

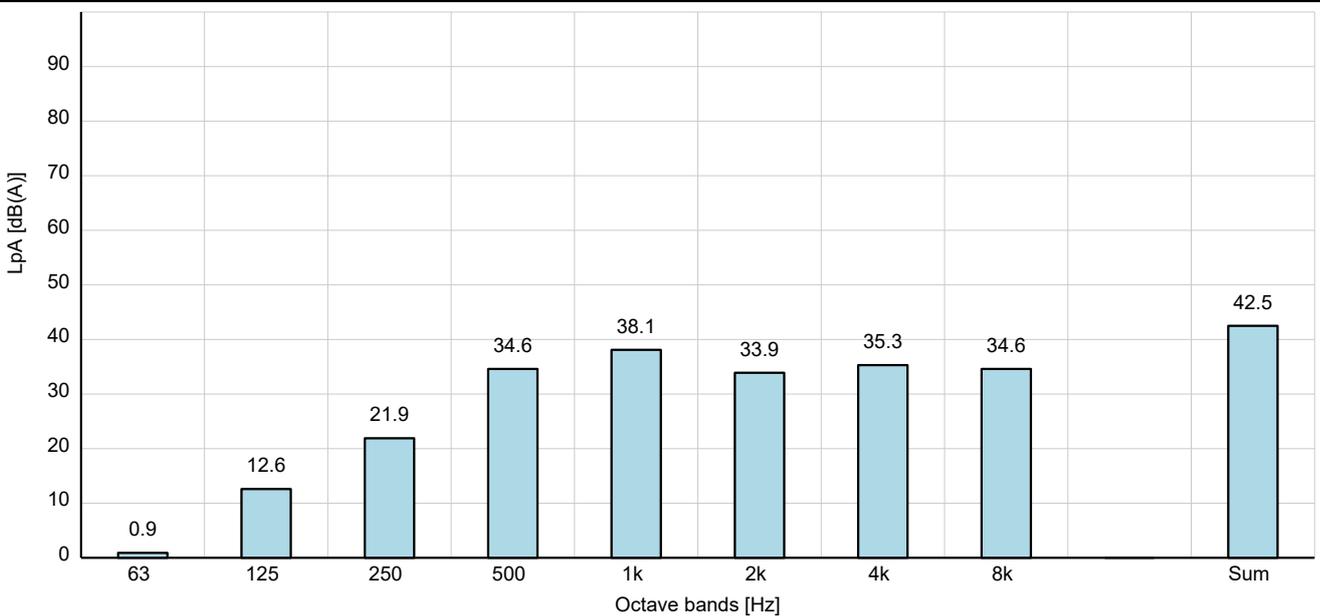
SOUND MEASUREMENT REPORT

ISO 3745

Object:	Motor type: MGE90LC	U:	3 x 380-500 [V]
		f:	50/60 [Hz]
		P2:	3 [HP]
		n:	4000 - 5900 [rpm]

Test conditions:	Load: No load / Idle	Sound test:	400 [V]
		f:	60 [Hz]
		P2:	0 [HP]
		n:	2000 [rpm]

Comments:



Sound pressure level L_{pA} : 42.5 [dB(A)]

