 | 0.75 | - | - | 4 | - |
| LS 65-50-330 | NPSs 2 1/2 | 76.2 | 3.0 | 140 | 5.50 | 191 | 7.50 | 25.4 | 1.00 | 19.1 | 0.75 | - | - | 4 | - |
| | NPSd 2 | 50.8 | 2.0 | 121 | 4.75 | 165 | 6.50 | 22.2 | 0.88 | 19.1 | 0.75 | - | - | 4 | - |
| LS 100-80-241 | NPSs 4 | 102 | 4.0 | 191 | 7.50 | 254 | 10.00 | 31.8 | 1.25 | 19.1 | 0.75 | - | - | 8 | - |
| | NPSd 3 | 76.2 | 3.0 | 152 | 6.00 | 210 | 8.25 | 28.6 | 1.13 | 19.1 | 0.75 | - | - | 4 | - |
| LS 100-80-356 | NPSs 4 | 102 | 4.0 | 191 | 7.50 | 254 | 10.00 | 31.8 | 1.25 | - | - | 5/8-11 UNC | - | - | 8 |
| | NPSd 3 | 76.2 | 3.0 | 152 | 6.00 | 210 | 8.25 | 28.6 | 1.13 | 19.1 | 0.75 | - | - | 4 | - |
| LS 125-100-279 | NPSs 5 | 127 | 5.0 | 216 | 8.50 | 279 | 11.00 | 34.9 | 1.38 | 22.4 | 0.88 | 3/4-10 UNC | 6 | 2 | |
| | NPSd 4 | 102 | 4.0 | 191 | 7.50 | 254 | 10.00 | 31.8 | 1.25 | 19.1 | 0.75 | - | - | 8 | - |
| LS 125-100-305 | NPSs 5 | 127 | 5.0 | 216 | 8.50 | 279 | 11.00 | 34.9 | 1.38 | 22.4 | 0.88 | 3/4-10 UNC | 6 | 2 | |
| | NPSd 4 | 102 | 4.0 | 191 | 7.50 | 254 | 10.00 | 31.8 | 1.25 | 19.1 | 0.75 | - | - | 8 | - |
| LS 125-100-381 | NPSs 5 | 127 | 5.0 | 216 | 8.50 | 279 | 11.00 | 34.9 | 1.38 | 22.4 | 0.88 | 3/4-10 UNC | 4 | 4 | |
| | NPSd 4 | 102 | 4.0 | 191 | 7.50 | 254 | 10.00 | 31.8 | 1.25 | 19.1 | 0.75 | - | - | 8 | - |
| LS 125-100-388 | NPSs 5 | 127 | 5.0 | 216 | 8.50 | 279 | 11.00 | 34.9 | 1.38 | 22.4 | 0.88 | 3/4-10 UNC | 4 | 4 | |
| | NPSd 4 | 102 | 4.0 | 191 | 7.50 | 254 | 10.00 | 31.8 | 1.25 | 19.1 | 0.75 | - | - | 8 | - |
| LS 150-125-305 | NPSs 6 | 152 | 6.0 | 241 | 9.50 | 318 | 12.50 | 36.5 | 1.44 | - | - | 3/4-10 UNC | - | 8 | |
| | NPSd 5 | 127 | 5.0 | 216 | 8.50 | 279 | 11.00 | 34.9 | 1.38 | 22.4 | 0.88 | - | - | 8 | - |
| LS 150-125-381 | NPSs 6 | 152 | 6.0 | 241 | 9.50 | 318 | 12.50 | 36.5 | 1.44 | 22.4 | 0.88 | - | - | 8 | - |
| | NPSd 5 | 127 | 5.0 | 216 | 8.50 | 279 | 11.00 | 34.9 | 1.38 | 22.4 | 0.88 | - | - | 8 | - |
| LS 200-150-305 | NPSs 8 | 203 | 8.0 | 298 | 11.75 | 381 | 15.00 | 41.3 | 1.63 | 22.4 | 0.88 | - | - | 8 | - |
| | NPSd 6 | 152 | 6.0 | 241 | 9.50 | 318 | 12.50 | 36.5 | 1.44 | 22.4 | 0.88 | - | - | 8 | - |
| LS 200-150-381 | NPSs 8 | 203 | 8.0 | 298 | 11.75 | 381 | 15.00 | 41.3 | 1.63 | 22.4 | 0.88 | 3/4-10 UNC | 4 | 4 | |
| | NPSd 6 | 152 | 6.0 | 241 | 9.50 | 318 | 12.50 | 36.5 | 1.44 | 22.4 | 0.88 | - | - | 8 | - |
| LS 200-150-483 | NPSs 8 | 203 | 8.0 | 298 | 11.75 | 381 | 15.00 | 41.4 | 1.63 | - | - | 3/4-10 UNC | - | 8 | |
| | NPSd 6 | 152 | 6.0 | 241 | 9.50 | 318 | 12.50 | 36.6 | 1.44 | 22.4 | 0.88 | - | - | 8 | - |
| LS 200-150-508 | NPSs 8 | 203 | 8.0 | 298 | 11.75 | 381 | 15.00 | 41.3 | 1.63 | 22.4 | 0.88 | - | - | 8 | - |
| | NPSd 6 | 152 | 6.0 | 241 | 9.50 | 318 | 12.50 | 36.5 | 1.44 | 22.4 | 0.88 | - | - | 8 | - |
| LS 250-200-305 | NPSs 10 | 254 | 10.0 | 362 | 14.25 | 445 | 17.50 | 47.6 | 1.88 | 25.4 | 1.00 | - | - | 12 | - |
| | NPSd 8 | 203 | 8.0 | 298 | 11.75 | 381 | 15.00 | 41.3 | 1.63 | 22.4 | 0.88 | - | - | 8 | - |
| LS 250-200-381 | NPSs 10 | 254 | 10.0 | 362 | 14.25 | 445 | 17.50 | 47.8 | 1.88 | 25.4 | 1.00 | - | - | 12 | - |
| | NPSd 8 | 203 | 8.0 | 298 | 11.75 | 381 | 15.00 | 41.4 | 1.63 | 22.4 | 0.88 | - | - | 8 | - |
| LS 300-200-489 | NPSs 12 | 305 | 12.0 | 432 | 17.00 | 521 | 20.50 | 50.8 | 2.00 | 25.4 | 1.00 | - | - | 12 | - |
| | NPSd 8 | 203 | 8.0 | 298 | 11.75 | 381 | 15.00 | 41.4 | 1.63 | 22.4 | 0.88 | - | - | 8 | - |
| LS 300-250-305 | NPSs 12 | 305 | 12.0 | 432 | 17.00 | 521 | 20.50 | 50.8 | 2.00 | 25.4 | 1.00 | - | - | 12 | - |
| | NPSd 10 | 254 | 10.0 | 362 | 14.25 | 445 | 17.50 | 47.6 | 1.88 | 25.4 | 1.00 | - | - | 12 | - |
| LS 300-250-381 | NPSs 12 | 305 | 12.0 | 432 | 17.00 | 521 | 20.50 | 50.8 | 2.00 | 25.4 | 1.00 | - | - | 12 | - |
| | NPSd 10 | 254 | 10.0 | 362 | 14.25 | 445 | 17.50 | 47.6 | 1.88 | 25.4 | 1.00 | - | - | 12 | - |
| LS 350-250-498 | NPSs 14 | 356 | 14.0 | 476 | 18.75 | 584 | 23.00 | 53.9 | 2.12 | 28.5 | 1.12 | - | - | 12 | - |
| | NPSd 10 | 254 | 10.0 | 362 | 14.25 | 445 | 17.50 | 47.6 | 1.88 | 25.4 | 1.00 | - | - | 12 | - |
| LS 350-250-630 | NPSs 14 | 356 | 14.0 | 476 | 18.75 | 584 | 23.00 | 54.0 | 2.13 | 28.5 | 1.12 | - | - | 12 | - |
| | NPSd 10 | 254 | 10.0 | 362 | 14.25 | 445 | 17.50 | 47.6 | 1.88 | 25.4 | 1.00 | - | - | 12 | - |
| LS 350-300-508 | NPSs 14 | 356 | 14.0 | 476 | 18.75 | 584 | 23.00 | 54.0 | 2.13 | 28.5 | 1.12 | - | - | 12 | - |
| | NPSd 12 | 305 | 12.0 | 432 | 17.00 | 521 | 20.50 | 50.8 | 2.00 | 25.4 | 1.00 | - | - | 12 | - |



