

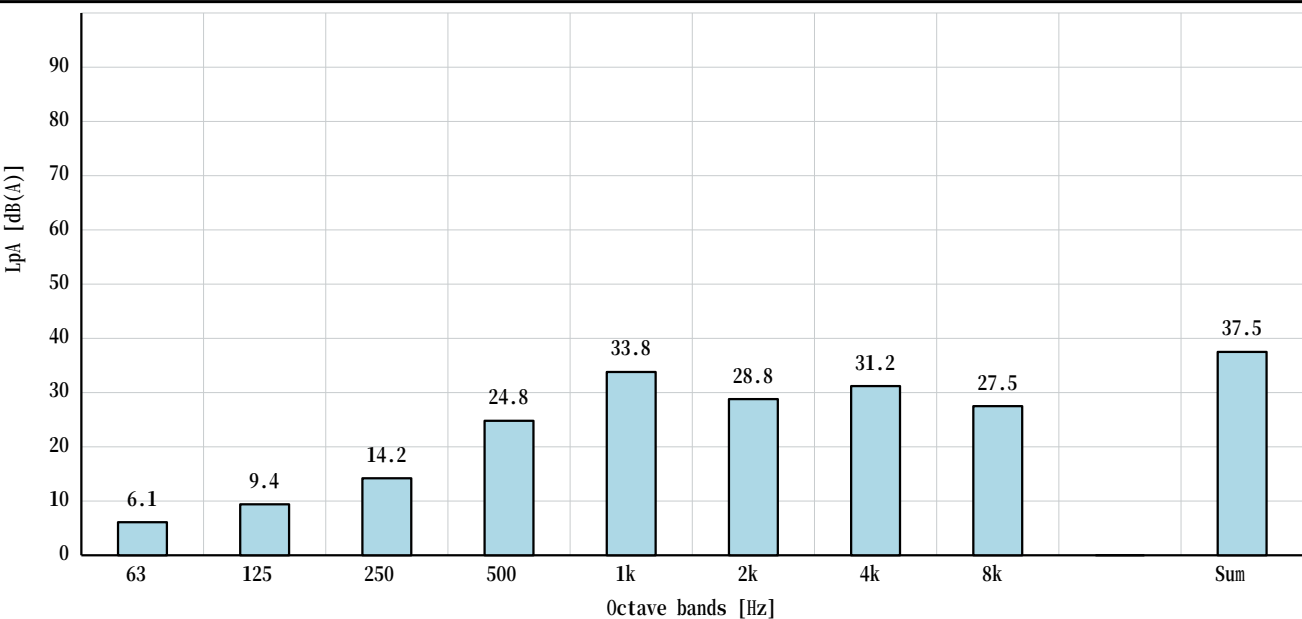
声音测量报告

ISO 3745

目标: 电机类型: MGE71A 电压 (U): 200-240 [V]
f: 50/60 [Hz]
P2: 0.55 [千瓦]
n: 2900 - 4000 [转数/分钟]

测试条件: Load: No load / Idle Sound test: 230 [V]
f: 50 [Hz]
P2: 0 [千瓦]
n: 1500 [转数/分钟]

批注:



Sound pressure level L_{pA} : 37.5 [dB(A)]

Sound power level L_{WA} : 49.5 [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)] (IEC 60064-9; Clause 8)
 - “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” . (ISO 4871; Section B2)
- Sound power evaluated at rated speed and no load as specified in IEC 60034-9. (IEC 60034; Clause 5.2)
 - “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” . (IEC 60034-9; Clause 6, Note 2)
 - 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. (IEC 60034-9 and 1; Clause 7)
- The equivalent sound pressure level L_{pA} at 1 m distance are determined from the sound power level via ISO 11203 method Q2 (IEC 60034; Clause 5.2)
 - 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” . (ISO 11203; Clause 6.2.3)

