

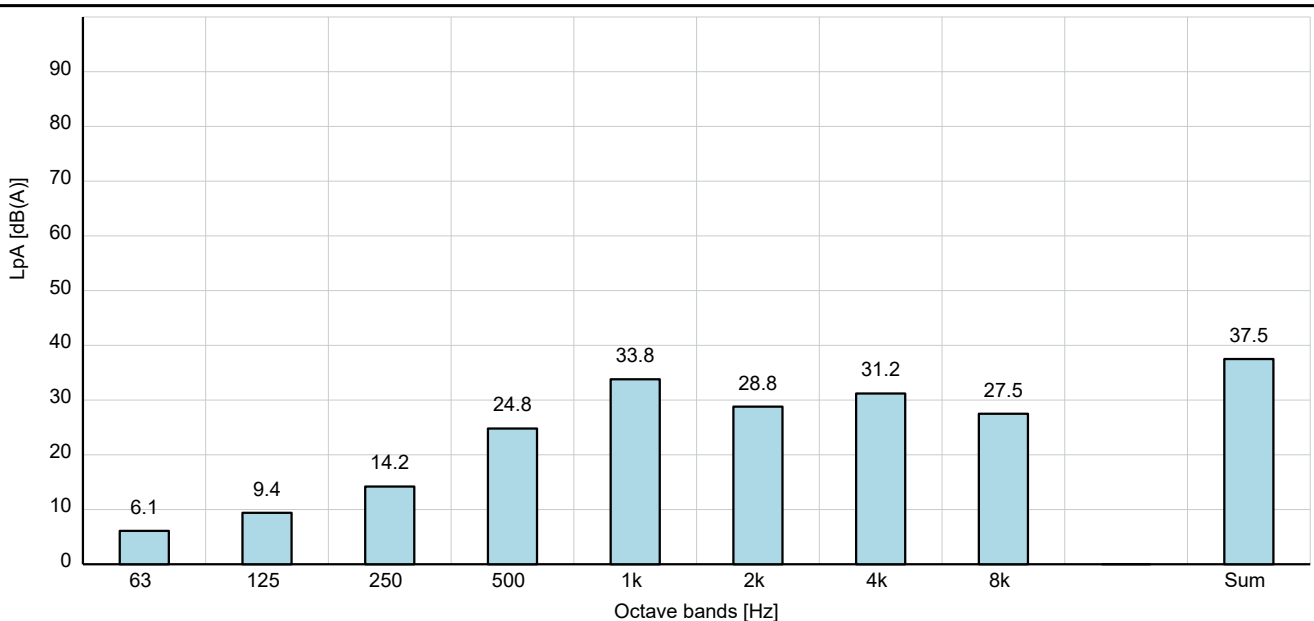
# ПРОТОКОЛ ЗВУКОМЕТРІЇ

## ISO 3745

**Object:** Тип електродвигуна: MGE80B  
 U: 3 x 380-500 [В]  
 f: 50/60 [Hz]  
 P2: 1.1 [кВт]  
 n: 2900 - 4000 [об./хв]

**Умови випробувань:** Load: No load / Idle  
 Sound test: 400 [В]  
 f: 50 [Hz]  
 P2: 0 [кВт]  
 n: 1500 [об./хв]

### Пояснення:



**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)]
  - "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)
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- (ISO 11203; Clause 6.2.3)