ANSI 125

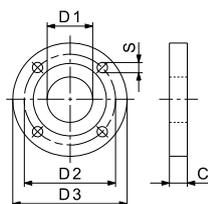
Dimensions

Number of free holes (FH) Number of tapped holes (TH)

| Pump type | Nominal pipe size | D1 | | D2 | | D3 | | C | | S _{FH} | | S _{TH} | Number of free holes (FH) | Number of tapped holes (TH) |
|----------------|-------------------|------|--------|------|--------|------|--------|------|--------|-----------------|--------|-----------------|---------------------------|-----------------------------|
| | | [mm] | [inch] | [mm] | [inch] | [mm] | [inch] | [mm] | [inch] | [mm] | [inch] | | | |
| LS 400-350-497 | NPSs 16 | 400 | 15.7 | 540 | 21.25 | 648 | 25.51 | 50.0 | 1.97 | 28.5 | 1.12 | 1-8 UNC | 12 | 4 |
| | NPSd 14 | 350 | 13.8 | 476 | 18.75 | 584 | 22.99 | 45.0 | 1.77 | 28.5 | 1.12 | - | 12 | - |
| LS 450-350-397 | NPSs 18 | 458 | 18.0 | 578 | 22.75 | 635 | 25.00 | 40.0 | 1.57 | 31.75 | 1.25 | 1 1/8-7 UNC | 12 | 4 |
| | NPSd 14 | 350 | 13.8 | 476 | 18.75 | 584 | 22.99 | 45.0 | 1.77 | 28.5 | 1.12 | - | 12 | - |

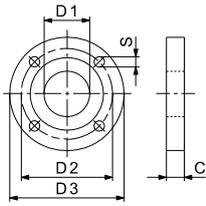
ANSI 250

Some pump flanges have tapped holes due to the pump construction.



