



Figure similar

## Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8184-1AF30-0AA2

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         | 89.0                   | 486.0                  | 162.0                 | 390                   | 59.3                   | 1,750                   | 925                      | 300.0                   | 5,000                     | 486.0                  | 162                   | 0.937 | 0.870 | 61.0                  |
|   | BLM/SLM 400V     | 76.0                   | 484.0                  | 162.0                 | 335                   | 50.9                   | 1,500                   | 925                      | 300.0                   | 5,000                     | 484.0                  | 162                   | 0.931 | 0.870 | 61.0                  |
|   | ALM/BLM/SLM 480V | 98.0                   | 468.0                  | 156.0                 | 450                   | 67.5                   | 2,000                   | 925                      | 300.0                   | 5,000                     | 468.0                  | 156                   | 0.943 | 0.850 | 63.0                  |

### Mechanical data

|                           |   |
|---------------------------|---|
| Motor type                | Squirrel cage asynchronous motor                |
| Shaft height              | 180   |
| Cooling                   | Open circuit cooling DE-> NDE                   |
| Vibration severity grade  | A   |
| Shaft and flange accuracy | N   |
| Degree of protection      | IP23  |
| 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 end                 | Plain shaft                                     |
| Encoder system            | Without encoder                                 |

<sup>1)</sup> at a rated frequency of 2 kHz and a speed range of up to 3000 rpm

### Physical constants

|                       |                         |
|-----------------------|-------------------------|
| Thermal time constant | 26 min                  |
| Moment of inertia     | 4,890 kgcm <sup>2</sup> |
| 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.   | 0.21 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   | 450 Pa                 |

### External fan

#### Max. power consumption

|   |               |
|---|---------------|
| 1 AC 200 ... 277 V (±10%) 50/60 Hz ±10% | 1.1 ... 1.3 A |
|---|---------------|