



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8184-1HF00-1EA1-Z  
K24+L76+V92

Client order no. :  
Order no. :  
Offer no. :  
Remarks :

Item no. :  
Consignment no. :  
Project :

Engineering data

|   |                  | P <sub>N</sub><br>[kW] | M <sub>N</sub><br>[Nm] | I <sub>N</sub><br>[A] | U <sub>N</sub><br>[V] | f <sub>N</sub><br>[Hz] | n <sub>N</sub><br>[rpm] | M <sub>max</sub><br>[Nm] | I <sub>max</sub><br>[A] | n <sub>max</sub><br>[rpm] | M <sub>0</sub><br>[Nm] | I <sub>0</sub><br>[A] | η     | cos φ | I <sub>μ</sub><br>[A] |
|---|------------------|------------------------|------------------------|-----------------------|-----------------------|------------------------|-------------------------|--------------------------|-------------------------|---------------------------|------------------------|-----------------------|-------|-------|-----------------------|
| Y | ALM 400V         | 60.0                   | 327.0                  | 120.0                 | 390                   | 58.9                   | 1,750                   | 925                      | 300.0                   | 5,000                     | 327.0                  | 120                   | 0.944 | 0.790 | 64.0                  |
|   | BLM/SLM 400V     | 51.0                   | 325.0                  | 116.0                 | 335                   | 50.6                   | 1,500                   | 925                      | 300.0                   | 5,000                     | 325.0                  | 116                   | 0.940 | 0.800 | 63.0                  |
|   | ALM/BLM/SLM 480V | 68.0                   | 325.0                  | 118.0                 | 450                   | 67.2                   | 2,000                   | 925                      | 300.0                   | 5,000                     | 325.0                  | 118                   | 0.947 | 0.780 | 65.0                  |

Mechanical data

|                           |                                                                 |
|---------------------------|-----------------------------------------------------------------|
| Motor type                | Squirrel cage asynchronous motor                                |
| Shaft height              | 180                                                             |
| Cooling                   | Forced ventilation DE -> NDE                                    |
| Vibration severity grade  | A                                                               |
| Shaft and flange accuracy | N                                                               |
| Degree of protection      | IP55                                                            |
| Design acc. to Code I     | IM B3 (IM B6, IM B7, IM B8, IM V6)                              |
| Temperature monitoring    | KTY84 temperature sensor in the stator winding                  |
| Color                     | Primer (light gray)                                             |
| Type of the bearing       | Increased cantilever forces                                     |
| Shaft end                 | Feather key with full key balancing                             |
| Encoder system            | Incremental encoder HTL 1024 S/R, max. encoder speed = 9000 rpm |

Physical constants

|                       |             |
|-----------------------|-------------|
| Thermal time constant | 22 min      |
| Moment of inertia     | 4,890 kgcm² |
| Weight (approx.)      | 350 kg      |

Connection

|                               |              |
|-------------------------------|--------------|
| Type of electrical connection | Terminal box |
| Position of the connection    | NDE top      |
| Power connection              | right        |
| Signal connection             | DE           |
| Terminal box designation      | 1XB7322-P05  |

Cooling data and sound pressure level

|                                                                                               |                     |
|-----------------------------------------------------------------------------------------------|---------------------|
| Airflow, min.                                                                                 | 0.17 m³/s           |
| Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB | 73 dB <sup>1)</sup> |
| Air discharge                                                                                 | axial               |
| Pressure drop                                                                                 | 550 Pa              |

External fan

Max. power consumption

3 AC 380 ... 480 V (-5% / +10%)  
50/60 Hz ±10% 0.44 ... 0.50 A

Special design

K24 Primer  
L76 EC fan 400 V 3 AC 50/60 Hz  
V92 1PH7184-/1PL6184-compatible shaft end 60 mm x 140 mm

<sup>1)</sup> at a rated frequency of 2 kHz and a speed range of up to 5000 rpm