



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8135-1CS02-3LA2

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         | 24.5                   | 117.0                  | 51.0                  | 372                   | 68.0                   | 2,000                   | 300                      | 132.0                   | 10,000                    | 157.0                  | 62                    | 0.917 | 0.850 | 20.9                  |
|   | BLM/SLM 400V     | 18.5                   | 118.0                  | 51.0                  | 283                   | 51.3                   | 1,500                   | 300                      | 132.0                   | 10,000                    | 157.0                  | 62                    | 0.901 | 0.850 | 21.1                  |
|   | ALM/BLM/SLM 480V | 30.5                   | 117.0                  | 50.0                  | 460                   | 84.6                   | 2,500                   | 300                      | 132.0                   | 10,000                    | 157.0                  | 62                    | 0.949 | 0.850 | 20.8                  |
| Δ | ALM 400V         | 24.5                   | 47.0                   | 52.0                  | 425                   | 167.5                  | 5,000                   | 131                      | 145.0                   | 10,000                    | 94.0                   | 78                    | 0.939 | 0.810 | 22.8                  |
|   | BLM/SLM 400V     | 18.5                   | 44.0                   | 51.0                  | 364                   | 134.0                  | 4,000                   | 131                      | 145.0                   | 10,000                    | 94.0                   | 78                    | 0.912 | 0.760 | 23.3                  |
|   | ALM/BLM/SLM 480V | 30.5                   | 49.0                   | 50.0                  | 460                   | 201.0                  | 6,000                   | 131                      | 145.0                   | 10,000                    | 94.0                   | 78                    | 0.941 | 0.860 | 20.0                  |

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                 | Smooth hollow shaft                                                                        |
| Encoder system            | Incremental encoder sin/cos 1Vpp 256 S/R without ND-end at terminal box (encoder IN256S/R) |

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                |

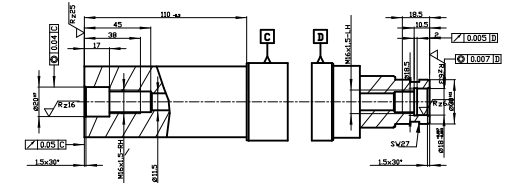
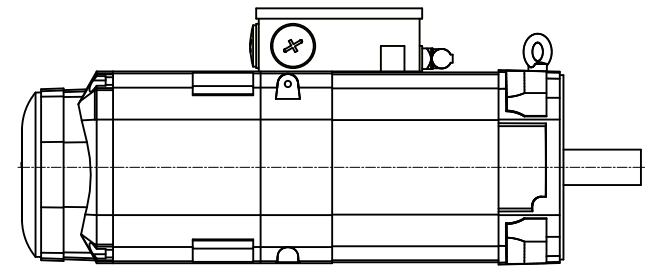
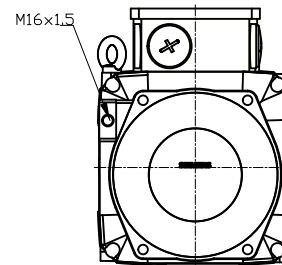
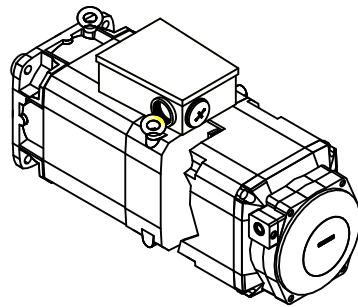
Connection

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

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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 Cad-drawing: do not make any  
 manual changes



/ Type of protection: IP55



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|--|--|

not toleranced dimensions:  $\pm 1$

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|--|----|
|  | DT |
|--|----|