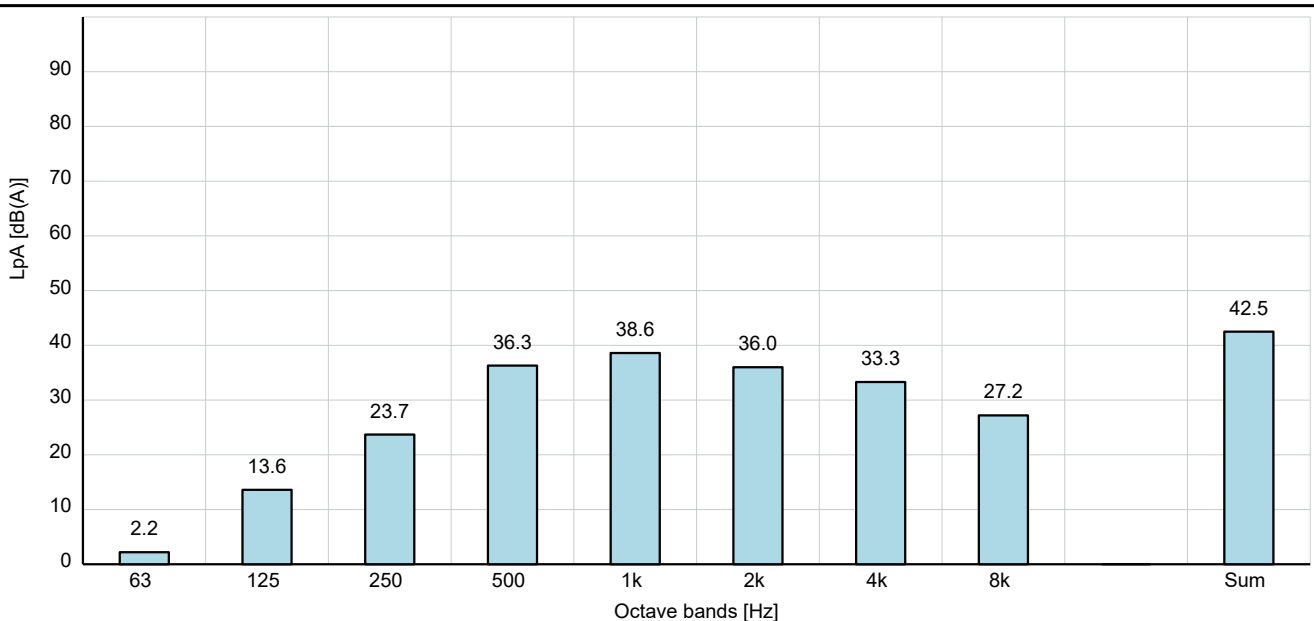
# ПРОТОКОЛ ЗВУКОМЕТРІЇ

## ISO 3745

**Object:** Тип електродвигуна: MGE80B  
 U: 3 x 380-500 [В]  
 f: 50/60 [Hz]  
 P2: 1.1 [кВт]  
 n: 2900 - 4000 [об./хв]

**Умови випробувань:** Load: No load / Idle  
 Sound test: 400 [В]  
 f: 50 [Hz]  
 P2: 0 [кВт]  
 n: 2250 [об./хв]

### Пояснення:



**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".
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## ISO 3745