ANSI 250

| Pump type | Nominal pipe size | Dimensions | | | | | | | | | | Number of free holes (FH) | Number of tapped holes (TH) | | |
|----------------|-------------------|------------|--------|------|--------|------|--------|------|--------|-----------------|--------|---------------------------|-----------------------------|-----------------|--------|
| | | D1 | | D2 | | D3 | | C | | S _{FH} | | | | S _{TH} | |
| | | [mm] | [inch] | [mm] | [inch] | [mm] | [inch] | [mm] | [inch] | [mm] | [inch] | | | [mm] | [inch] |
| LS 65-50-241 | NPSs 2 1/2 | 76.2 | 3.0 | 149 | 5.88 | 191 | 7.50 | 25.4 | 1.00 | 22.4 | 0.88 | 3/4-10 UNC | 6 | 2 | |
| | NPSd 2 | 50.8 | 2.0 | 127 | 5.00 | 165 | 6.50 | 22.2 | 0.88 | 19.1 | 0.75 | 5/8-11 UNC | 6 | 2 | |
| LS 65-50-330 | NPSs 2 1/2 | 76.2 | 3.0 | 149 | 5.88 | 191 | 7.50 | 25.4 | 1.00 | 22.4 | 0.88 | - | 4 | - | |
| | NPSd 2 | 50.8 | 2.0 | 127 | 5.00 | 165 | 6.50 | 22.2 | 0.88 | 19.1 | 0.75 | - | 4 | - | |
| LS 100-80-241 | NPSs 4 | 102 | 4.0 | 200 | 7.88 | 254 | 10.00 | 31.8 | 1.25 | 22.4 | 0.88 | - | 8 | - | |
| | NPSd 3 | 76.2 | 3.0 | 168 | 6.62 | 210 | 8.25 | 28.6 | 1.13 | 22.4 | 0.88 | - | 8 | - | |
| LS 100-80-356 | NPSs 4 | 102 | 4.0 | 200 | 7.88 | 254 | 10.00 | 31.8 | 1.25 | 22.4 | 0.88 | 3/4-10 UNC | 6 | 2 | |
| | NPSd 3 | 76.2 | 3.0 | 168 | 6.62 | 210 | 8.25 | 28.6 | 1.13 | 22.4 | 0.88 | - | 8 | - | |
| LS 125-100-279 | NPSs 5 | 127 | 5.0 | 235 | 9.25 | 279 | 11.00 | 34.9 | 1.38 | 22.4 | 0.88 | 3/4-10 UNC | 6 | 2 | |
| | NPSd 4 | 102 | 4.0 | 200 | 7.88 | 254 | 10.00 | 31.8 | 1.25 | 22.4 | 0.88 | - | 8 | - | |
| LS 125-100-305 | NPSs 5 | 127 | 5.0 | 235 | 9.25 | 279 | 11.00 | 34.9 | 1.38 | 22.4 | 0.88 | 3/4-10 UNC | 6 | 2 | |
| | NPSd 4 | 102 | 4.0 | 200 | 7.88 | 254 | 10.00 | 31.8 | 1.25 | 22.4 | 0.88 | - | 8 | - | |
| LS 125-100-381 | NPSs 5 | 127 | 5.0 | 235 | 9.25 | 279 | 11.00 | 34.9 | 1.38 | 22.4 | 0.88 | 3/4-10 UNC | 4 | 4 | |
| | NPSd 4 | 102 | 4.0 | 200 | 7.88 | 254 | 10.00 | 31.8 | 1.25 | 22.4 | 0.88 | - | 8 | - | |
| LS 125-100-388 | NPSs 5 | 127 | 5.0 | 235 | 9.25 | 279 | 11.00 | 34.9 | 1.38 | 22.4 | 0.88 | 3/4-10 UNC | 4 | 4 | |
| | NPSd 4 | 102 | 4.0 | 200 | 7.88 | 254 | 10.00 | 31.8 | 1.25 | 22.4 | 0.88 | - | 8 | - | |
| LS 150-125-305 | NPSs 6 | 152 | 6.0 | 270 | 10.62 | 318 | 12.50 | 36.5 | 1.44 | 22.4 | 0.88 | 3/4-10 UNC | 10 | 2 | |
| | NPSd 5 | 127 | 5.0 | 235 | 9.25 | 279 | 11.00 | 34.4 | 1.35 | 22.4 | 0.88 | - | 8 | - | |
