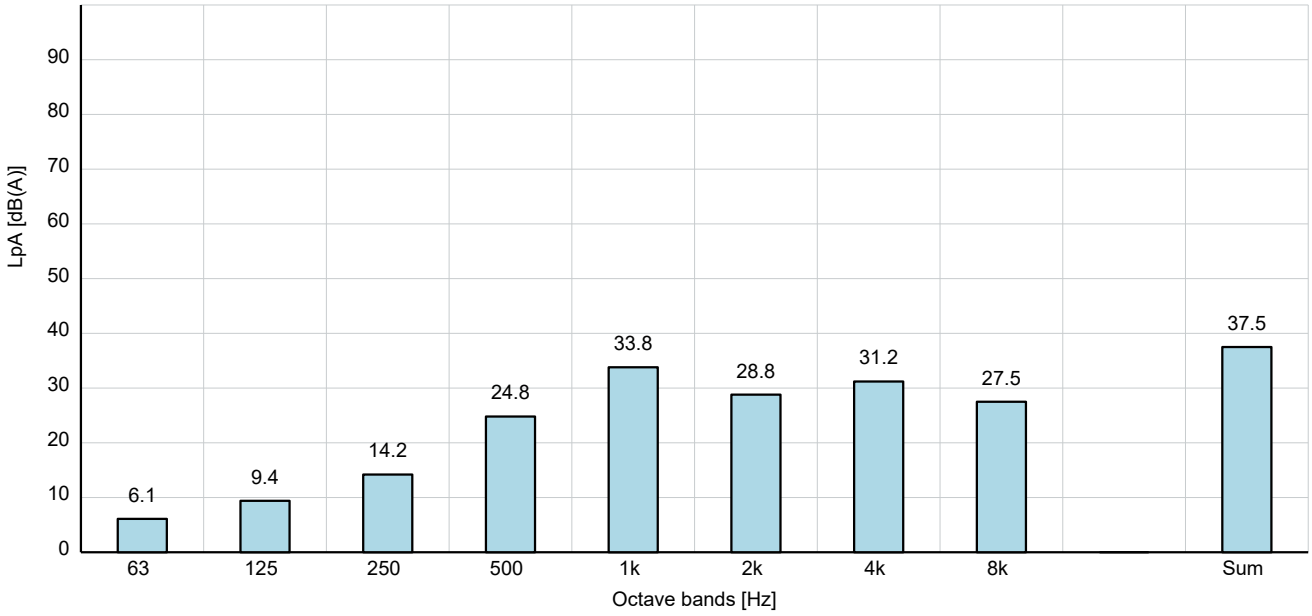
SOUND MEASUREMENT REPORT

ISO 3745

Object:	Motor type: MLE71A	U:	200-240 [V]
		f:	50/60 [Hz]
		P2:	0.55 [kW]
		n:	2900 - 4000 [rpm]
Test conditions:	Load: No load / Idle	Sound test:	230 [V]
		f:	60 [Hz]
		P2:	0 [kW]
		n:	1500 [rpm]

Comments:



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.* — *(IEC 60034-9, ISO 3745 & 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 amd 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)*

References:

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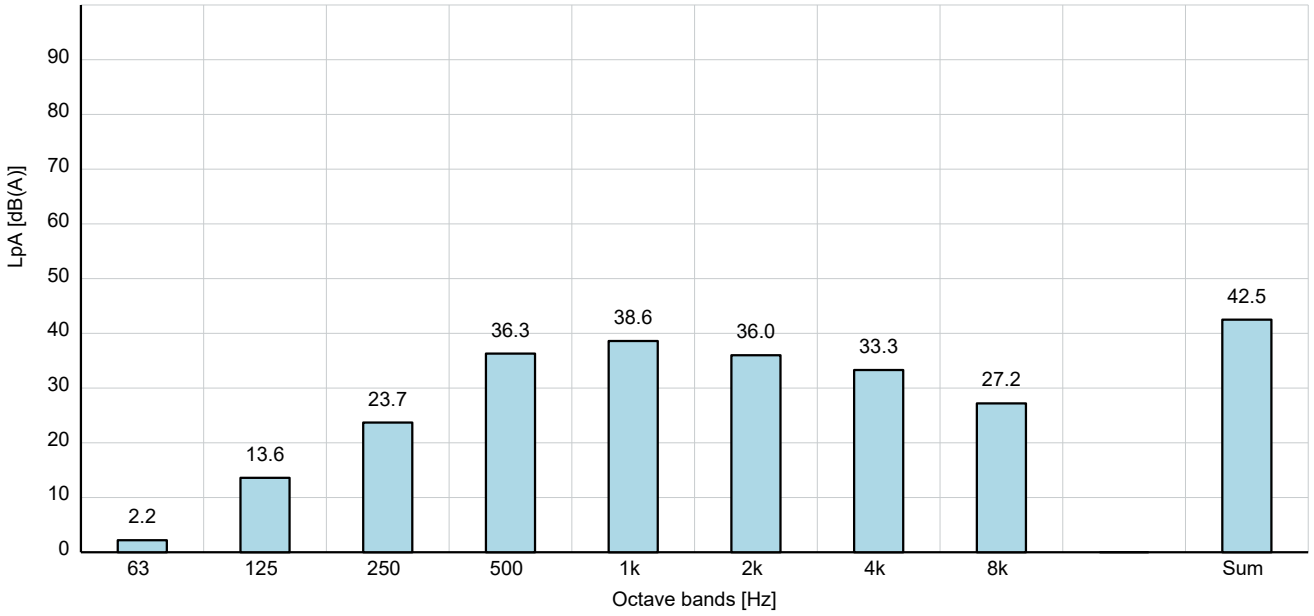
Object:	Motor type: MLE71A	U:	200-240 [V]
		f:	50/60 [Hz]
		P2:	0.55 [kW]
		n:	2900 - 4000 [rpm]
Test conditions:	Load: No load / Idle	Sound test:	230 [V]
		f:	60 [Hz]
		P2:	0 [kW]
		n:	2250 [rpm]

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.* — *(IEC 60034-9, ISO 3745 & 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)*
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- *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)*

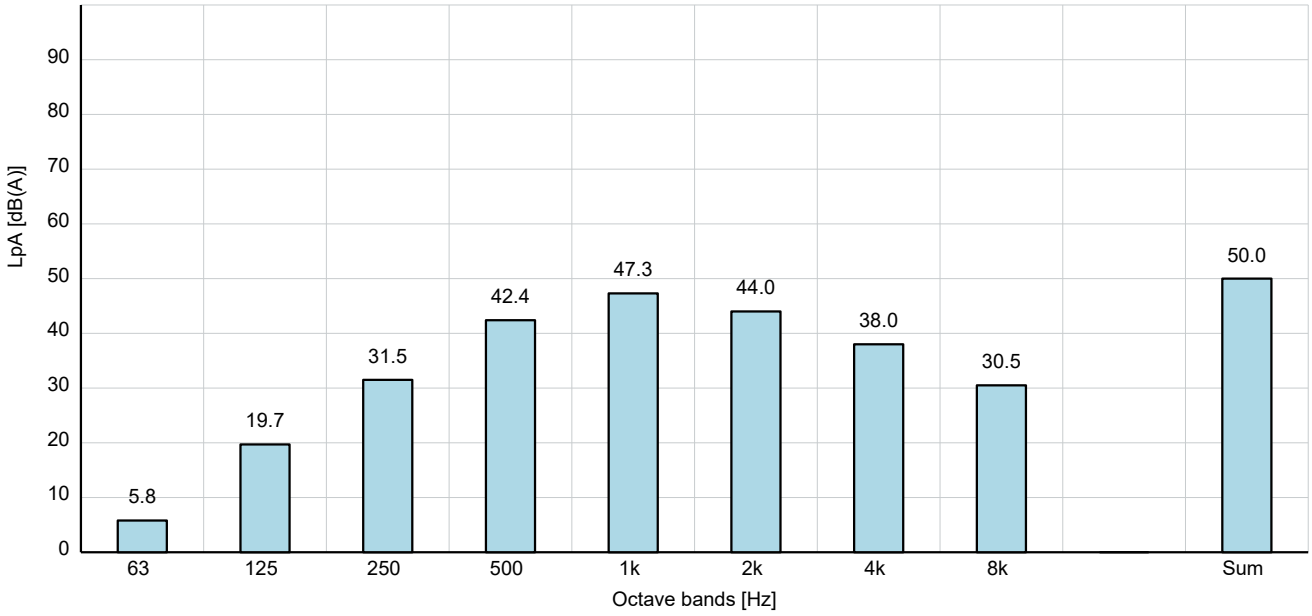
References:

SOUND MEASUREMENT REPORT

ISO 3745

Object:	Motor type: MLE71A	U:	200-240 [V]
		f:	50/60 [Hz]
		P2:	0.55 [kW]
		n:	2900 - 4000 [rpm]
Test conditions:	Load: No load / Idle	Sound test:	230 [V]
		f:	60 [Hz]
		P2:	0 [kW]
		n:	3000 [rpm]

Comments:



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.* — *(IEC 60034-9, ISO 3745 & 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 amd 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)*
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  - *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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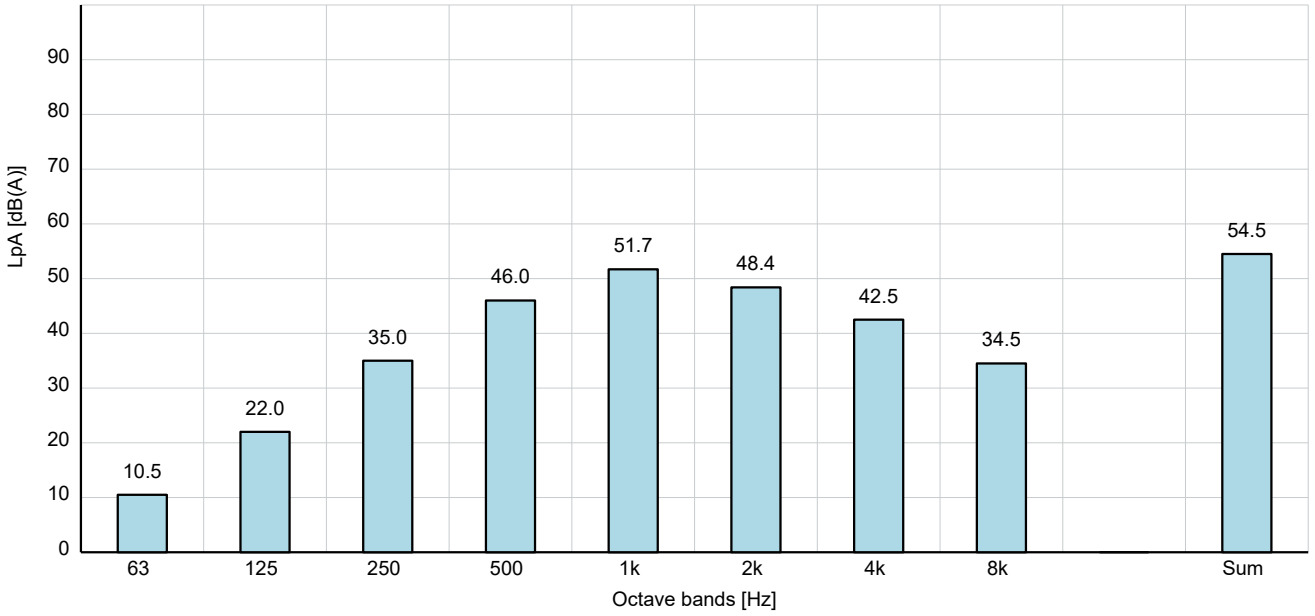
Object:	Motor type: MLE71A	U:	200-240 [V]
		f:	50/60 [Hz]
		P2:	0.55 [kW]
		n:	2900 - 4000 [rpm]
Test conditions:	Load: No load / Idle	Sound test:	230 [V]
		f:	60 [Hz]
		P2:	0 [kW]
		n:	3600 [rpm]

