



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8137-2DF00-1FA1

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         | 35.6                   | 194.0                  | 59.0                  | 412                   | 58.3                   | 1,750                   | 460                      | 163.0                   | 4,500                     | 203.0                  | 62                    | 0.953 | 0.000 | 0.0                   |
|   | BLM/SLM 400V     | 30.6                   | 195.0                  | 60.0                  | 356                   | 50.0                   | 1,500                   | 460                      | 163.0                   | 4,500                     | 203.0                  | 62                    | 0.952 | 0.000 | 0.0                   |
|   | ALM/BLM/SLM 480V | 40.0                   | 191.0                  | 59.0                  | 449                   | 66.7                   | 2,000                   | 460                      | 163.0                   | 4,500                     | 203.0                  | 62                    | 0.954 | 0.000 | 0.0                   |

Mechanical data

|                           |                                                                                             |
|---------------------------|---------------------------------------------------------------------------------------------|
| Motor type                | Permanent-magnet synchronous motor                                                          |
| Shaft height              | 132                                                                                         |
| 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 V5, IM V6, IM B6, IM B7, IM B8)                                                   |
| 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 full key balancing                                                         |
| Encoder system            | Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm |

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 | 10 min                |
| Moment of inertia     | 885 kgcm <sup>2</sup> |
| Weight (approx.)      | 136 kg                |

Connection

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

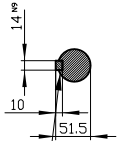
Cooling data and sound pressure level

|                                                                                               |                     |
|-----------------------------------------------------------------------------------------------|---------------------|
| Airflow, min.                                                                                 | 0.09 m³/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              |

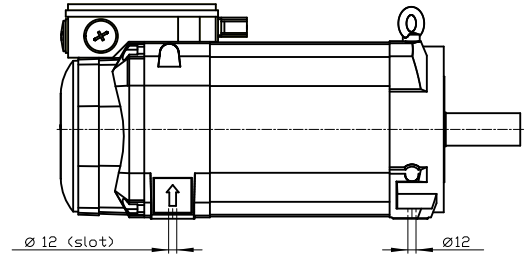
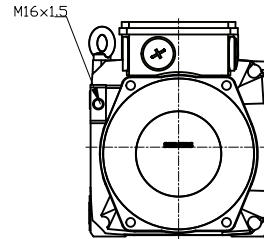
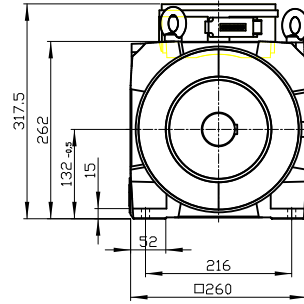
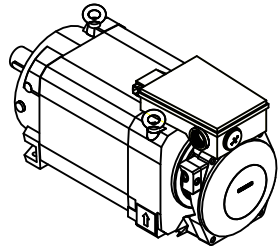
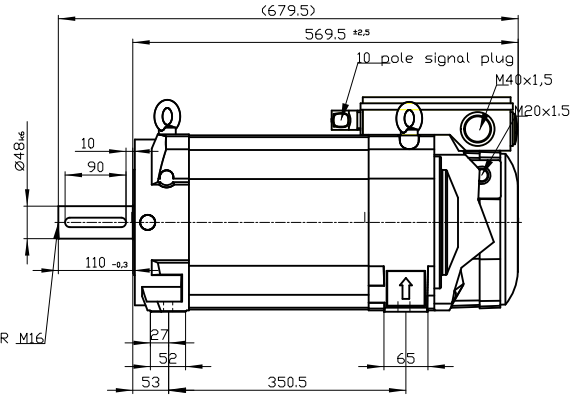
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DE - shaft extension  
version with featherkey

deviation acc. to  
DIN 6885 sheet 1



DIN 332 - DR M16



Type of construction: IM B3 (IM V5, IM V6, IM B6, IM B7, IM B8) Protection: IP55

|                                                                                       |         |                    |  |
|---------------------------------------------------------------------------------------|---------|--------------------|--|
|  |         |                    |  |
| Terminal box                                                                          | gk833   | 1PH8137-2DF00-1FA1 |  |
| Weight                                                                                | 136 kg  |                    |  |
| Unit                                                                                  | mm [in] |                    |  |
| Date                                                                                  | 4/19/23 |                    |  |
| SIEMENS AG                                                                            |         | DT                 |  |
| not toleranced dimensions: ± 1                                                        |         |                    |  |