



Figure similar

MLFB-Ordering data

1PH8101-1FF12-1QA1

Client order no. :

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :

### Engineering data

|                  | $P_N$<br>[kW] | $M_N$<br>[Nm] | $I_N$<br>[A] | $U_N$<br>[V] | $f_N$<br>[Hz] | $n_N$<br>[rpm] | $M_{max}$<br>[Nm] | $I_{max}$<br>[A] | $n_{max}$<br>[rpm] | $M_0$<br>[Nm] | $I_0$<br>[A] | $\eta$ | $\cos \phi$ | $I_{\mu}$<br>[A] |
|------------------|---------------|---------------|--------------|--------------|---------------|----------------|-------------------|------------------|--------------------|---------------|--------------|--------|-------------|------------------|
| <b>ALM 400V</b>  | 4.3           | 23.0          | 12.5         | 304          | 60.8          | 1750           | 60                | 32.0             | 5000.0             | 29.0          | 14           | 0.852  | 0.80        | 6.0              |
| BLM/SLM 400V     | 3.7           | 24.0          | 12.5         | 265          | 52.4          | 1500           | 60                | 32.0             | 5000.0             | 29.0          | 14           | 0.835  | 0.80        | 6.0              |
| ALM/BLM/SLM 480V | 4.7           | 22.0          | 12.5         | 343          | 69.0          | 2000           | 60                | 32.0             | 5000.0             | 29.0          | 14           | 0.871  | 0.79        | 6.0              |

### Mechanical data

|                           |  |
|---------------------------|--|
| Motor type                | Squirrel cage asynchronous motor   |
| Shaft height              | 100  |
| Cooling                   | Forced ventilation NDE -> DE   |
| Vibration severity grade  | S/A  |
| Shaft and flange accuracy | R  |
| Degree of protection      | IP55   |
| Design acc. to Code I     | IM B5 (IM V1, IM V3)   |
| Temperature monitoring    | Pt1000 temperature sensor in the stator winding                                      |
| Color                     | Standard (Anthracite RAL 7016)   |
| Type of the bearing       | Advanced Lifetime  |
| Shaft extension           | Feather key with full key balancing  |
| Encoder system            | Absolut encoder 22 bit Singleturn + 12 bit Multiturn, max. encoder speed = 12000 rpm |

### Connection

|                               |              |
|-------------------------------|--------------|
| Type of electrical connection | Terminal box |
| Terminal box position         | NDE top      |
| Power connection              | right        |
| Signal connection             | DE           |
| Terminal box designation      | gk813        |

### Physical constants

|                       |                          |
|-----------------------|--------------------------|
| Thermal time constant | 20 min                   |
| Moment of inertia     | 0.01380 kgm <sup>2</sup> |
| Weight (approx.)      | 42 kg                    |

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## Cooling data and sound pressure level

|               |                        |
|---------------|------------------------|
| Airflow, min. | 0.04 m <sup>3</sup> /s |
|---------------|------------------------|

Sound pressure level LpA(1m) motor +  
external fan operation 50 HZ rated 70 dB \*  
load, tolerance + 3dB

|               |       |
|---------------|-------|
| Air discharge | axial |
|---------------|-------|

|               |        |
|---------------|--------|
| Pressure drop | 110 Pa |
|---------------|--------|

\* at a rated frequency of 4 kHz and a speed range of up to 5000 rpm