

## Data sheet for SIMOTICS M-1PH8

Article No. : **1PH8288-1HD40-2EV1-Z**  
G14+K83



Figure similar

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         | 435.0                  | 3,607.0                | 760.0                 | 385                   | 38.8                   | 1,150                   | 6,350                    | 1,300.0                 | 3,300                     | 3,607.0                | 760                   | 0.958 | 0.900 | 244.0                 |
|   | BLM/SLM 400V     | 379.0                  | 3,619.0                | 760.0                 | 335                   | 33.8                   | 1,000                   | 6,350                    | 1,300.0                 | 3,300                     | 3,619.0                | 760                   | 0.955 | 0.900 | 242.0                 |
|   | ALM/BLM/SLM 480V | 505.0                  | 3,573.0                | 750.0                 | 450                   | 45.5                   | 1,350                   | 6,350                    | 1,300.0                 | 3,300                     | 3,573.0                | 750                   | 0.962 | 0.900 | 243.0                 |

### Mechanical data

|                           |   |
|---------------------------|---|
| Motor type                | Squirrel cage asynchronous motor                                |
| Shaft height              | 280   |
| Cooling                   | Open circuit cooling NDE-> DE                                   |
| Vibration severity grade  | A   |
| Shaft and flange accuracy | N   |
| Degree of protection      | IP23  |
| Design acc. to Code I     | IM B3 (IM V6)   |
| Temperature monitoring    | KTY84 temperature sensor in the stator winding                  |
| Color                     | Standard (Anthracite RAL 7016)                                  |
| Type of the bearing       | Increased cantilever forces                                     |
| Shaft extension           | Feather key with half 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     | 63,000 kgcm <sup>2</sup> |
| Weight (approx.)      | 1,650 kg                 |

### Connection

|                               |              |
|-------------------------------|--------------|
| Type of electrical connection | Terminal box |
| Position of the connection    | NDE left     |
| Power connection              | NDE          |
| Signal connection             | below        |
| Terminal box designation      | 1XB7712-P03  |

### Cooling data and sound pressure level

|   |                        |
|---|------------------------|
| Airflow, min.   | 0.52 m <sup>3</sup> /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                 |

### External fan

#### Max. power consumption

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

### Special design

|     |  |
|-----|--|
| G14 | with air filter                          |
| K83 | Terminal box rotated through +90 degrees |

<sup>1)</sup> at a rated frequency of 2 kHz and a speed range of up to 2800 rpm