



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8288-1DB10-0BU1

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] |
|---|------------------|------------------------|------------------------|-----------------------|-----------------------|------------------------|-------------------------|--------------------------|-------------------------|---------------------------|------------------------|-----------------------|-------|-------|-----------------------|
| Δ | ALM 400V         | 130.0                  | 2,481.0                | 245.0                 | 395                   | 17.0                   | 500                     | 6,550                    | 650.0                   | 3,300                     | 2,481.0                | 245                   | 0.941 | 0.820 | 127.0                 |
|   | BLM/SLM 400V     | 103.0                  | 2,459.0                | 245.0                 | 325                   | 13.6                   | 400                     | 6,550                    | 650.0                   | 3,300                     | 2,459.0                | 245                   | 0.931 | 0.800 | 136.0                 |
|   | ALM/BLM/SLM 480V | 155.0                  | 2,474.0                | 245.0                 | 460                   | 20.3                   | 600                     | 6,550                    | 650.0                   | 3,300                     | 2,474.0                | 245                   | 0.948 | 0.840 | 121.0                 |

Mechanical data

|                           |                                                                                             |
|---------------------------|---------------------------------------------------------------------------------------------|
| Motor type                | Squirrel cage asynchronous motor                                                            |
| Shaft height              | 280                                                                                         |
| Cooling                   | Forced ventilation NDE -> DE                                                                |
| Vibration severity grade  | R/A                                                                                         |
| Shaft and flange accuracy | R                                                                                           |
| Degree of protection      | IP55                                                                                        |
| Design acc. to Code I     | IM B3 (IM V6)                                                                               |
| Temperature monitoring    | Pt1000 temperature sensor in the stator winding                                             |
| Color                     | Standard (Anthracite RAL 7016)                                                              |
| Type of the bearing       | Standard                                                                                    |
| Shaft end                 | Plain shaft                                                                                 |
| Encoder system            | Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm |

External fan

Max. power consumption

3 AC 380 ... 480 V (-5% / +10%)  
50/60 Hz ±10% 0.75 ... 0.90 A

<sup>1)</sup> at a rated frequency of 2 kHz and a speed range of up to 3300 rpm

Physical constants

|                       |                          |
|-----------------------|--------------------------|
| Thermal time constant | 53 min                   |
| Moment of inertia     | 63,000 kgcm <sup>2</sup> |
| Weight (approx.)      | 1,650 kg                 |

Connection

|                               |              |
|-------------------------------|--------------|
| Type of electrical connection | Terminal box |
| Position of the connection    | NDE right    |
| Power connection              | below        |
| Signal connection             | DE           |
| Terminal box designation      | 1XB7700-P02  |

Cooling data and sound pressure level

|                                                                                               |                     |
|-----------------------------------------------------------------------------------------------|---------------------|
| Airflow, min.                                                                                 | 0.42 m³/s           |
| Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB | 74 dB <sup>1)</sup> |
| Air discharge                                                                                 | radial              |
| Pressure drop                                                                                 | 600 Pa              |