| LS 150-125-381 | NPSs 6 | 152 | 6.0 | 270 | 10.62 | 318 | 12.50 | 36.5 | 1.44 | 22.4 | 0.88 | - | 12 | - | |
| | NPSd 5 | 127 | 5.0 | 235 | 9.25 | 279 | 11.00 | 34.4 | 1.35 | 22.4 | 0.88 | - | 8 | - | |
| LS 200-150-305 | NPSs 8 | 203 | 8.0 | 330 | 13.00 | 381 | 15.00 | 41.3 | 1.63 | 25.4 | 1.00 | - | 12 | - | |
| | NPSd 6 | 152 | 6.0 | 270 | 10.62 | 318 | 12.50 | 36.5 | 1.44 | 22.4 | 0.88 | - | 12 | - | |
| LS 200-150-381 | NPSs 8 | 203 | 8.0 | 330 | 13.00 | 381 | 15.00 | 41.3 | 1.63 | 25.4 | 1.00 | - | 12 | - | |
| | NPSd 6 | 152 | 6.0 | 270 | 10.62 | 318 | 12.50 | 36.5 | 1.44 | 22.4 | 0.88 | - | 12 | - | |
| LS 200-150-483 | NPSs 8 | 203 | 8.0 | 330 | 13.00 | 381 | 15.00 | 41.4 | 1.63 | - | - | 7/8-9 UNC | - | 12 | |
| | NPSd 6 | 152 | 6.0 | 270 | 10.62 | 318 | 12.50 | 36.6 | 1.44 | 22.4 | 0.88 | - | 12 | - | |
| LS 200-150-508 | NPSs 8 | 203 | 8.0 | 330 | 13.00 | 381 | 15.00 | 41.3 | 1.63 | 25.4 | 1.00 | - | 12 | - | |
| | NPSd 6 | 152 | 6.0 | 270 | 10.62 | 318 | 12.50 | 36.5 | 1.44 | 22.4 | 0.88 | - | 12 | - | |
| LS 250-200-305 | NPSs 10 | 254 | 10.0 | 387 | 15.25 | 445 | 17.50 | 47.6 | 1.88 | 28.6 | 1.13 | 1-8 UNC | 12 | 4 | |
| | NPSd 8 | 203 | 8.0 | 330 | 13.00 | 381 | 15.00 | 41.3 | 1.63 | 25.4 | 1.00 | 7/8-9 UNC | 8 | 4 | |
| LS 250-200-381 | NPSs 10 | 254 | 10.0 | 387 | 15.25 | 445 | 17.50 | 47.8 | 1.88 | 28.6 | 1.13 | - | 16 | - | |
| | NPSd 8 | 203 | 8.0 | 330 | 13.00 | 381 | 15.00 | 41.4 | 1.63 | 25.4 | 1.00 | - | 12 | - | |
| LS 300-200-489 | NPSs 12 | 305 | 12.0 | 451 | 17.75 | 521 | 20.50 | 50.8 | 2.00 | 31.8 | 1.25 | - | 16 | - | |
| | NPSd 8 | 203 | 8.0 | 330 | 13.00 | 381 | 15.00 | 41.4 | 1.63 | 25.4 | 1.00 | - | 12 | - | |
| LS 300-250-305 | NPSs 12 | 305 | 12.0 | 451 | 17.75 | 521 | 20.50 | 50.8 | 2.00 | 31.8 | 1.25 | - | 16 | - | |
| | NPSd 10 | 254 | 10.0 | 387 | 15.25 | 445 | 17.50 | 47.6 | 1.88 | 28.5 | 1.12 | - | 16 | - | |
| LS 300-250-381 | NPSs 12 | 305 | 12.0 | 451 | 17.75 | 521 | 20.50 | 50.8 | 2.00 | 31.8 | 1.25 | - | 16 | - | |
| | NPSd 10 | 254 | 10.0 | 387 | 15.25 | 445 | 17.50 | 47.6 | 1.88 | 28.5 | 1.12 | - | 16 | - | |
| LS 350-250-498 | NPSs 14 | 356 | 14.0 | 514 | 20.25 | 584 | 23.00 | 53.9 | 2.12 | 31.8 | 1.25 | - | 20 | - | |
| | NPSd 10 | 254 | 10.0 | 387 | 15.25 | 445 | 17.50 | 47.6 | 1.88 | 28.5 | 1.12 | - | 16 | - | |
| LS 350-250-630 | NPSs 14 | 356 | 14.0 | 514 | 20.25 | 584 | 23.00 | 54.0 | 2.13 | 31.8 | 1.25 | - | 20 | - | |
| | NPSd 10 | 254 | 10.0 | 387 | 15.25 | 445 | 17.50 | 47.6 | 1.88 | 28.5 | 1.12 | - | 16 | - | |