Sound power level L_{WA} : 54.5 [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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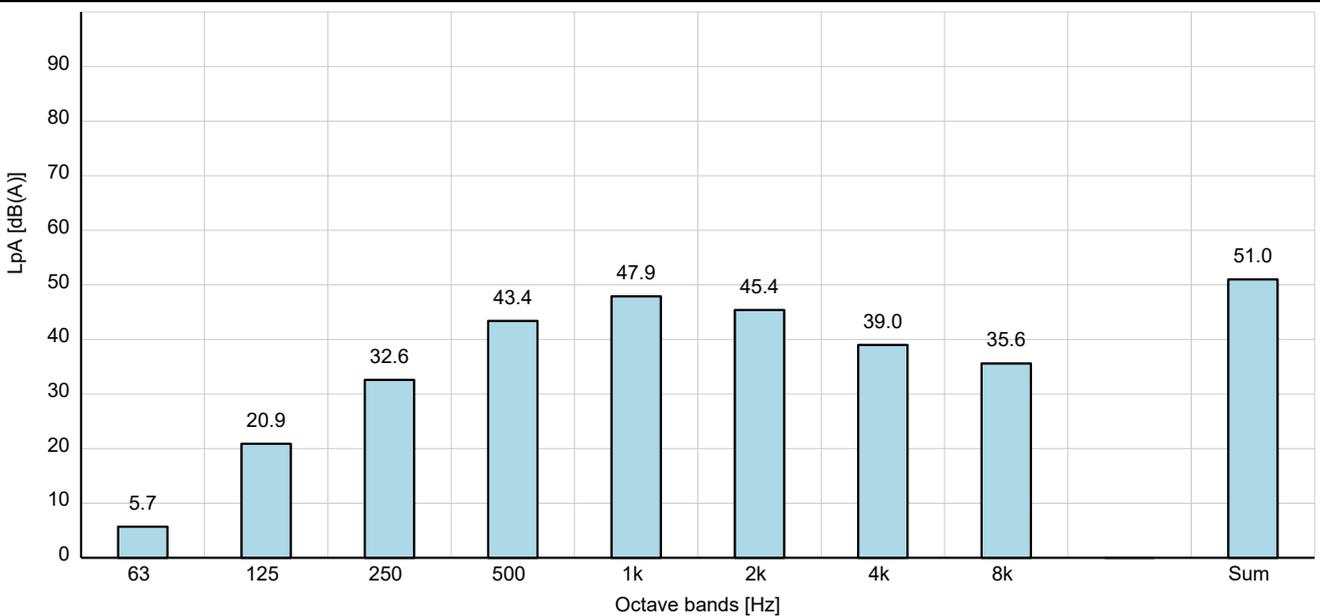
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		f:	50/60 [Hz]
		P2:	3 [HP]
		n:	4000 - 5900 [rpm]

Test conditions:	Load: No load / Idle	Sound test:	400 [V]
		f:	60 [Hz]
		P2:	0 [HP]
		n:	3100 [rpm]

Comments:



Sound pressure level L_{pA} : 51.0 [dB(A)]

Sound power level L_{WA} : 63.5 [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".
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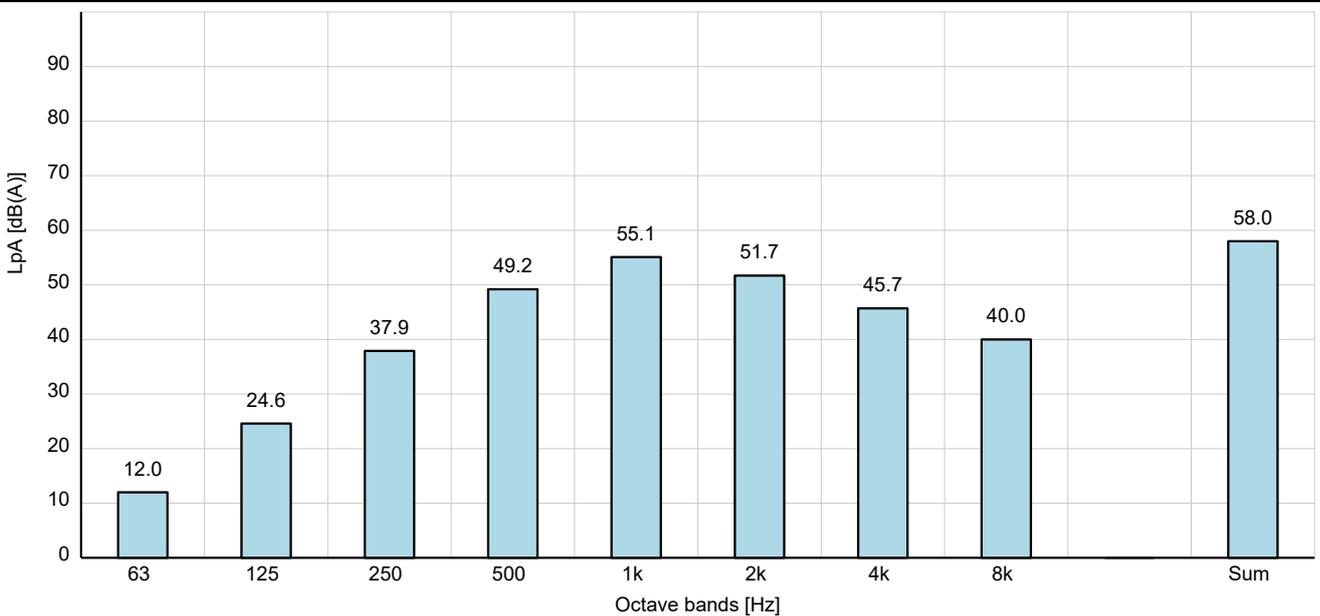
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		f:	50/60 [Hz]
		P2:	3 [HP]
		n:	4000 - 5900 [rpm]

