



Figure similar

## Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8226-1AL10-2EA2-Z**  
K40

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         | 185.0                  | 609.0                  | 335.0                 | 390                   | 97.1                   | 2,900                   | 1,450                    | 740.0                   | 4,500                     | 609.0                  | 335                   | 0.960 | 0.850 | 152.0                 |
|   | BLM/SLM 400V     | 168.0                  | 642.0                  | 350.0                 | 335                   | 83.8                   | 2,500                   | 1,450                    | 740.0                   | 4,500                     | 642.0                  | 350                   | 0.961 | 0.860 | 151.0                 |
|   | ALM/BLM/SLM 480V | 90.0                   | 253.0                  | 205.0                 | 460                   | 113.5                  | 3,400                   | 1,450                    | 740.0                   | 4,500                     | 253.0                  | 205                   | 0.926 | 0.600 | 156.0                 |

### Mechanical data

|                           |   |
|---------------------------|---|
| Motor type                | Squirrel cage asynchronous motor                |
| Shaft height              | 225   |
| Cooling                   | Forced ventilation NDE -> DE                    |
| 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    | Pt1000 temperature sensor in the stator winding |
| Color                     | Standard (Anthracite RAL 7016)                  |
| Type of the bearing       | Increased cantilever forces                     |
| Shaft end                 | Feather key with half key balancing             |
| Encoder system            | Without encoder                                 |

### Physical constants

|                       |                          |
|-----------------------|--------------------------|
| Thermal time constant | 52 min                   |
| Moment of inertia     | 19,300 kgcm <sup>2</sup> |
| Weight (approx.)      | 740 kg                   |

### Connection

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

### Cooling data and sound pressure level

|   |                        |
|---|------------------------|
| Airflow, min.   | 0.31 m <sup>3</sup> /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   | 650 Pa                 |

### External fan

#### Max. power consumption

1 AC 200 ... 277 V (±10%) 50/60 Hz ±10%    2.0 ... 2.3 A

### Special design

K40 Regreasing system

<sup>1)</sup> at a rated frequency of 2 kHz and a speed range of up to 3500 rpm