

# 85901438 MGE160LB 50 Hz

## Sound Measurement Report Sound Power measurement according to DS/ISO-3743

Motor type: MGE160LB      Product number: 85901438      Fan diameter: D240 [mm]  
P2: 18.5 [kW]      U: 400 [V]      Pole: 2      Frequency: 50 [Hz]

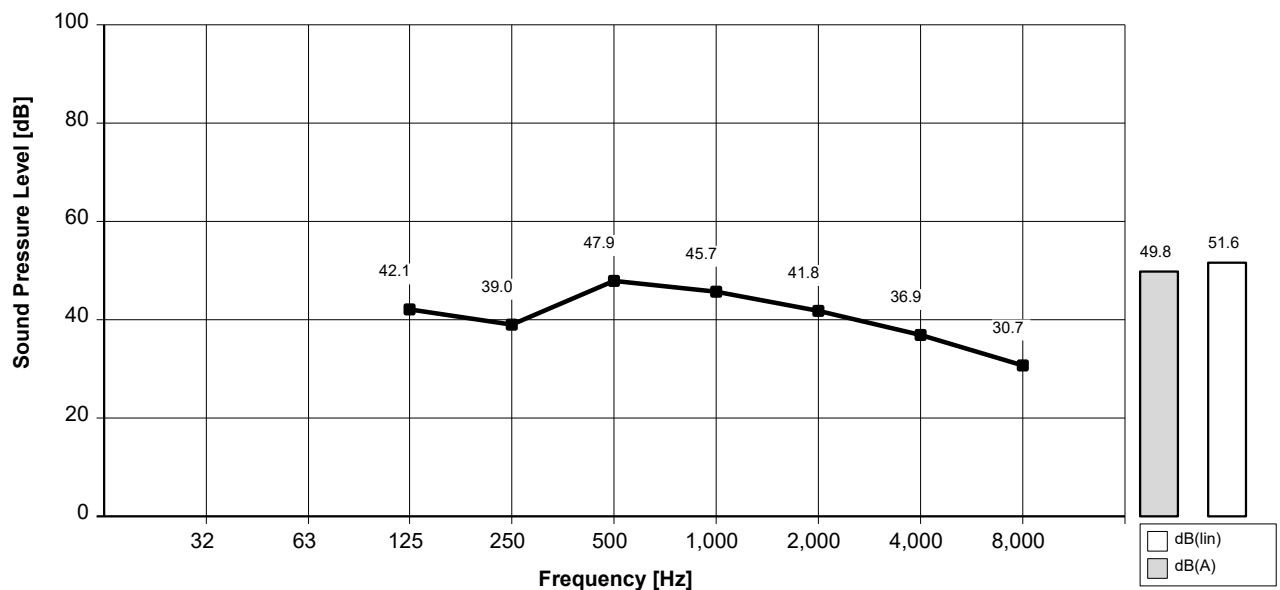
**Remarks:** The declared noise emission value, does not take production variations and measurement uncertainties into account. The declared value may therefore be up-to 3 dB higher, than the value for the average production unit.

**Tested at:** 1500 (idle) rpm

### Octave Band Level [db]

| Center Frequency                            | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 | dB(A) | dB(lin) |
|---------------------------------------------|------|------|------|------|------|------|------|-------|---------|
| Sound Power<br>Level re: 1 pW               | 55,2 | 52,1 | 61,0 | 58,7 | 54,8 | 49,9 | 43,8 | 62,8  | 64,6    |
| Sound Pressure Average<br>at 1m. re: 20 UPa | 42,1 | 39,0 | 47,9 | 45,7 | 41,8 | 36,9 | 30,7 | 49,8  | 51,6    |

