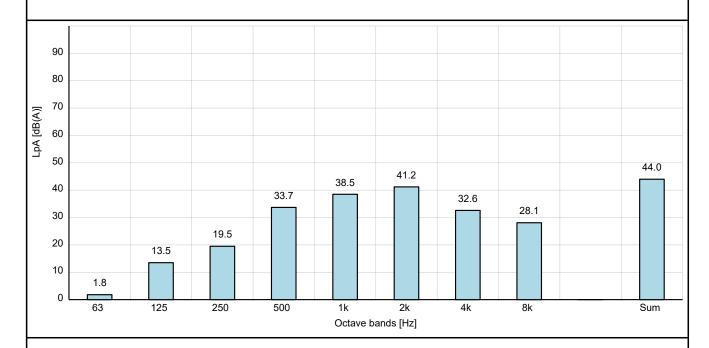
ISO 3745				
Object:	Motor type: MLE90D	U: f: P2: n:	3 x 440-480 [V] 50/60 [Hz] 2.2 [kW] 3480 - 4000 [rpm]	
Test conditions:	Load: No load / Idle	Sound test: f: P2: n:	400 [V] 50 [Hz] 0 [kW] 1500 [rpm]	

### Comments:



# Sound pressure level LpA: 44.0 [dB(A)]

Sound power level  $L_{WA}$ : 56.0 [dB(A)]

## Notes:

- Sound power values L  $_{\it WA}$  determined according to IEC 60034-9, ISO 3745 and ISO 4871.
  - Associated uncertainty K  $_{WA}$  = 3 [dB(A)]
  - "The sum of measured noise emission values and its associated uncertainty represents an upper boundary of the range of values which is likely to occur in measurements".
- Sound power evaluated at rated speed and no load as specified in IEC 60034-9.
  - "The sound power levels, under full load condition, are normally higher than those at no-load. Generally, if ventilation noise is predominant the change may be small; but, if the electromagnetic noise is predominant the change may be significant".
  - Additionally as outlined in IEC 60034-9 Amendment 1 an increase in the noise level may also occur on variable speed drives due to increased level of higher harmonics and potential coincidence between these and structural resonances.
- The equivalent sound pressure level L <sub>pA</sub> at 1 m distance are determined from the sound power level via ISO 11203 method Q2
  - The observer surface area S is given by a box shape enveloping the source and here calculated for a specified distance of 1 m between the source and the observer surface.
  - The emission sound pressure level obtained with this method represents the average sound pressure level over the surface of area S in environmental conditions approximating to a free field over a reflecting plane".

### References:

(IEC 60034-9, ISO 3745 & 4871) (IEC 60064-9; Clause 8) (ISO 4871; Section B2)

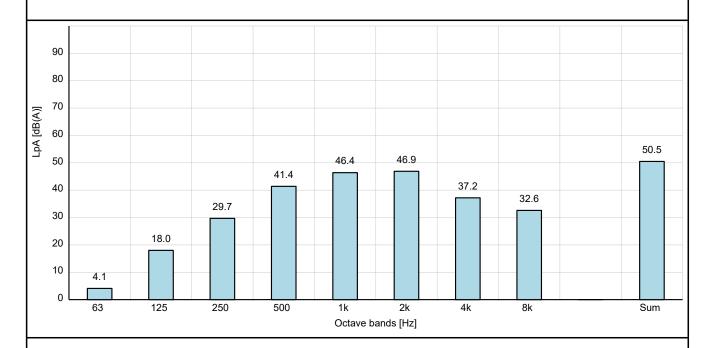
(IEC 60034; Clause 5.2) (IEC 60034-9; Clause 6, Note 2)

(IEC 60034-9 amd 1; Clause 7)

(IEC 60034; Clause 5.2)

ISO 3745				
Object:	Motor type: MLE90D	U: f: P2: n:	3 x 440-480 [V] 50/60 [Hz] 2.2 [kW] 3480 - 4000 [rpm]	
Test conditions:	Load: No load / Idle	Sound test: f: P2: n:	400 [V] 50 [Hz] 0 [kW] 2250 [rpm]	

### Comments:



# Sound pressure level LpA: 50.5 [dB(A)]

Sound power level  $L_{WA}$ : 62.5 [dB(A)]

## Notes:

- Sound power values L  $_{\it WA}$  determined according to IEC 60034-9, ISO 3745 and ISO 4871.
  - Associated uncertainty K <sub>WA</sub> = 3 [dB(A)]
  - "The sum of measured noise emission values and its associated uncertainty represents an upper boundary of the range of values which is likely to occur in measurements".
- Sound power evaluated at rated speed and no load as specified in IEC 60034-9.
  - "The sound power levels, under full load condition, are normally higher than those at no-load. Generally, if ventilation noise is predominant the change may be small; but, if the electromagnetic noise is predominant the change may be significant".
  - Additionally as outlined in IEC 60034-9 Amendment 1 an increase in the noise level may also occur on variable speed drives due to increased level of higher harmonics and potential coincidence between these and structural resonances.
- The equivalent sound pressure level L <sub>pA</sub> at 1 m distance are determined from the sound power level via ISO 11203 method Q2
  - The observer surface area S is given by a box shape enveloping the source and here calculated for a specified distance of 1 m between the source and the observer surface.
  - The emission sound pressure level obtained with this method represents the average sound pressure level over the surface of area S in environmental conditions approximating to a free field over a reflecting plane".