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测试条件:	Load: No load / Idle	Sound test: f: P2: n:	230 [V] 50 [Hz] 0 [千瓦] 2250 [转数/分钟]
批注:			
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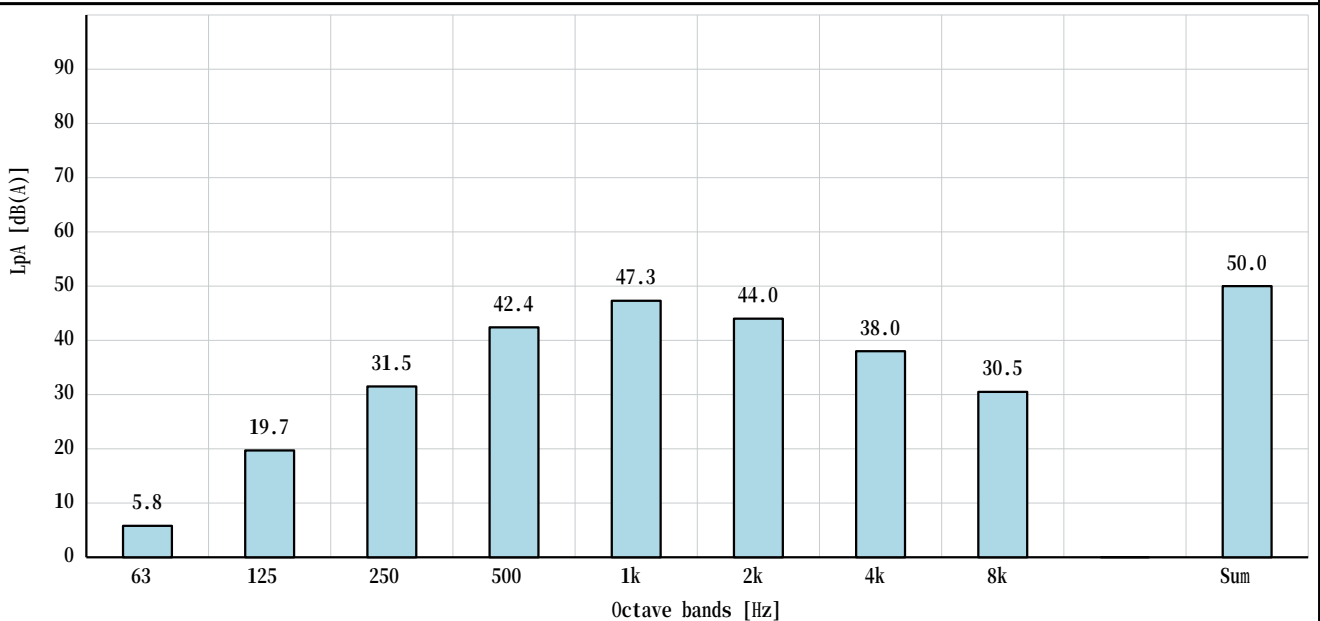
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P2: 0.55 [千瓦]
n: 2900 - 4000 [转数/分钟]

测试条件: Load: No load / Idle Sound test: 230 [V]
f: 50 [Hz]
P2: 0 [千瓦]
n: 3000 [转数/分钟]

批注:



Sound pressure level L_{pA} : 50.0 [dB(A)]

Sound power level L_{WA} : 62.5 [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)] (IEC 60064-9; Clause 8)
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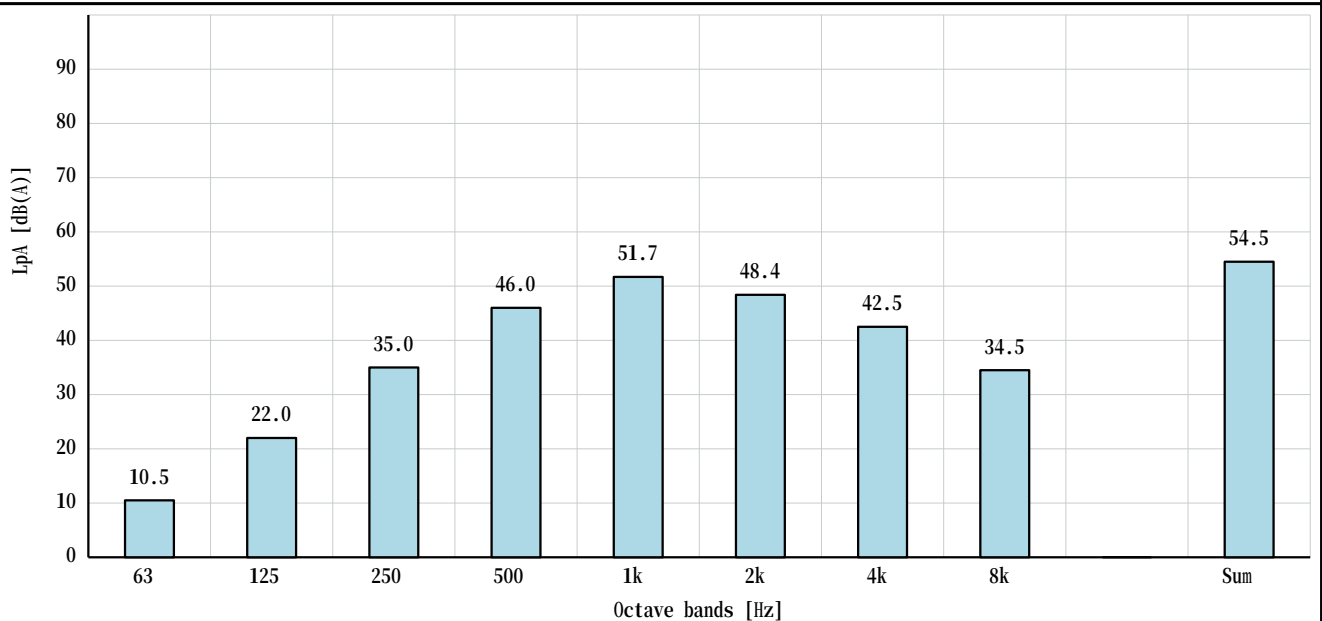
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n: 2900 - 4000 [转数/分钟]