ANSI 250

Dimensions

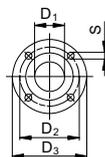
Number of free holes (FH) Number of tapped holes (TH)

| Pump type | Nominal pipe size | D1 | | D2 | | D3 | | C | | S _{FH} | | S _{TH} | | Number of free holes (FH) | Number of tapped holes (TH) |
|----------------|-------------------|------|--------|------|--------|-------|--------|------|--------|-----------------|--------|-----------------|--------|---------------------------|-----------------------------|
| | | [mm] | [inch] | [mm] | [inch] | [mm] | [inch] | [mm] | [inch] | [mm] | [inch] | [mm] | [inch] | | |
| LS 350-300-508 | NPSs 14 | 356 | 14.0 | 514 | 20.25 | 584 | 23.00 | 54.0 | 2.13 | 31.8 | 1.25 | - | - | 20 | - |
| | NPSd 12 | 305 | 12.0 | 451 | 17.75 | 521 | 20.50 | 50.8 | 2.00 | 31.8 | 1.25 | - | - | 16 | - |
| LS 400-350-497 | NPSs 16 | 400 | 15.7 | 572 | 22.50 | 648 | 25.51 | 50.0 | 1.97 | 35.1 | 1.38 | 1 1/8-7 UNC | 16 | 4 | |
| | NPSd 14 | 350 | 13.8 | 514 | 20.25 | 584 | 22.99 | 45.0 | 1.77 | 31.8 | 1.25 | 1 1/8-7 UNC | 16 | 4 | |
| LS 450-350-397 | NPSs 18 | 458 | 18.0 | 592 | 23.31 | 711.2 | 28.00 | 50.0 | 1.97 | 35.0 | 1.38 | 1 1/4-7 UNC | 24 | - | |
| | NPSd 14 | 350 | 13.8 | 514 | 20.25 | 584 | 22.99 | 45.0 | 1.77 | 31.8 | 1.25 | 1 1/8-7 UNC | 16 | 4 | |

Counterflange dimensions

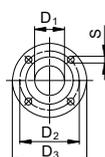
The following tables show standard dimensions for counterflanges.