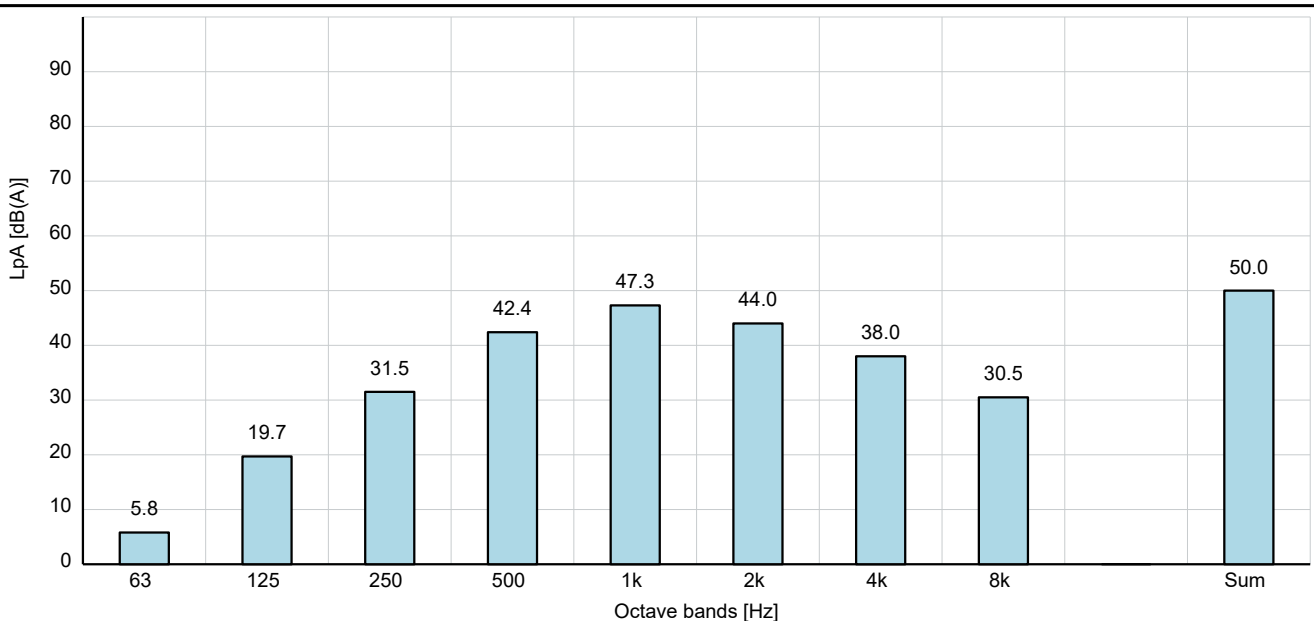
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U: 3 x 380-500 [В]  
f: 50/60 [Hz]  
P2: 1.1 [кВт]  
n: 2900 - 4000 [об./хв]

Умови випробувань: Load: No load / Idle

Sound test: 400 [В]  
f: 50 [Hz]  
P2: 0 [кВт]  
n: 3000 [об./хв]

### Пояснення:



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)]
  - "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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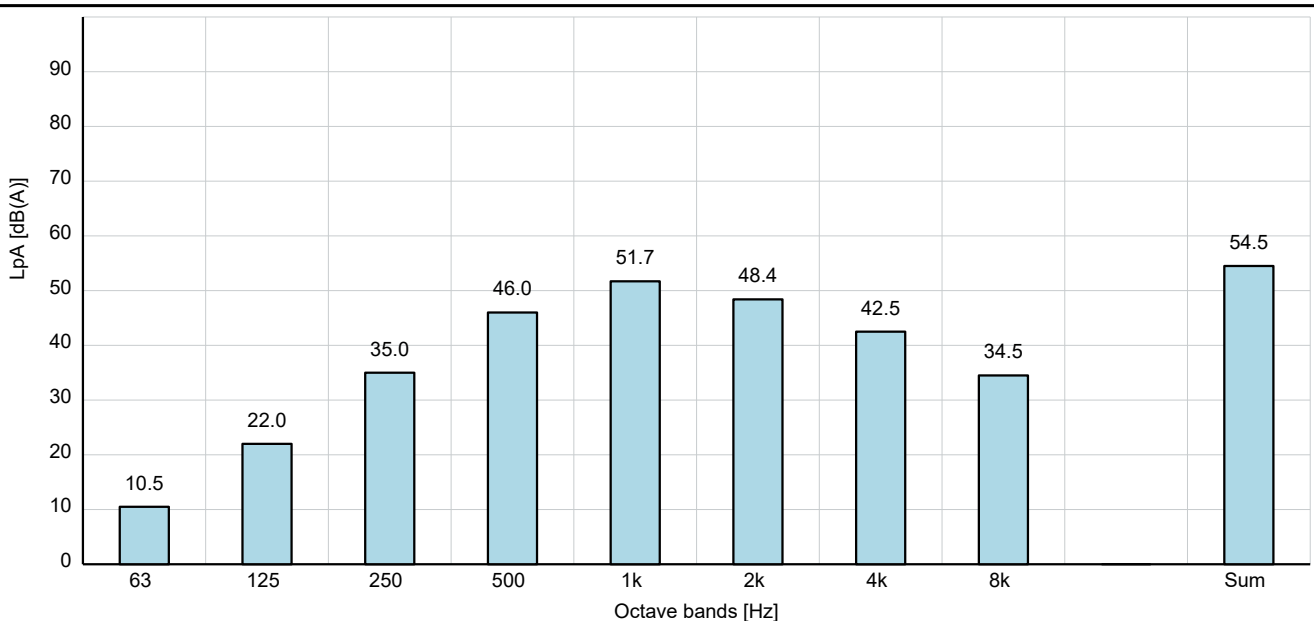
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 P2: 1.1 [кВт]  
 n: 2900 - 4000 [об./хв]

