

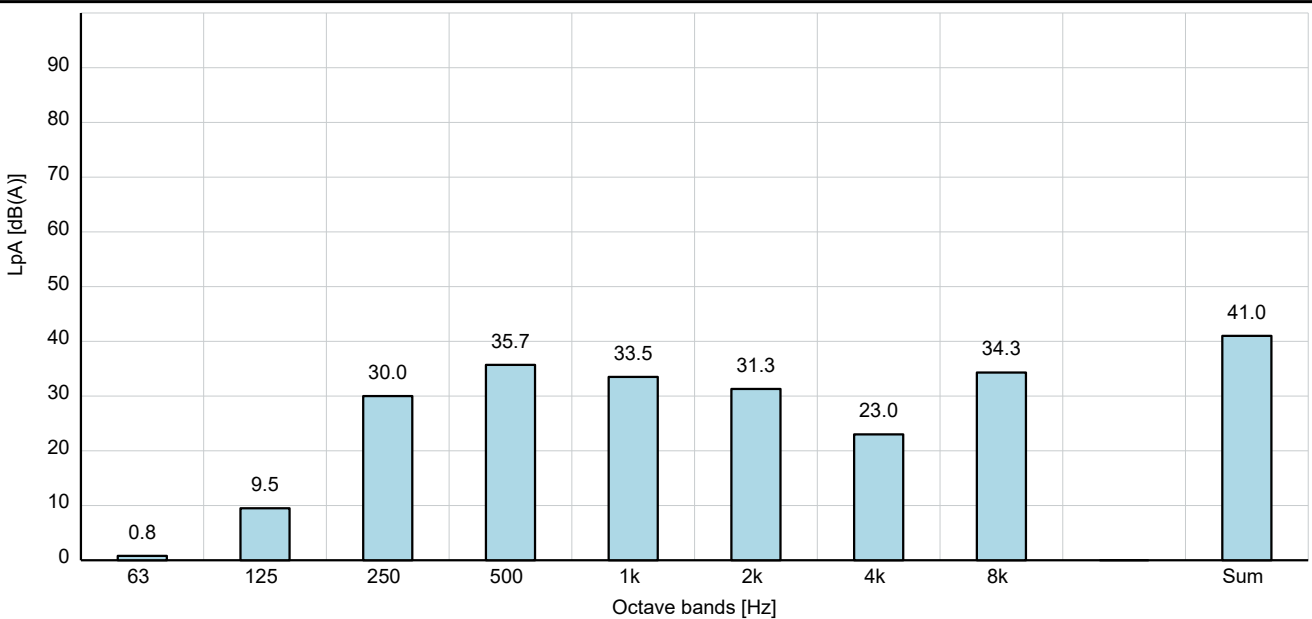
# SOUND MEASUREMENT REPORT

## ISO 3745

<b>Object:</b>	Motor type: MGE132MH	U:	3 x 380-500 [V]
		f:	50/60 [Hz]
		P2:	7.5 [kW]
		n:	1450-2200 [rpm]

<b>Test conditions:</b>	Load: No load / Idle	Sound test:	400 [V]
		f:	50 [Hz]
		P2:	0 [kW]
		n:	750 [rpm]

**Comments:**



**Sound pressure level  $L_{pA}$  : 41.0 [dB(A)]**

Sound power level  $L_{WA}$  : 53.5 [dB(A)]

**Notes:**

- Sound power values  $L_{WA}$  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  $L_{pA}$  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)
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- (ISO 11203; Clause 6.2.3)