测试条件: Load: No load / Idle Sound test: 230 [V]
f: 50 [Hz]
P2: 0 [千瓦]
n: 3600 [转数/分钟]

批注:



Sound pressure level L_{pA} : 54.5 [dB(A)]

Sound power level L_{WA} : 66.5 [dB(A)]

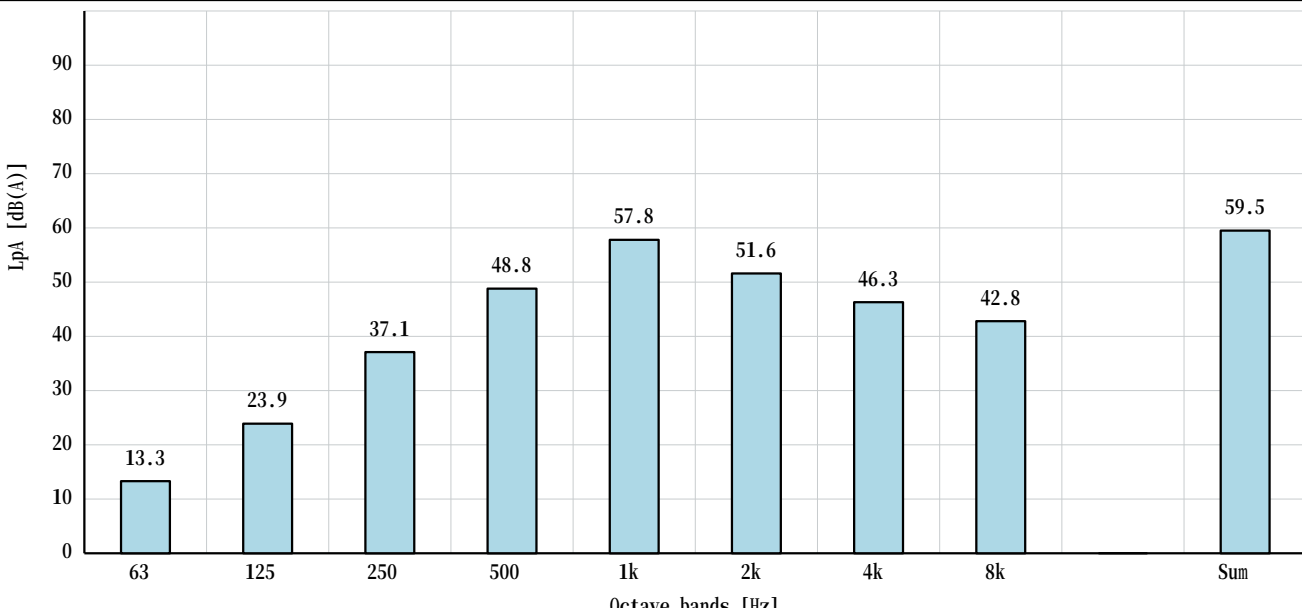
Notes:

- 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.

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)
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 <table><tr><th>Octave bands [Hz]</th><th>LpA [dB(A)]</th></tr><tr><td>63</td><td>13.3</td></tr><tr><td>125</td><td>23.9</td></tr><tr><td>250</td><td>37.1</td></tr><tr><td>500</td><td>48.8</td></tr><tr><td>1k</td><td>57.8</td></tr><tr><td>2k</td><td>51.6</td></tr><tr><td>4k</td><td>46.3</td></tr><tr><td>8k</td><td>42.8</td></tr><tr><td>Sum</td><td>59.5</td></tr></table>				Octave bands [Hz]	LpA [dB(A)]	63	13.3	125	23.9	250	37.1	500	48.8	1k	57.8	2k	51.6	4k	46.3	8k	42.8	Sum	59.5
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