Test conditions:	Load: No load / Idle	Sound test:	400 [V]
		f:	60 [Hz]
		P2:	0 [HP]
		n:	4000 [rpm]

Comments:



Sound pressure level L_{pA} : 58.0 [dB(A)]

Sound power level L_{WA} : 70.0 [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".
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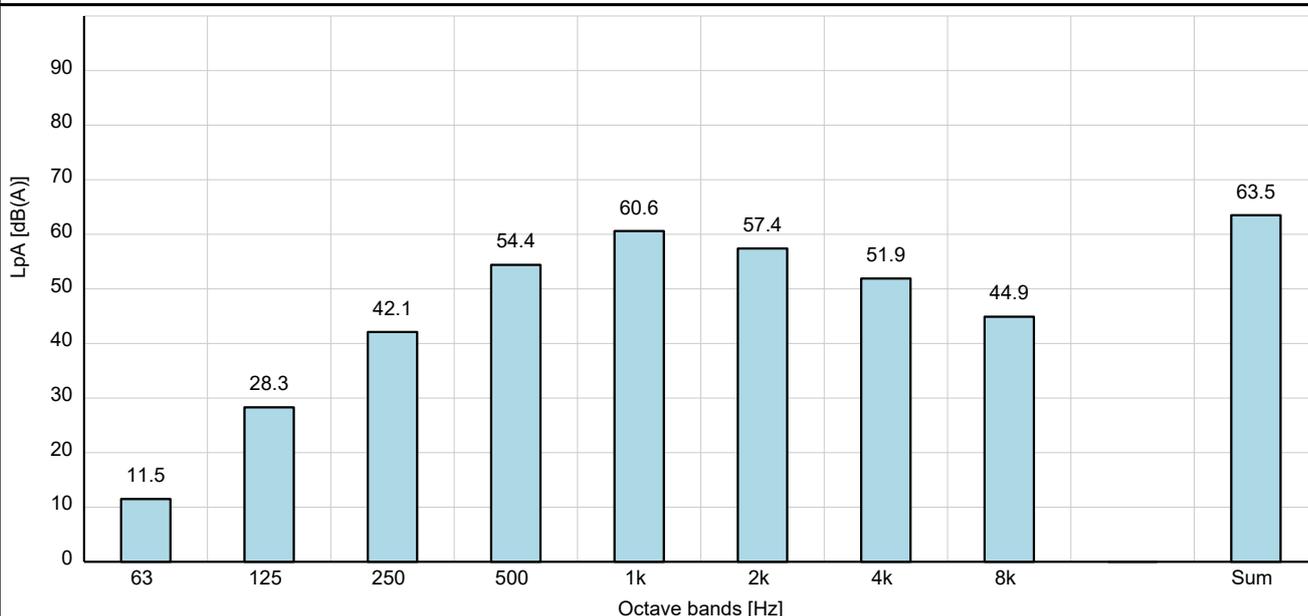
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		f:	50/60 [Hz]
		P2:	3 [HP]
		n:	4000 - 5900 [rpm]