Counterflanges to EN 1092-2 (DIN 2501), PN 16



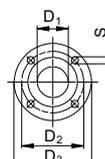
| | Nominal flange diameter (DN) | | | | | | | | | | |
|-----------|------------------------------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| | [mm] | | | | | | | | | | |
| | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 450 |
| D1 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 450 |
| D2 | 125 | 145 | 160 | 180 | 210 | 240 | 295 | 355 | 410 | 470 | 585 |
| D3 | 165 | 185 | 200 | 220 | 250 | 285 | 340 | 400 | 455 | 520 | 640 |
| S | 4 x 19 | 4 x 19 | 8 x 19 | 8 x 19 | 8 x 19 | 8 x 23 | 12 x 23 | 12 x 28 | 12 x 28 | 16 x 28 | 20 x 16 |
| Bolt size | M16 | M16 | M16 | M16 | M16 | M20 | M20 | M24 | M24 | M24 | M27 |

Counterflanges to EN 1092-2 (DIN 2501), PN 10



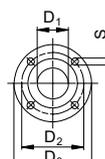
| | Nominal flange diameter (DN) | | | | | | | | | | |
|-----------|------------------------------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| | [mm] | | | | | | | | | | |
| | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 450 |
| D1 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 450 |
| D2 | 125 | 145 | 160 | 180 | 210 | 240 | 295 | 350 | 400 | 460 | 565 |
| D3 | 165 | 185 | 200 | 220 | 250 | 285 | 340 | 395 | 445 | 505 | 615 |
| S | 4 x 19 | 4 x 19 | 8 x 19 | 8 x 19 | 8 x 19 | 8 x 23 | 8 x 23 | 12 x 23 | 12 x 23 | 16 x 23 | 20 x 16 |
| Bolt size | M16 | M16 | M16 | M16 | M16 | M20 | M20 | M20 | M20 | M20 | M24 |

Counterflanges to ANSI 125



| | Nominal flange diameter (NPS) | | | | | | | | | | | |
|-----------|-------------------------------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|------------|
| | | 2 | 2 1/2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 18 |
| D1 | [mm] | 50.8 | 63.5 | 76.2 | 102 | 127 | 152 | 203 | 254 | 305 | 356 | 457.2 |
| | [inch] | 2 | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 18 |
| D2 | [mm] | 121 | 140 | 152 | 191 | 216 | 241 | 298 | 362 | 432 | 476 | 580 |
| | [inch] | 4.75 | 5.5 | 6 | 7.5 | 8.5 | 9.5 | 11.8 | 14.3 | 17 | 18.8 | 22.75 |
| D3 | [mm] | 152 | 178 | 191 | 229 | 254 | 279 | 343 | 406 | 483 | 533 | 635 |
| | [inch] | 6 | 7 | 7.5 | 9 | 10 | 11 | 13.5 | 16 | 19 | 21 | 25 |
| S | [mm] | 4 x 19.1 | 4 x 19.1 | 4 x 19.1 | 8 x 19.1 | 8 x 22.4 | 8 x 22.4 | 8 x 22.4 | 12 x 25.4 | 12 x 25.4 | 12 x 28.5 | 16 x 31.75 |
| | [inch] | 4 x 0.75 | 4 x 0.75 | 4 x 0.75 | 8 x 0.75 | 8 x 0.88 | 8 x 0.88 | 8 x 0.88 | 12 x 1.00 | 12 x 1.00 | 12 x 1.12 | 16 x 1.25 |
| Bolt size | | 5/8" | 5/8" | 5/8" | 5/8" | 3/4" | 3/4" | 3/4" | 7/8" | 7/8" | 1" | 1 1/8" |