Comments:



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.* — *(IEC 60034-9, ISO 3745 & 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)*
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  - *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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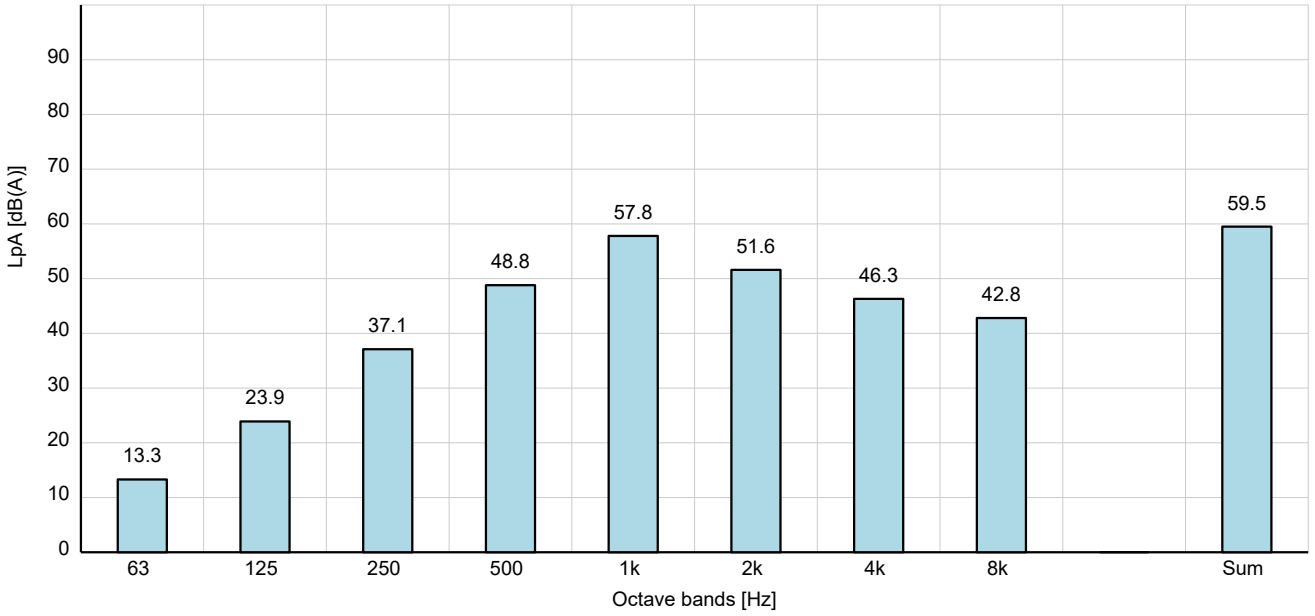
Object:	Motor type: MLE71A	U:	200-240 [V]
		f:	50/60 [Hz]
		P2:	0.55 [kW]
		n:	2900 - 4000 [rpm]
Test conditions:	Load: No load / Idle	Sound test:	230 [V]
		f:	60 [Hz]
		P2:	0 [kW]
		n:	4000 [rpm]

Comments:



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

Sound power level L_{WA} : 71.5 [dB(A)]

Notes:

- *Sound power values L_{WA} determined according to IEC 60034-9, ISO 3745 and ISO 4871.* — *(IEC 60034-9, ISO 3745 & 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)*
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