

## Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8186-1JC00-2BA2



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] |
|---|------------------|------------------------|------------------------|-----------------------|-----------------------|------------------------|-------------------------|--------------------------|-------------------------|---------------------------|------------------------|-----------------------|-------|-------|-----------------------|
| Y | ALM 400V         | 40.0                   | 478.0                  | 83.0                  | 360                   | 27.3                   | 800                     | 1,230                    | 205.0                   | 5,000                     | 478.0                  | 83                    | 0.916 | 0.84  | 41.0                  |
|   | BLM/SLM 400V     | 35.0                   | 478.0                  | 83.0                  | 330                   | 23.9                   | 700                     | 1,230                    | 205.0                   | 5,000                     | 478.0                  | 83                    | 0.909 | 0.81  | 44.0                  |
|   | ALM/BLM/SLM 480V | 50.0                   | 478.0                  | 83.0                  | 450                   | 33.9                   | 1,000                   | 1,230                    | 205.0                   | 5,000                     | 478.0                  | 83                    | 0.929 | 0.83  | 42.0                  |

| Mechanical data           |                                                                 |
|---------------------------|-----------------------------------------------------------------|
| Motor type                | Squirrel cage asynchronous motor                                |
| Shaft height              | 180                                                             |
| 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 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       | Standard                                                        |
| Shaft extension           | Feather key with half key balancing                             |
| Encoder system            | Incremental encoder HTL 2048 S/R, max. encoder speed = 4600 rpm |

| Physical constants    |                         |
|-----------------------|-------------------------|
| Thermal time constant | 25 min                  |
| Moment of inertia     | 6,520 kgcm <sup>2</sup> |
| Weight (approx.)      | 422 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 m <sup>3</sup> /s |
| Sound pressure level L <sub>pA</sub> (1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB | 73 dB <sup>1)</sup>    |
| Air discharge                                                                                              | axial                  |
| Pressure drop                                                                                              | 550 Pa                 |

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