Counterflanges to ANSI 250



| | Nominal flange diameter (NPS) | | | | | | | | | | | |
|-----------|-------------------------------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | 2 | 2 1/2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 18 |
| D1 | [mm] | 50.8 | 63.5 | 76.2 | 102 | 127 | 152 | 203 | 254 | 305 | 337 | 457.2 |
| | [inch] | 2 | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 13.3 | 18 |
| D2 | [mm] | 127 | 149 | 168 | 200 | 235 | 270 | 330 | 387 | 451 | 514 | 592 |
| | [inch] | 5 | 5.88 | 6.62 | 7.88 | 9.25 | 10.6 | 13 | 15.3 | 17.8 | 20.3 | 23.31 |
| D3 | [mm] | 165 | 191 | 210 | 254 | 279 | 318 | 381 | 445 | 521 | 584 | 711.2 |
| | [inch] | 6.5 | 7.5 | 8.25 | 10 | 11 | 12.5 | 15 | 17.5 | 20.5 | 23 | 28 |
| S | [mm] | 8 x 19.1 | 8 x 22.4 | 8 x 22.4 | 8 x 22.4 | 8 x 22.4 | 12 x 22.4 | 12 x 25.4 | 16 x 28.5 | 16 x 31.8 | 20 x 31.8 | 24 x 35.1 |
| | [inch] | 8 x 0.75 | 8 x 0.88 | 8 x 0.88 | 8 x 0.88 | 8 x 0.88 | 12 x 0.88 | 12 x 1.00 | 16 x 1.12 | 16 x 1.25 | 20 x 1.25 | 24 x 1.38 |
| Bolt size | | 5/8" | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 7/8" | 1" | 1 1/8" | 1 1/8" | 1 1/4" |

Tap and drain plug dimensions

| Pump model | Outlet gauge tap 20C | Inlet gauge tap 20B | Case drain 20A | Outlet vent 17 (Dome) | Inlet vent 20E (Dome) |
|----------------|----------------------|---------------------|----------------|-----------------------|-----------------------|
| LS 65-50-241 | 1/4 | 1/4 | (4) 1/2 | 1/2 | (4) 1/4 |
| LS 65-50-330 | 1/4 | 1/4 | (4) 1/2 | 1/2 | (4) 1/4 |
| LS 100-80-241 | 1/4 | 1/4 | (4) 1/2 | 1/2 | (4) 1/4 |
| LS 100-80-356 | 1/4 | 1/4 | (4) 1/2 | 1/2 | (4) 1/4 |
| LS 125-100-279 | 1/4 | 1/4 | (4) 1/2 | 1/2 | (4) 1/4 |
| LS 125-100-305 | 1/4 | 1/4 | (4) 1/2 | 1/2 | (4) 1/4 |
| LS 125-100-381 | 1/4 | 1/4 | (4) 1/2 | 1/2 | (4) 1/4 |
| LS 125-100-388 | 1/4 | 1/4 | (4) 1/2 | 1/2 | (4) 1/4 |
| LS 150-125-305 | 1/4 | 1/4 | (4) 1/2 | 1/2 | (4) 1/4 |
| LS 150-125-381 | 1/4 | 1/4 | (4) 1/2 | 1/2 | (4) 1/4 |
| LS 200-150-305 | 1/4 | 1/4 | (4) 1/2 | 1/2 | (4) 1/4 |
| LS 200-150-381 | (2) 1/4 | (2) 1/4 | (4) 1/2 | 1/2 | (4) 1/4 |
| LS 200-150-483 | 1/4 | 1/4 | (4) 1/2 | 1/2 | (2) 1/4; (2) 1/2 |
| LS 200-150-508 | (2) 1/4 | (2) 1/4 | (4) 1/2 | 1/2 | (4) 1/4 |
| LS 250-200-305 | 1/4 | 1/4 | (4) 1/2 | 1/2 | (4) 1/4 |
| LS 250-200-381 | 1/4 | 1/4 | (4) 1/2 | 1/2 | (4) 1/4 |
| LS 300-200-489 | 1/4 | 1/4 | (4) 1/2 | 1/2 | (4) 1/4 |
| LS 300-250-305 | 1/4 | 1/4 | (4) 1/2 | 1/2 | (4) 1/4 |
| LS 300-250-381 | 1/4 | 1/4 | (4) 1/2 | 1/2 | (4) 1/4 |
| LS 350-250-498 | 1/4 | 1/4 | (4) 1/2 | 1/2 | (4) 1/4 |
| LS 350-250-630 | 1/4 | 1/4 | (4) 1/2 | 1/2 | (4) 1/4 |
| LS 350-300-508 | 1/4 | 1/4 | (4) 1/2 | 1/2 | (4) 1/4 |
| LS 450-350-397 | (2) 1/4 | (2) 1/4 | (4) 1/2 | 1/2 | (4) 1/4 |

All sizes shown are NPT standard tapered pipe threads (inch).