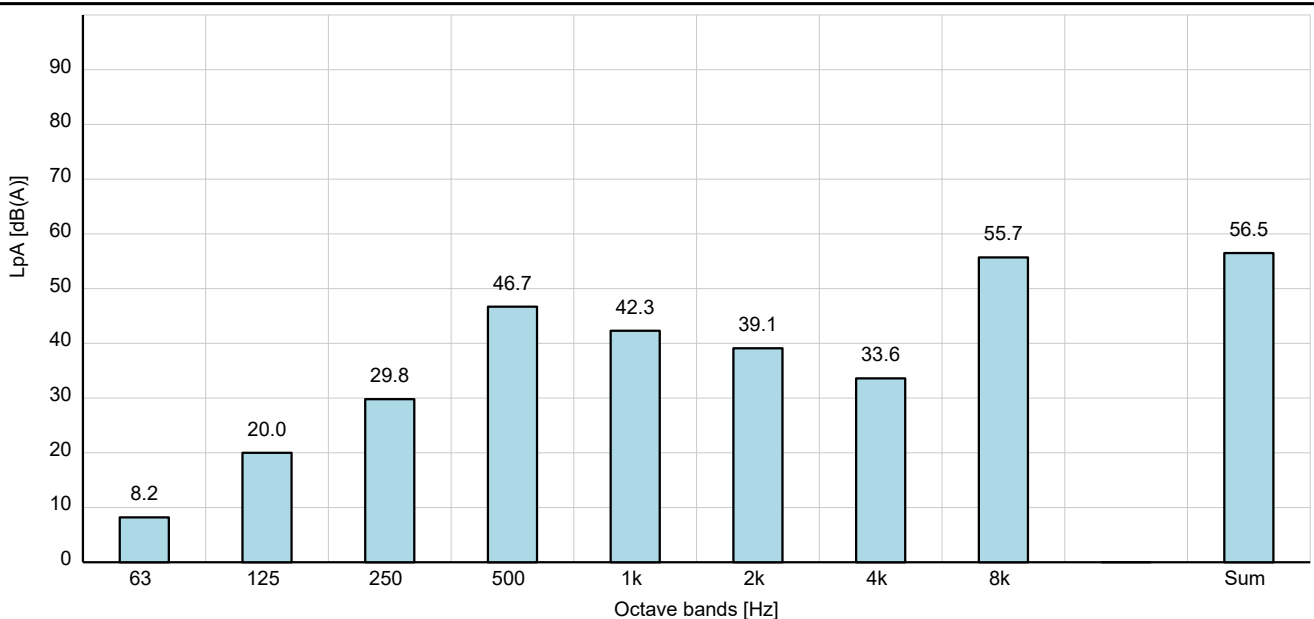
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		f:	50/60 [Hz]
		P2:	7.5 [kW]
		n:	1450-2200 [rpm]

<b>Test conditions:</b>	Load: No load / Idle	Sound test:	400 [V]
		f:	50 [Hz]
		P2:	0 [kW]
		n:	1125 [rpm]

**Comments:**



**Sound pressure level  $L_{pA}$  : 56.5 [dB(A)]**

Sound power level  $L_{WA}$  : 69.0 [dB(A)]

**Notes:**

- Sound power values  $L_{WA}$  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.
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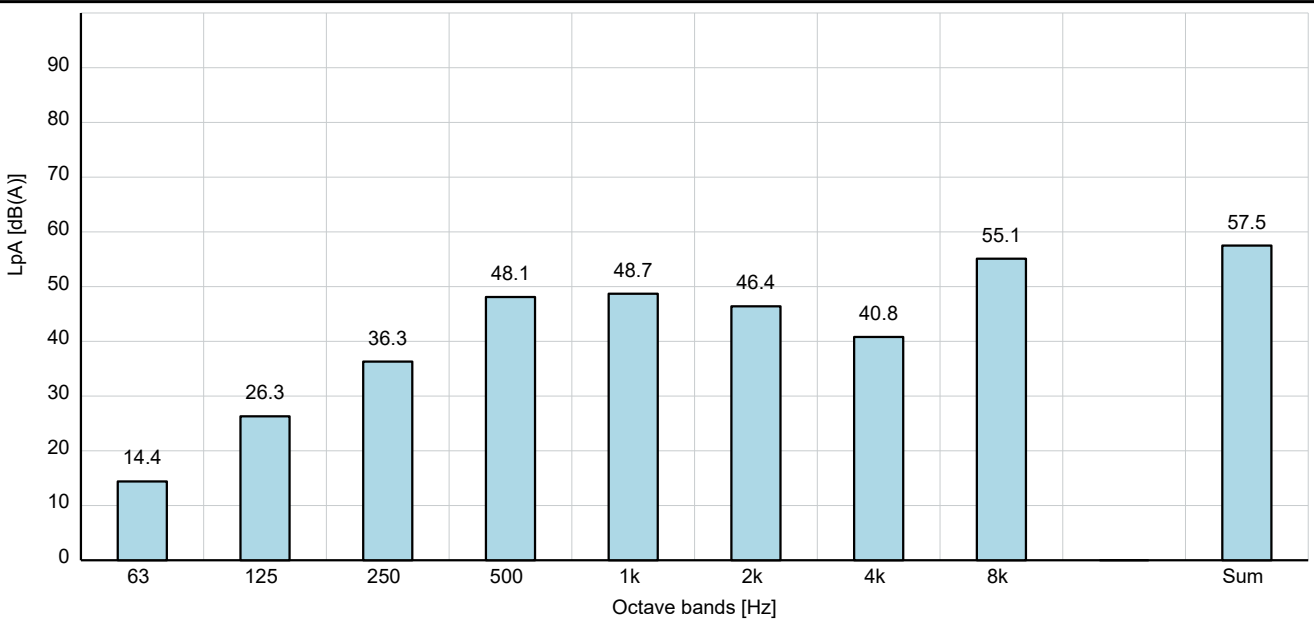
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## ISO 3745

