



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8165-1DD03-1BA1

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         | 31.0                   | 257.0                  | 69.0                  | 333                   | 39.2                   | 1,150                   | 740                      | 192.0                   | 6,500                     | 302.0                  | 77                    | 0.921 | 0.890 | 20.9                  |
|   | BLM/SLM 400V     | 28.0                   | 267.0                  | 71.0                  | 292                   | 34.2                   | 1,000                   | 740                      | 192.0                   | 6,500                     | 302.0                  | 77                    | 0.914 | 0.890 | 22.2                  |
|   | ALM/BLM/SLM 480V | 34.0                   | 241.0                  | 66.0                  | 387                   | 45.8                   | 1,350                   | 740                      | 192.0                   | 6,500                     | 302.0                  | 77                    | 0.928 | 0.860 | 22.5                  |

Mechanical data

|                           |                                                                                             |
|---------------------------|---------------------------------------------------------------------------------------------|
| Motor type                | Squirrel cage asynchronous motor                                                            |
| Shaft height              | 160                                                                                         |
| 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 B35 (IM V15, IM V35)                                                                     |
| Temperature monitoring    | Pt1000 temperature sensor in the stator winding                                             |
| Color                     | Standard (Anthracite RAL 7016)                                                              |
| Type of the bearing       | Standard with fixed bearing                                                                 |
| 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%) | 0.26 A |
| 3 AC 400 V / 60 Hz (±10%) | 0.32 A |
| 3 AC 480 V / 60 Hz (±10%) | 0.33 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 | 35 min                  |
| Moment of inertia     | 2,320 kgcm <sup>2</sup> |
| Weight (approx.)      | 230 kg                  |

Connection

|                               |              |
|-------------------------------|--------------|
| Type of electrical connection | Terminal box |
| Position of the connection    | NDE top      |
| Power connection              | right        |
| Signal connection             | DE           |
| Terminal box designation      | gk863        |

Cooling data and sound pressure level

|                                                                                               |                        |
|-----------------------------------------------------------------------------------------------|------------------------|
| Airflow, min.                                                                                 | 0.16 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                                                                                 | 200 Pa                 |

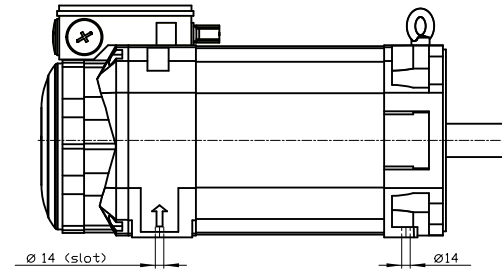
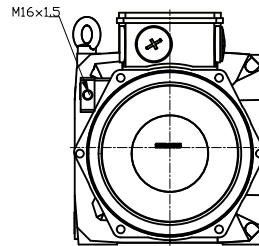
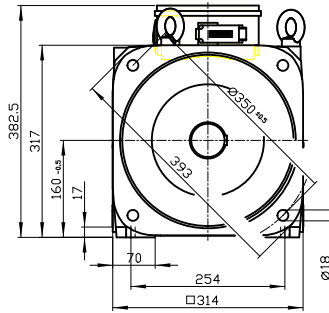
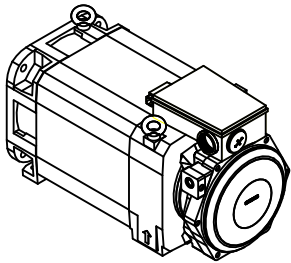
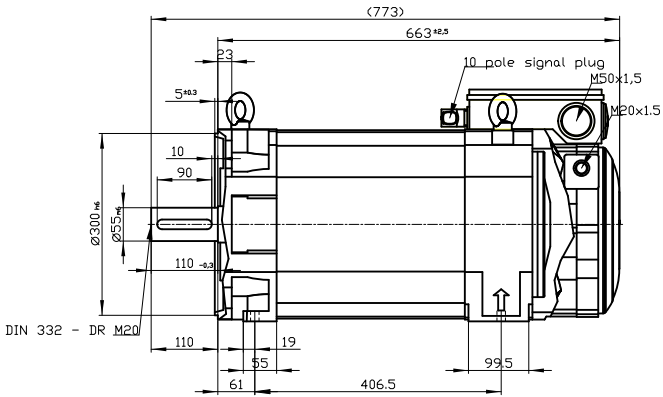
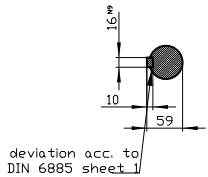
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Cada-drawing do not make any manual changes

DE - shaft extension  
version with featherkey



Type of construction: IM B35 (IM V15, IM V35) / Type of protection: IP55

|                                                                                       |  |         |                    |
|---------------------------------------------------------------------------------------|--|---------|--------------------|
|  |  |         |                    |
| Terminal box                                                                          |  | gk863   | 1PH8165-1DD03-1BA1 |
| Weight                                                                                |  | 230 kg  |                    |
| Unit                                                                                  |  | mm [in] |                    |
| Date                                                                                  |  | 4/20/23 |                    |
| SIEMENS AG                                                                            |  |         | DT                 |
| not toleranced dimensions: ± 1                                                        |  |         |                    |