All quantities are one unless otherwise noted.

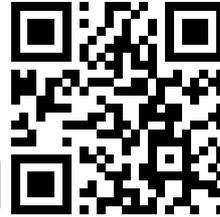
15. Grundfos GO

Mobile solution for professionals on the GO!

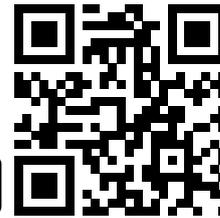
Grundfos GO is the mobile tool box for professional users on the go. It is the most comprehensive platform for mobile pump control and pump selection, including sizing, replacement and documentation. It offers intuitive, handheld assistance and access to Grundfos online tools, and it saves valuable time for reporting and data collection.



GET IT ON
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Available on the
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16. Grundfos Product Center

Online search and sizing tool to help you make the right choice.

From the international view, you can select your specific country to view the product range available to you.

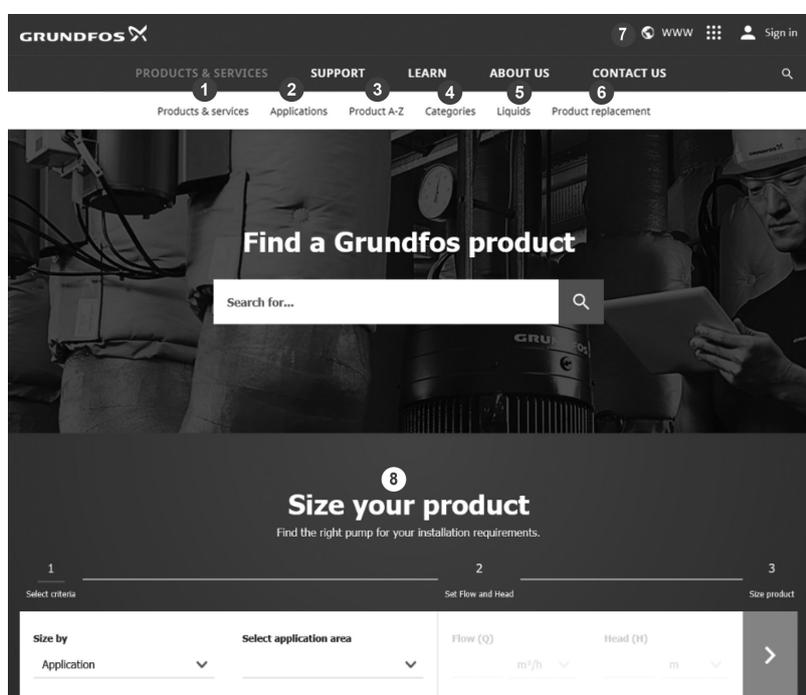
International view: <https://product-selection.grundfos.com>

All the information you need in one place

Performance curves, technical specifications, pictures, dimensional drawings, motor curves, wiring diagrams, spare parts, service kits, 3D drawings, documents, system parts. The Product Center displays any recent and saved items - including complete projects - right on the main page.

Downloads

On the product pages, you can download installation and operating instructions, data booklets, service instructions, etc., in PDF format.



When you select your country, you will see the menus below. Note that some menus may not be available depending on the country.

Example: <https://product-selection.grundfos.com/uk>

| Pos. | Description |
|------|---|
| 1 | Products & services enables you to find products and documents by typing a product number or name into the search field. |
| 2 | Applications enables you to choose an application to see how Grundfos can help you design and optimise your system. |
| 3 | Products A-Z enables you to look through a list of all the Grundfos products. |
| 4 | Categories enables you to look for a product category. |
| 5 | Liquids enables you to find pumps designed for aggressive, flammable or other special liquids. |
| 6 | Product replacement enables you to find a suitable replacement. |
| 7 | WWW enables you to select the country, which changes the language, the available product range and the structure of the website. |
| 8 | Sizing enables you to size a product based on your application and operating conditions. |

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