

Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8135-1UF02-1LA1

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         | 21.5                   | 117.0                  | 43.0                  | 383                   | 59.6                   | 1,750                   | 300                      | 112.0                   | 10,000                    | 157.0                  | 53                    | 0.909 | 0.840 | 18.3                  |
|   | BLM/SLM 400V     | 18.5                   | 118.0                  | 43.0                  | 330                   | 51.3                   | 1,500                   | 300                      | 112.0                   | 10,000                    | 157.0                  | 53                    | 0.898 | 0.850 | 18.1                  |
|   | ALM/BLM/SLM 480V | 24.0                   | 115.0                  | 43.0                  | 434                   | 67.9                   | 2,000                   | 300                      | 112.0                   | 10,000                    | 157.0                  | 53                    | 0.929 | 0.840 | 18.1                  |

Mechanical data

|                           |                                                                          |
|---------------------------|--------------------------------------------------------------------------|
| Motor type                | Squirrel cage asynchronous motor                                         |
| Shaft height              | 132                                                                      |
| Cooling                   | Forced ventilation DE -> NDE                                             |
| Vibration severity grade  | SPECIAL/B                                                                |
| Shaft and flange accuracy | SPECIAL                                                                  |
| Degree of protection      | IP55                                                                     |
| Design acc. to Code I     | IM B5 (IM V1, IM V3)                                                     |
| Temperature monitoring    | Pt1000 temperature sensor in the stator winding                          |
| Color                     | Standard (Anthracite RAL 7016)                                           |
| Type of the bearing       | Performance                                                              |
| Shaft end                 | Feather key with full key balancing                                      |
| Encoder system            | Incremental encoder 20 bit without commutation position (encoder IN20DQ) |

External fan

Max. power consumption

|                           |        |
|---------------------------|--------|
| 3 AC 400 V / 50 Hz (±10%) | 0.21 A |
| 3 AC 400 V / 60 Hz (±10%) | 0.19 A |
| 3 AC 480 V / 60 Hz (±10%) | 0.23 A |

<sup>1)</sup> at a rated frequency of 4 kHz and a speed range of up to 5000 rpm

Physical constants

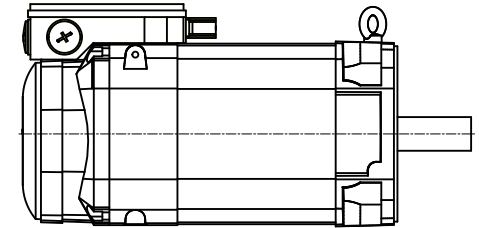
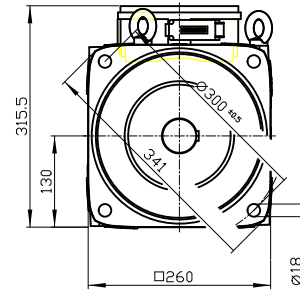
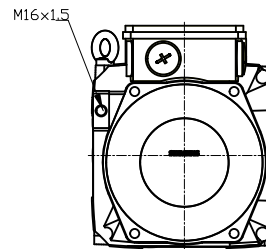
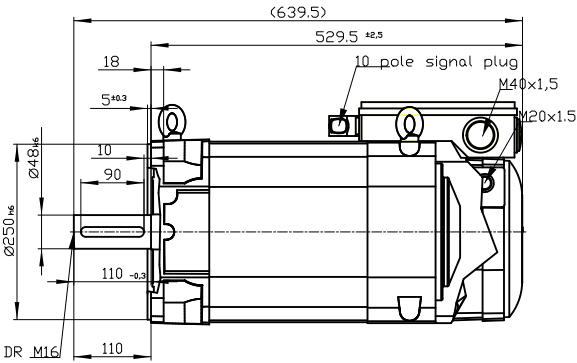
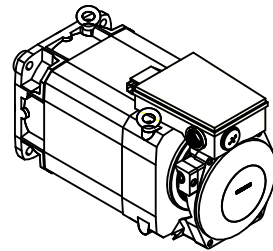
|                       |                       |
|-----------------------|-----------------------|
| Thermal time constant | 30 min                |
| Moment of inertia     | 940 kgcm <sup>2</sup> |
| Weight (approx.)      | 125 kg                |

Connection

|                               |              |
|-------------------------------|--------------|
| Type of electrical connection | Terminal box |
| Position of the connection    | NDE top      |
| Power connection              | right        |
| Signal connection             | DE           |
| Terminal box designation      | gk833        |

Cooling data and sound pressure level

|                                                                                               |                        |
|-----------------------------------------------------------------------------------------------|------------------------|
| Airflow, min.                                                                                 | 0.09 m <sup>3</sup> /s |
| Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB | 70 dB <sup>1)</sup>    |
| Air discharge                                                                                 | axial                  |
| Pressure drop                                                                                 | 140 Pa                 |

DIN 332 - DR M16

|                                                                                       |         |                                                                                                                                                               |  |
|---------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Type of construction IM B5 (IM V1, IM V3)                                             |         | / Type of protection IP55                                                                                                                                     |  |
|  |         | <div style="border-bottom: 1px solid black; height: 20px; width: 100%;"></div> <div style="border-bottom: 1px solid black; height: 20px; width: 100%;"></div> |  |
| Terminal box                                                                          | gk833   | 1PH8135-1UF02-1LA1                                                                                                                                            |  |
| Weight                                                                                | 125 kg  |                                                                                                                                                               |  |
| Unit                                                                                  | mm (in) |                                                                                                                                                               |  |
| Date                                                                                  | 4/28/23 |                                                                                                                                                               |  |
| SIEMENS AG                                                                            |         | DT                                                                                                                                                            |  |
| not tolerated dimensions: ± 1                                                         |         |                                                                                                                                                               |  |