Test conditions:	Load: No load / Idle	Sound test:	400 [V]
		f:	60 [Hz]
		P2:	0 [HP]
		n:	4850 [rpm]

Comments:



Sound pressure level L_{pA} : 63.5 [dB(A)]

Sound power level L_{WA} : 75.5 [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".
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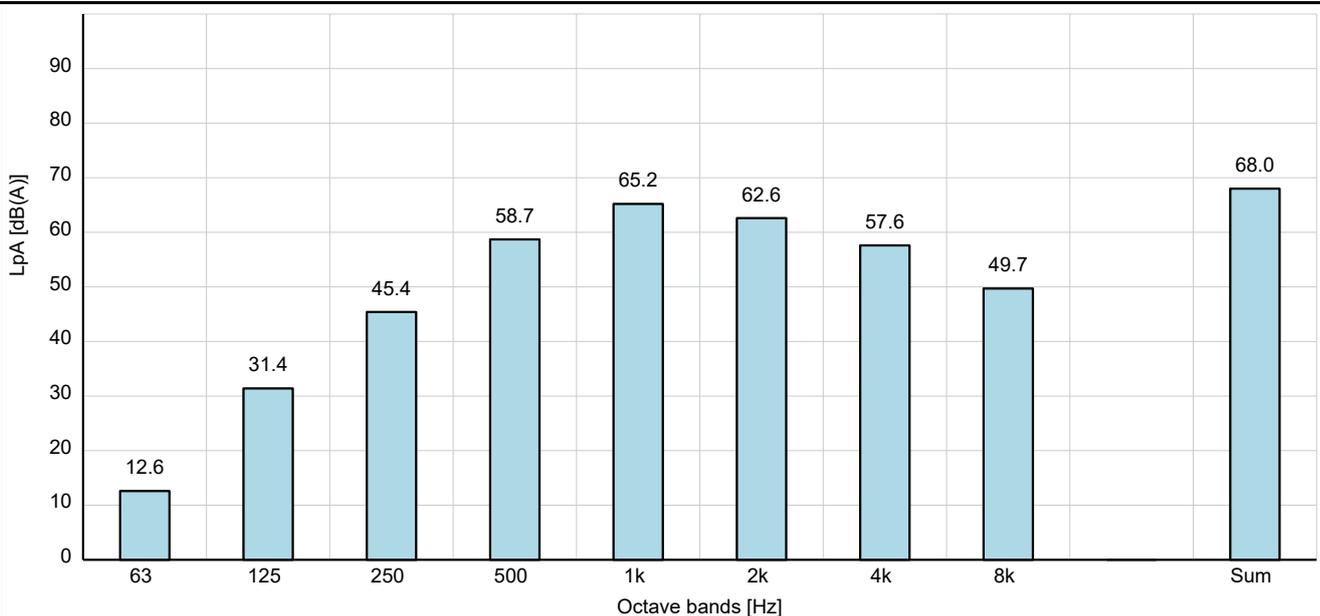
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		f:	50/60 [Hz]
		P2:	3 [HP]
		n:	4000 - 5900 [rpm]

Test conditions:	Load: No load / Idle	Sound test:	400 [V]
		f:	60 [Hz]
		P2:	0 [HP]
		n:	5900 [rpm]

Comments:



Sound pressure level L_{pA} : 68.0 [dB(A)]

Sound power level L_{WA} : 80.5 [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)]
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