### Sound Pressure calculated according to ISO/DIS 11203 method Q2



Initials: KIR

File no.: LY 30.05.2008

**Sound Measurement Report**  
**Sound Power measurement according to DS/ISO-3743**

**Motor type:** MGE160LB

**Product number:** 85901438

**Fan diameter:** D240 [mm]

**P2:** 18.5 [kW]

**U:** 400 [V]

**Pole:** 2

**Frequency:** 50 [Hz]

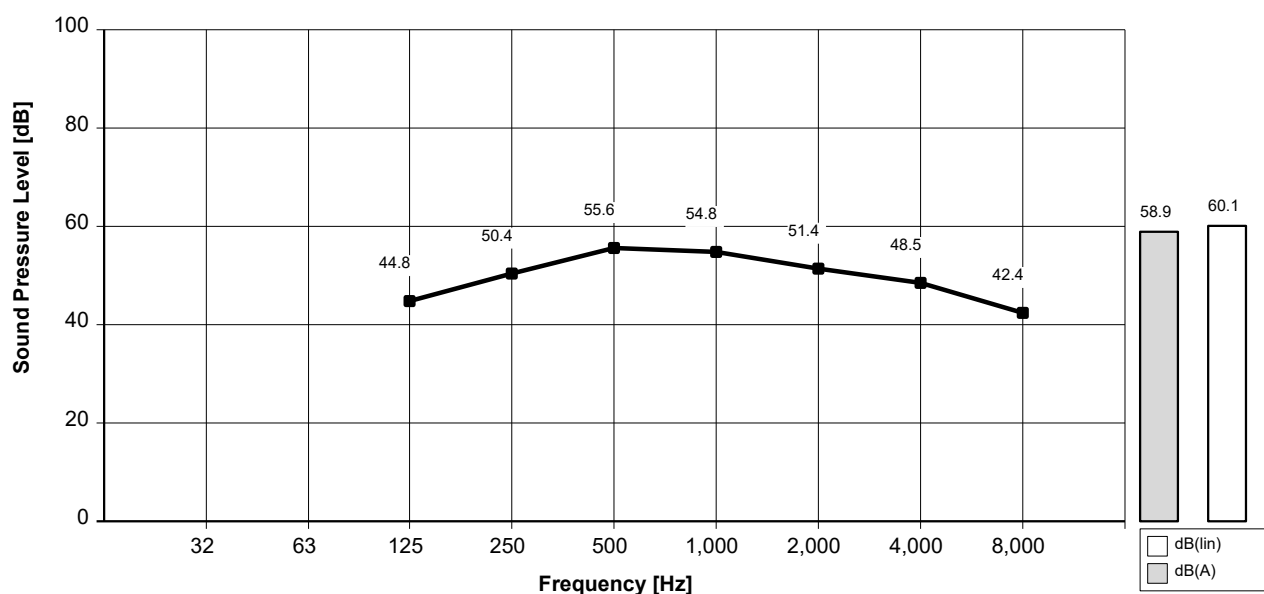
**Remarks:** The declared noise emission value, does not take production variations and measurement uncertainties into account. The declared value may therefore be up-to 3 dB higher, than the value for the average production unit.

**Tested at:** 2250 (idle) rpm

**Octave Band Level [db]**

| Center Frequency                            | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 | dB(A) | dB(lin) |
|---------------------------------------------|------|------|------|------|------|------|------|-------|---------|
| Sound Power<br>Level re: 1 pW               | 57,8 | 63,4 | 68,6 | 67,8 | 64,4 | 61,6 | 55,4 | 71,9  | 73,2    |
| Sound Pressure Average<br>at 1m. re: 20 UPa | 44,8 | 50,4 | 55,6 | 54,8 | 51,4 | 48,5 | 42,4 | 58,9  | 60,1    |

**Sound Pressure calculated according to ISO/DIS 11203 method Q2**



**Initials:** KIR

**File no.:** LY 02.06.2008

**Sound Measurement Report**  
**Sound Power measurement according to DS/ISO-3743**

**Motor type:** MGE160LB

**Product number:** 85901438

**Fan diameter:** D240 [mm]

**P2:** 18.5 [kW]

**U:** 400 [V]

**Pole:** 2

**Frequency:** 50 [Hz]

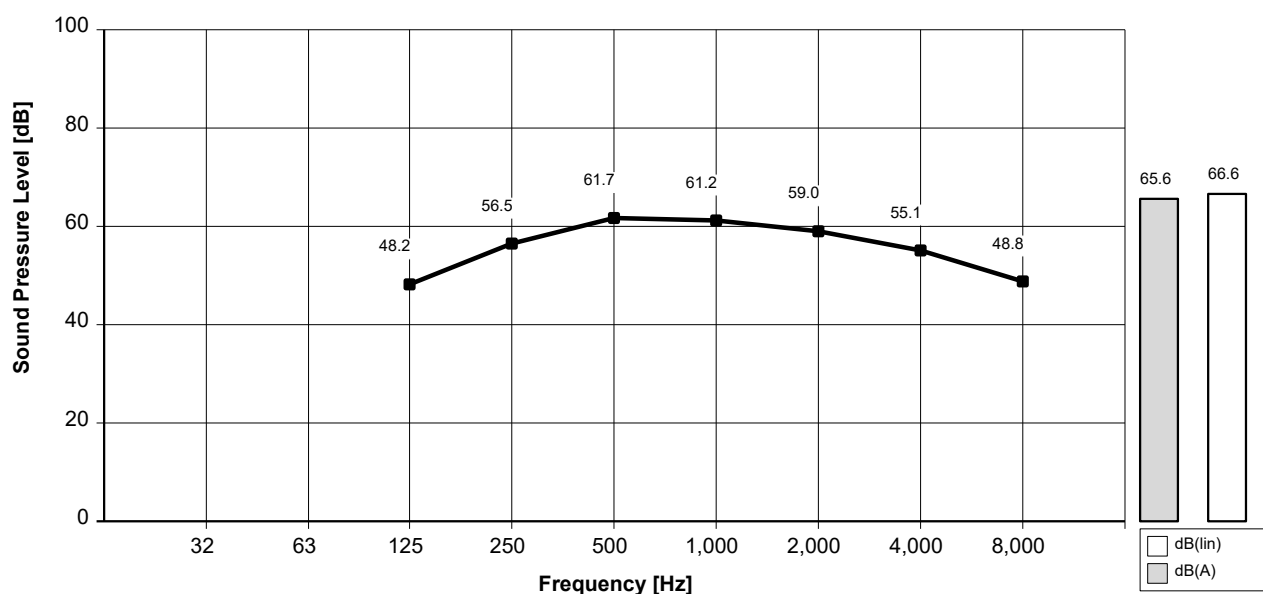
**Remarks:** The declared noise emission value, does not take production variations and measurement uncertainties into account. The declared value may therefore be up-to 3 dB higher, than the value for the average production unit.