**Умови випробувань:** Load: No load / Idle  
 Sound test: 400 [В]  
 f: 50 [Hz]  
 P2: 0 [кВт]  
 n: 3600 [об./хв]

### Пояснення:



**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.
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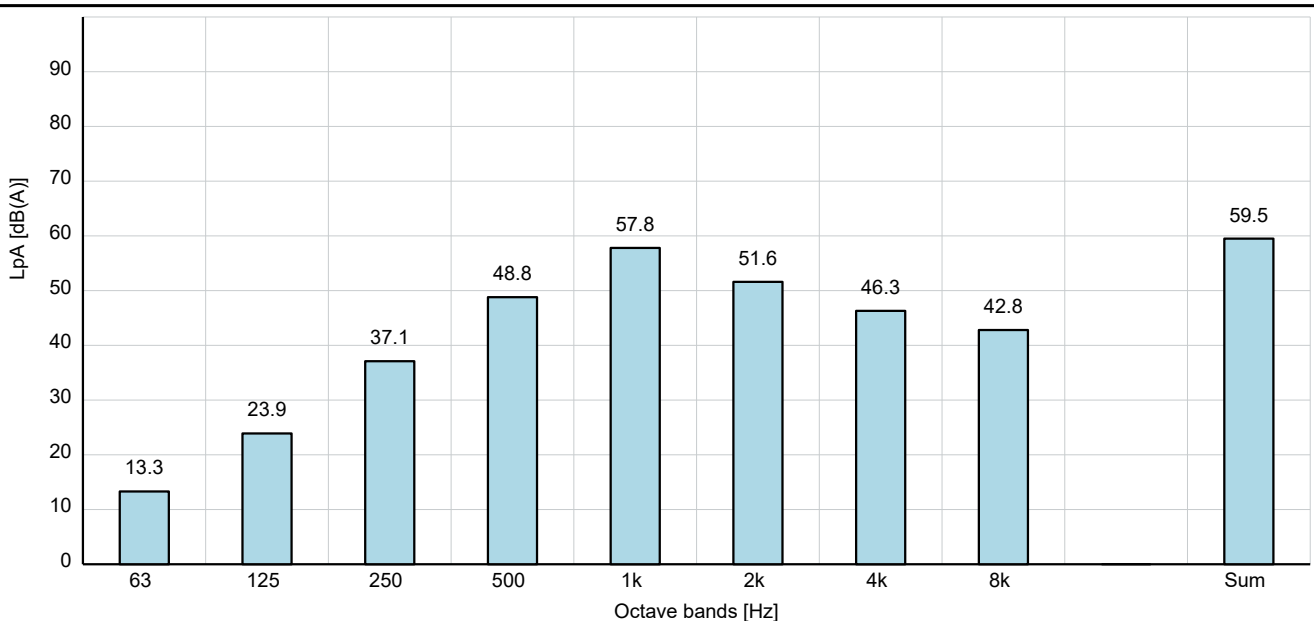
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 U: 3 x 380-500 [В]  
 f: 50/60 [Hz]  
 P2: 1.1 [кВт]  
 n: 2900 - 4000 [об./хв]

**Умови випробувань:** Load: No load / Idle  
 Sound test: 400 [В]  
 f: 50 [Hz]  
 P2: 0 [кВт]  
 n: 4000 [об./хв]

### Пояснення:



**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.
  - 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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