### References:

(IEC 60034-9, ISO 3745 & 4871) (IEC 60064-9; Clause 8) (ISO 4871; Section B2)

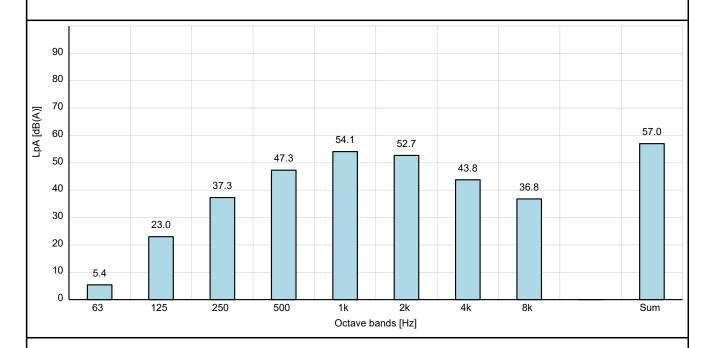
(IEC 60034; Clause 5.2) (IEC 60034-9; Clause 6, Note 2)

(IEC 60034-9 amd 1; Clause 7)

(IEC 60034; Clause 5.2)

ISO 3745				
Object:	Motor type: MLE90D	U: f: P2: n:	3 x 440-480 [V] 50/60 [Hz] 2.2 [kW] 3480 - 4000 [rpm]	
Test conditions:	Load: No load / Idle	Sound test: f: P2: n:	400 [V] 50 [Hz] 0 [kW] 3000 [rpm]	

### Comments:



# Sound pressure level LpA: 57.0 [dB(A)]

Sound power level  $L_{WA}$ : 69.5 [dB(A)]

### Notes:

- Sound power values L  $_{\it WA}$  determined according to IEC 60034-9, ISO 3745 and ISO 4871.
  - Associated uncertainty K <sub>WA</sub> = 3 [dB(A)]
  - "The sum of measured noise emission values and its associated uncertainty represents an upper boundary of the range of values which is likely to occur in measurements".
- Sound power evaluated at rated speed and no load as specified in IEC 60034-9.
  - "The sound power levels, under full load condition, are normally higher than those at no-load. Generally, if ventilation noise is predominant the change may be small; but, if the electromagnetic noise is predominant the change may be significant".
  - Additionally as outlined in IEC 60034-9 Amendment 1 an increase in the noise level may also occur on variable speed drives due to increased level of higher harmonics and potential coincidence between these and structural resonances.
- The equivalent sound pressure level L <sub>pA</sub> at 1 m distance are determined from the sound power level via ISO 11203 method Q2
  - The observer surface area S is given by a box shape enveloping the source and here calculated for a specified distance of 1 m between the source and the observer surface.
  - The emission sound pressure level obtained with this method represents the average sound pressure level over the surface of area S in environmental conditions approximating to a free field over a reflecting plane".

## References:

(IEC 60034-9, ISO 3745 & 4871) (IEC 60064-9; Clause 8) (ISO 4871; Section B2)

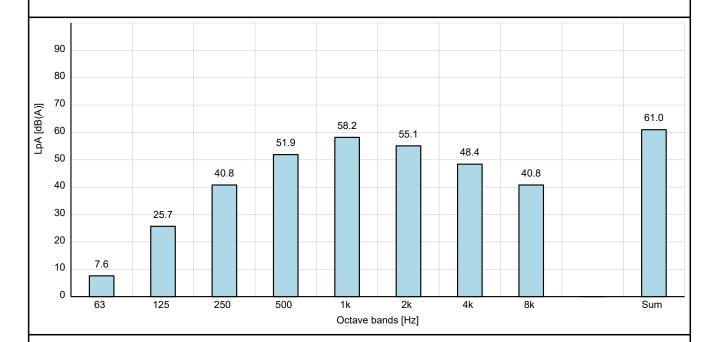
(IEC 60034; Clause 5.2) (IEC 60034-9; Clause 6, Note 2)

(IEC 60034-9 amd 1; Clause 7)

(IEC 60034; Clause 5.2)