**Tested at:** 3000 (idle) rpm

**Octave Band Level [db]**

| Center Frequency                            | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 | dB(A) | dB(lin) |
|---------------------------------------------|------|------|------|------|------|------|------|-------|---------|
| Sound Power<br>Level re: 1 pW               | 61,2 | 69,5 | 74,7 | 74,3 | 72,0 | 68,2 | 61,8 | 78,6  | 79,6    |
| Sound Pressure Average<br>at 1m. re: 20 UPa | 48,2 | 56,5 | 61,7 | 61,2 | 59,0 | 55,1 | 48,8 | 65,6  | 66,6    |

**Sound Pressure calculated according to ISO/DIS 11203 method Q2**



**Initials:** KIR

**File no.:** LY 30.05.2008

**Sound Measurement Report**  
**Sound Power measurement according to DS/ISO-3743**

**Motor type:** MGE160LB

**Product number:** 85901438

**Fan diameter:** D240 [mm]

**P2:** 18.5 [kW]

**U:** 400 [V]

**Pole:** 2

**Frequency:** 50 [Hz]

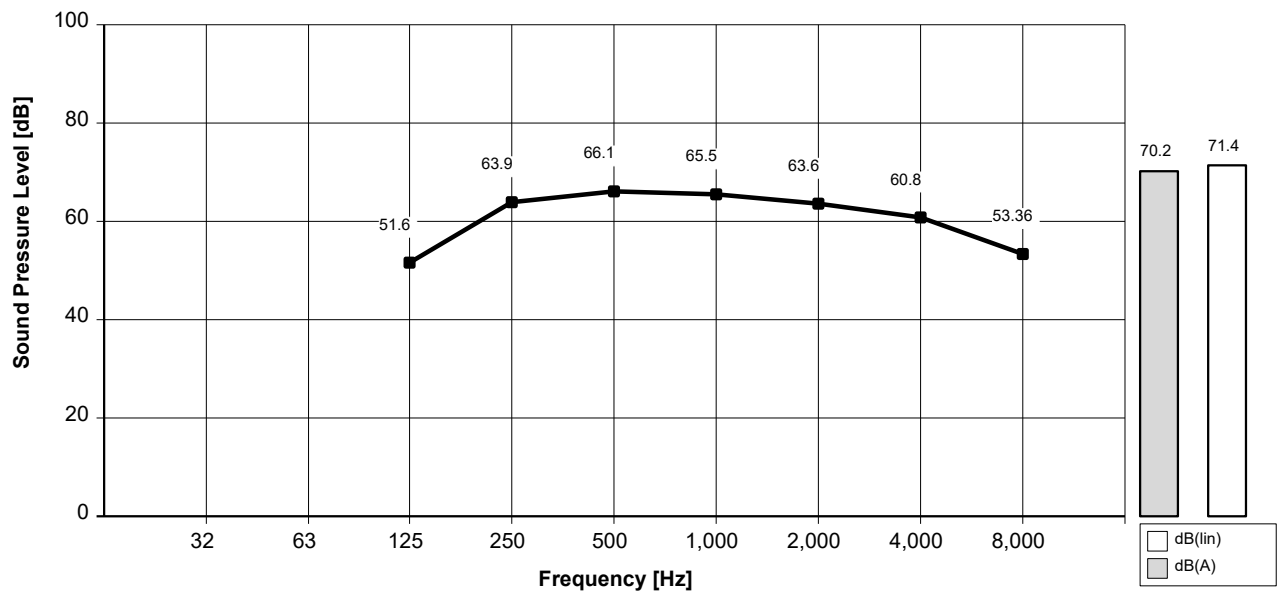
**Remarks:** The declared noise emission value, does not take production variations and measurement uncertainties into account. The declared value may therefore be up-to 3 dB higher, than the value for the average production unit.

**Tested at:** 3600 (idle) rpm

**Octave Band Level [db]**

| Center Frequency                            | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000  | dB(A) | dB(lin) |
|---------------------------------------------|------|------|------|------|------|------|-------|-------|---------|
| Sound Power<br>Level re: 1 pW               | 64,6 | 77,0 | 79,1 | 78,5 | 76,6 | 73,9 | 66,6  | 83,3  | 84,5    |
| Sound Pressure Average<br>at 1m. re: 20 UPa | 51,6 | 63,9 | 66,1 | 65,5 | 63,6 | 60,8 | 53,36 | 70,2  | 71,4    |

**Sound Pressure calculated according to ISO/DIS 11203 method Q2**



**Initials:** KIR

**File no.:** LY 30.05.2008