



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8137-1AS00-0BA2

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         | 29.0                   | 138.0                  | 56.0                  | 398                   | 68.0                   | 2,000                   | 320                      | 130.0                   | 8,000                     | 185.0                  | 68                    | 0.931 | 0.850 | 22.7                  |
|   | BLM/SLM 400V     | 22.0                   | 140.0                  | 56.0                  | 308                   | 51.3                   | 1,500                   | 320                      | 130.0                   | 8,000                     | 185.0                  | 68                    | 0.902 | 0.840 | 24.2                  |
|   | ALM/BLM/SLM 480V | 36.0                   | 138.0                  | 50.0                  | 460                   | 84.9                   | 2,500                   | 320                      | 130.0                   | 8,000                     | 185.0                  | 68                    | 0.951 | 0.890 | 17.4                  |
| Δ | ALM 400V         | 27.5                   | 53.0                   | 56.0                  | 425                   | 167.5                  | 5,000                   | 160                      | 160.0                   | 8,000                     | 105.0                  | 87                    | 0.919 | 0.830 | 22.5                  |
|   | BLM/SLM 400V     | 22.0                   | 53.0                   | 55.0                  | 383                   | 134.0                  | 4,000                   | 160                      | 160.0                   | 8,000                     | 105.0                  | 87                    | 0.907 | 0.760 | 27.6                  |
|   | ALM/BLM/SLM 480V | 33.0                   | 53.0                   | 55.0                  | 460                   | 201.0                  | 6,000                   | 160                      | 160.0                   | 8,000                     | 105.0                  | 87                    | 0.942 | 0.870 | 20.0                  |

Mechanical data

|                           |                                                 |
|---------------------------|-------------------------------------------------|
| Motor type                | Squirrel cage asynchronous 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       | Standard with fixed bearing                     |
| Shaft end                 | Plain shaft                                     |
| Encoder system            | Without encoder                                 |

Physical constants

|                       |                         |
|-----------------------|-------------------------|
| Thermal time constant | 30 min                  |
| Moment of inertia     | 1,090 kgcm <sup>2</sup> |
| Weight (approx.)      | 141 kg                  |

Connection

|                               |              |
|-------------------------------|--------------|
| Type of electrical connection | Terminal box |
| Position of the connection    | NDE top      |
| Power connection              | right        |
| Signal connection             | DE           |
| Terminal box designation      | gk846        |

Cooling data and sound pressure level

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

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 |

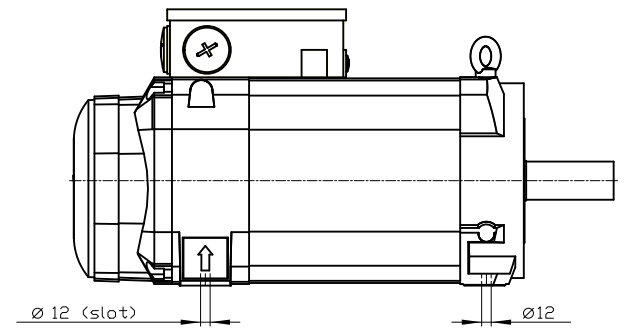
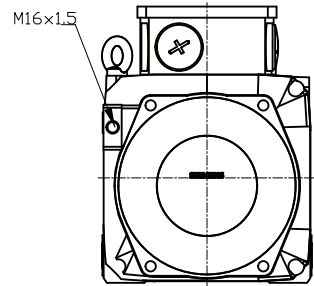
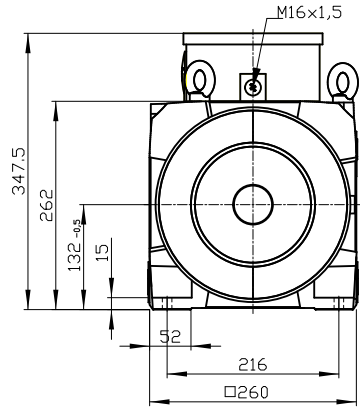
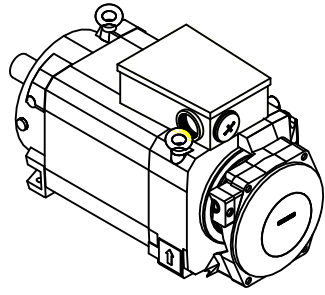
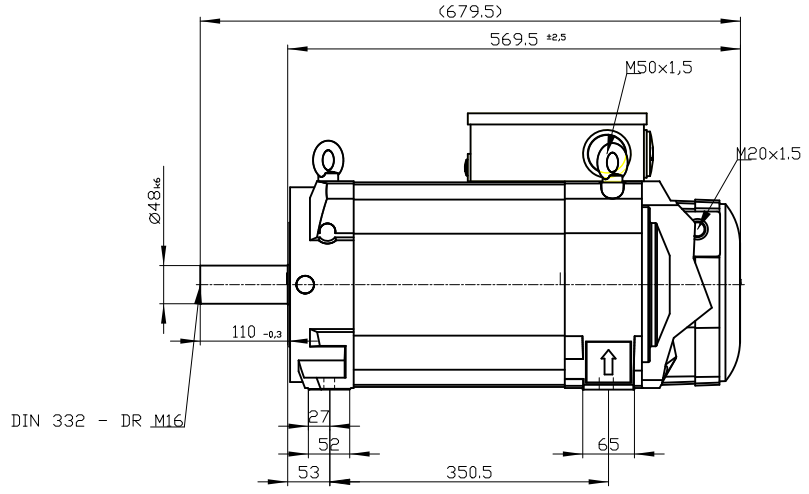
<sup>1)</sup> at a rated frequency of 4 kHz and a speed range of up to 5000 rpm

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Cod-drawing do not make any manual changes

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

|                                                                                       |  |         |                    |
|---------------------------------------------------------------------------------------|--|---------|--------------------|
|  |  | —       |                    |
|                                                                                       |  | —       |                    |
| Terminal box                                                                          |  | gk846   | 1PH8137-1AS00-0BA2 |
| Weight                                                                                |  | 141 kg  |                    |
| Unit                                                                                  |  | mm [in] |                    |
| Date                                                                                  |  | 4/18/23 |                    |
| SIEMENS AG                                                                            |  | —       |                    |
| not toleranced dimensions: ± 1                                                        |  |         |                    |
|                                                                                       |  | DT      |                    |