ISO 3745				
Object:	Motor type: MLE90D	U: f: P2: n:	3 x 440-480 [V] 50/60 [Hz] 2.2 [kW] 3480 - 4000 [rpm]	
Test conditions:	Load: No load / Idle	Sound test: f: P2: n:	400 [V] 50 [Hz] 0 [kW] 3600 [rpm]	

### Comments:



# Sound pressure level LpA: 61.0 [dB(A)]

Sound power level  $L_{WA}$ : 73.0 [dB(A)]

## Notes:

- Sound power values L  $_{\it WA}$  determined according to IEC 60034-9, ISO 3745 and ISO 4871.
  - Associated uncertainty K <sub>WA</sub> = 3 [dB(A)]
  - "The sum of measured noise emission values and its associated uncertainty represents an upper boundary of the range of values which is likely to occur in measurements".
- Sound power evaluated at rated speed and no load as specified in IEC 60034-9.
  - "The sound power levels, under full load condition, are normally higher than those at no-load. Generally, if ventilation noise is predominant the change may be small; but, if the electromagnetic noise is predominant the change may be significant".
  - Additionally as outlined in IEC 60034-9 Amendment 1 an increase in the noise level may also occur on variable speed drives due to increased level of higher harmonics and potential coincidence between these and structural resonances.
- The equivalent sound pressure level L <sub>pA</sub> at 1 m distance are determined from the sound power level via ISO 11203 method Q2
  - The observer surface area S is given by a box shape enveloping the source and here calculated for a specified distance of 1 m between the source and the observer surface.
  - The emission sound pressure level obtained with this method represents the average sound pressure level over the surface of area S in environmental conditions approximating to a free field over a reflecting plane".

## References:

(IEC 60034-9, ISO 3745 & 4871) (IEC 60064-9; Clause 8) (ISO 4871; Section B2)

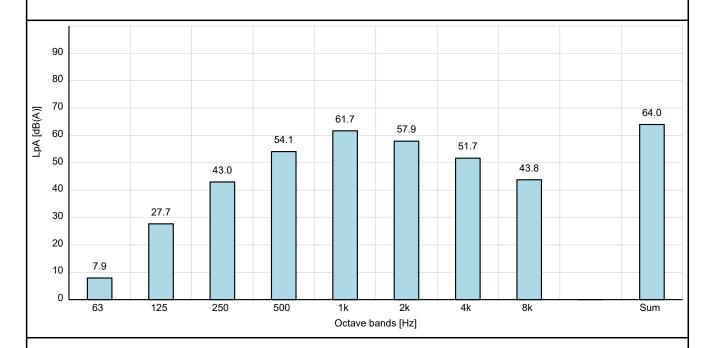
(IEC 60034; Clause 5.2) (IEC 60034-9; Clause 6, Note 2)

(IEC 60034-9 amd 1; Clause 7)

(IEC 60034; Clause 5.2)

ISO 3745				
Object:	Motor type: MLE90D	U: f: P2: n:	3 x 440-480 [V] 50/60 [Hz] 2.2 [kW] 3480 - 4000 [rpm]	
Test conditions:	Load: No load / Idle	Sound test: f: P2: n:	400 [V] 50 [Hz] 0 [kW] 4000 [rpm]	

### Comments:



# Sound pressure level LpA: 64.0 [dB(A)]

Sound power level  $L_{WA}$ : 76.0 [dB(A)]

### Notes:

- Sound power values L  $_{\it WA}$  determined according to IEC 60034-9, ISO 3745 and ISO 4871.
  - Associated uncertainty K <sub>WA</sub> = 3 [dB(A)]
  - "The sum of measured noise emission values and its associated uncertainty represents an upper boundary of the range of values which is likely to occur in measurements".
- Sound power evaluated at rated speed and no load as specified in IEC 60034-9.
  - "The sound power levels, under full load condition, are normally higher than those at no-load. Generally, if ventilation noise is predominant the change may be small; but, if the electromagnetic noise is predominant the change may be significant".
  - Additionally as outlined in IEC 60034-9 Amendment 1 an increase in the noise level may also occur on variable speed drives due to increased level of higher harmonics and potential coincidence between these and structural resonances.
- The equivalent sound pressure level L <sub>pA</sub> at 1 m distance are determined from the sound power level via ISO 11203 method Q2
  - The observer surface area S is given by a box shape enveloping the source and here calculated for a specified distance of 1 m between the source and the observer surface.
  - The emission sound pressure level obtained with this method represents the average sound pressure level over the surface of area S in environmental conditions approximating to a free field over a reflecting plane".

## References:

(IEC 60034-9, ISO 3745 & 4871) (IEC 60064-9; Clause 8) (ISO 4871; Section B2)

(IEC 60034; Clause 5.2) (IEC 60034-9; Clause 6, Note 2)

(IEC 60034-9 amd 1; Clause 7)

(IEC 60034; Clause 5.2)