



Figure similar

MLFB-Ordering data

1PH8101-1DS03-0BA1

Client order no. :

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :

Engineering data

| | | P _N [kW] | M _N [Nm] | I _N [A] | U _N [V] | f _N [Hz] | n _N [rpm] | M _{max} [Nm] | I _{max} [A] | n _{max} [rpm] | M ₀ [Nm] | I ₀ [A] | η | cos φ | I _μ [A] |
|---|------------------|------------------------|------------------------|-----------------------|-----------------------|------------------------|-------------------------|--------------------------|-------------------------|---------------------------|------------------------|-----------------------|-------|-------|-----------------------|
| Y | ALM 400V | 4.9 | 23.0 | 13.2 | 328 | 69.1 | 2000 | 30 | 45.0 | 9000.0 | 19.0 | 20 | 0.870 | 0.80 | 6.3 |
| | BLM/SLM 400V | 3.7 | 24.0 | 13.2 | 253 | 52.4 | 1500 | 30 | 45.0 | 9000.0 | 19.0 | 20 | 0.830 | 0.80 | 6.3 |
| | ALM/BLM/SLM 480V | 6.2 | 24.0 | 13.2 | 404 | 85.9 | 2500 | 30 | 45.0 | 9000.0 | 19.0 | 20 | 0.890 | 0.80 | 6.2 |
| Δ | ALM 400V | 4.9 | 9.0 | 13.5 | 360 | 168.0 | 5000 | 60 | 34.0 | 9000.0 | 29.0 | 15 | 0.900 | 0.70 | 7.8 |
| | BLM/SLM 400V | 3.7 | 9.0 | 13.5 | 289 | 134.6 | 4000 | 60 | 34.0 | 9000.0 | 29.0 | 15 | 0.890 | 0.69 | 7.8 |
| | ALM/BLM/SLM 480V | 6.2 | 10.0 | 13.0 | 460 | 201.3 | 6000 | 60 | 34.0 | 9000.0 | 29.0 | 15 | 0.910 | 0.68 | 8.5 |

Mechanical data

| | |
|---------------------------|---|
| Motor type | Squirrel cage asynchronous motor |
| Shaft height | 100 |
| Cooling | Forced ventilation DE -> NDE |
| Vibration severity grade | R/A |
| Shaft and flange accuracy | R |
| Degree of protection | IP55 |
| Design acc. to Code I | IM B35 (IM V15, IM V35) |
| Temperature monitoring | Pt1000 temperature sensor in the stator winding |
| Color | Standard (Anthracite RAL 7016) |
| Type of the bearing | Standard with fixed bearing |
| Shaft extension | Plain shaft |
| Encoder system | Incremental encoder 22 bit with commutation position 11 bit, 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 | gk826 |

Physical constants

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

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Cooling data and sound pressure level

| | |
|---------------|------------------------|
| Airflow, min. | 0.04 m ³ /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