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		f:	50/60 [Hz]
		P2:	7.5 [kW]
		n:	1450-2200 [rpm]

<b>Test conditions:</b>	Load: No load / Idle	Sound test:	400 [V]
		f:	50 [Hz]
		P2:	0 [kW]
		n:	1500 [rpm]

**Comments:**



**Sound pressure level L<sub>pA</sub> : 57.5 [dB(A)]**

Sound power level L<sub>WA</sub> : 69.5 [dB(A)]

**Notes:**

- Sound power values L<sub>WA</sub> 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.
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- 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".

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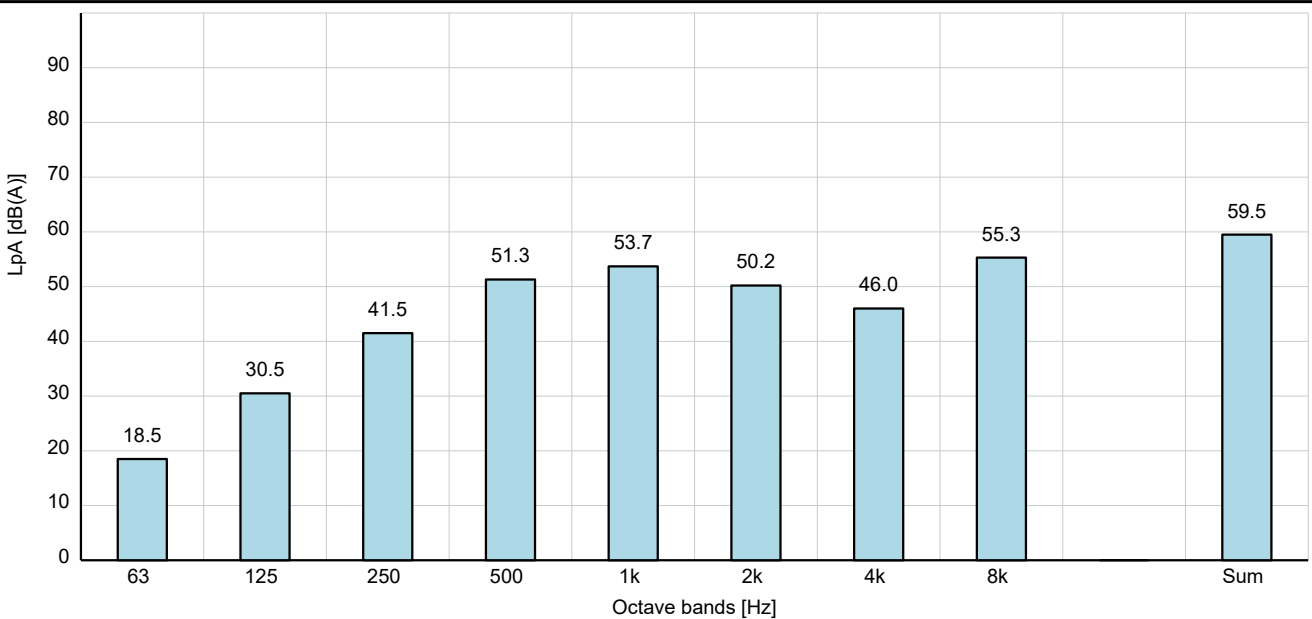
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<b>Object:</b>	Motor type: MGE132MH	U:	3 x 380-500 [V]
		f:	50/60 [Hz]
		P2:	7.5 [kW]
		n:	1450-2200 [rpm]

<b>Test conditions:</b>	Load: No load / Idle	Sound test:	400 [V]
		f:	50 [Hz]
		P2:	0 [kW]
		n:	1800 [rpm]

**Comments:**



**Sound pressure level  $L_{pA}$  : 59.5 [dB(A)]**

Sound power level  $L_{WA}$  : 72.0 [dB(A)]

**Notes:**

- Sound power values  $L_{WA}$  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.
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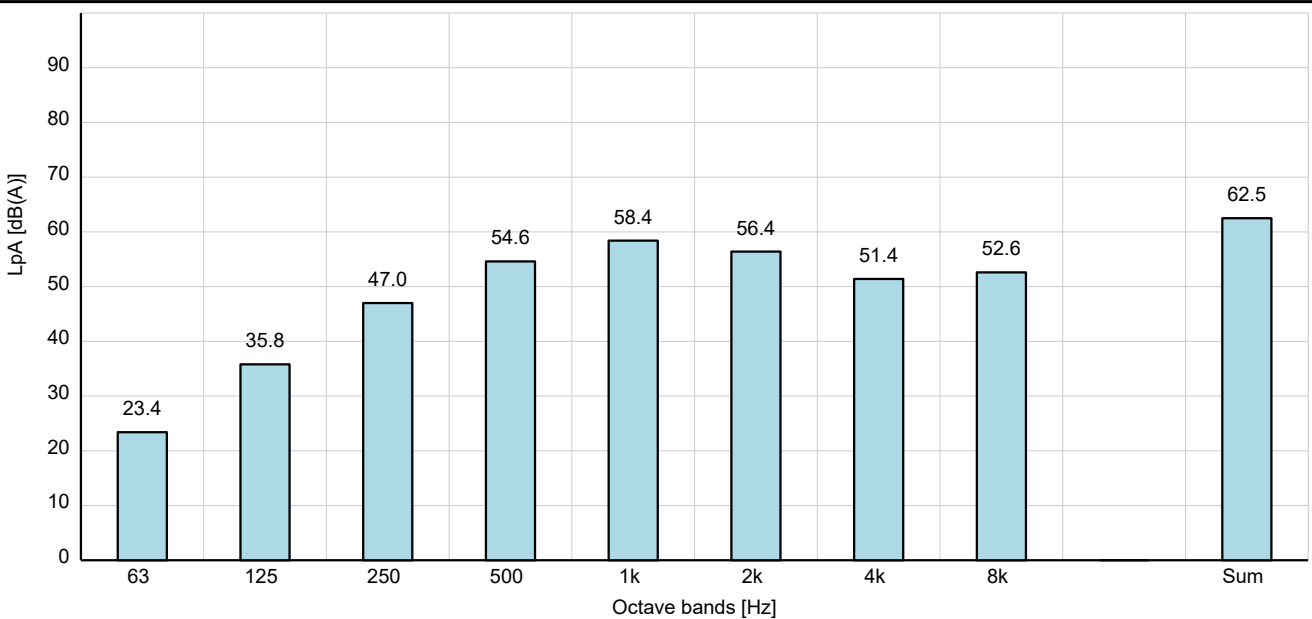
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		f:	50/60 [Hz]
		P2:	7.5 [kW]
		n:	1450-2200 [rpm]

<b>Test conditions:</b>	Load: No load / Idle	Sound test:	400 [V]
		f:	50 [Hz]
		P2:	0 [kW]
		n:	2200 [rpm]

**Comments:**



**Sound pressure level  $L_{pA}$  : 62.5 [dB(A)]**

Sound power level  $L_{WA}$  : 75.0 [dB(A)]

**Notes:**

- Sound power values  $L_{WA}$  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.
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