



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8288-1AF10-0BU2

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] |
|---|------------------|------------------------|------------------------|-----------------------|-----------------------|------------------------|-------------------------|--------------------------|-------------------------|---------------------------|------------------------|-----------------------|-------|-------|-----------------------|
| Δ | ALM 400V         | 340.0                  | 1,856.0                | 580.0                 | 400                   | 58.7                   | 1,750                   | 5,500                    | 1,640.0                 | 3,300                     | 1,856.0                | 1,640                 | 0.967 | 0.880 | 233.0                 |
|   | BLM/SLM 400V     | 320.0                  | 2,037.0                | 620.0                 | 345                   | 50.4                   | 1,500                   | 5,500                    | 1,640.0                 | 3,300                     | 2,037.0                | 1,640                 | 0.966 | 0.890 | 233.0                 |
|   | ALM/BLM/SLM 480V | 385.0                  | 1,838.0                | 570.0                 | 455                   | 67.0                   | 2,000                   | 5,500                    | 1,640.0                 | 3,300                     | 1,838.0                | 1,640                 | 0.967 | 0.880 | 232.0                 |

Mechanical data

|                           |                                                 |
|---------------------------|-------------------------------------------------|
| Motor type                | Squirrel cage asynchronous motor                |
| Shaft height              | 280                                             |
| Cooling                   | Forced ventilation NDE -> DE                    |
| Vibration severity grade  | R/A                                             |
| Shaft and flange accuracy | R                                               |
| Degree of protection      | IP55                                            |
| Design acc. to Code I     | IM B3 (IM V6)                                   |
| Temperature monitoring    | Pt1000 temperature sensor in the stator winding |
| Color                     | Standard (Anthracite RAL 7016)                  |
| Type of the bearing       | Standard                                        |
| Shaft end                 | Plain shaft                                     |
| Encoder system            | Without encoder                                 |

<sup>1)</sup> at a rated frequency of 2 kHz and a speed range of up to 3300 rpm

Physical constants

|                       |                          |
|-----------------------|--------------------------|
| Thermal time constant | 53 min                   |
| Moment of inertia     | 63,000 kgcm <sup>2</sup> |
| Weight (approx.)      | 1,650 kg                 |

Connection

|                               |              |
|-------------------------------|--------------|
| Type of electrical connection | Terminal box |
| Position of the connection    | NDE right    |
| Power connection              | below        |
| Signal connection             | DE           |
| Terminal box designation      | 1XB7712-P03  |

Cooling data and sound pressure level

|                                                                                               |                        |
|-----------------------------------------------------------------------------------------------|------------------------|
| Airflow, min.                                                                                 | 0.42 m <sup>3</sup> /s |
| Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB | 74 dB <sup>1)</sup>    |
| Air discharge                                                                                 | radial                 |
| Pressure drop                                                                                 | 600 Pa                 |

External fan

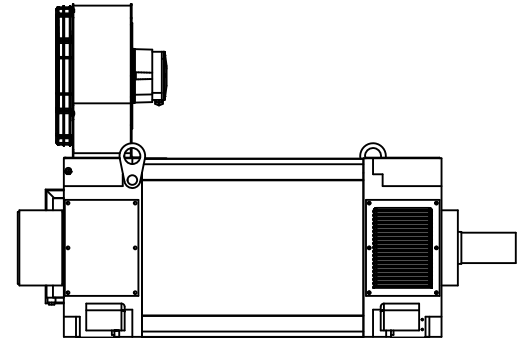
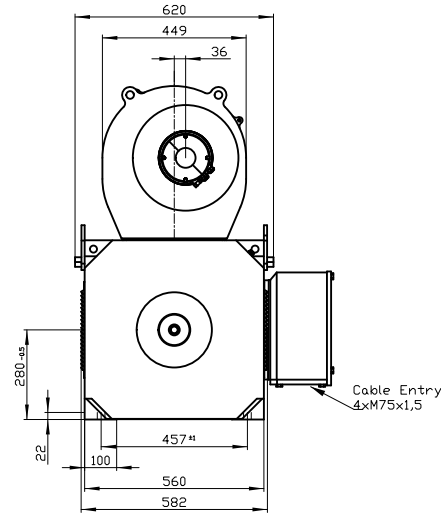
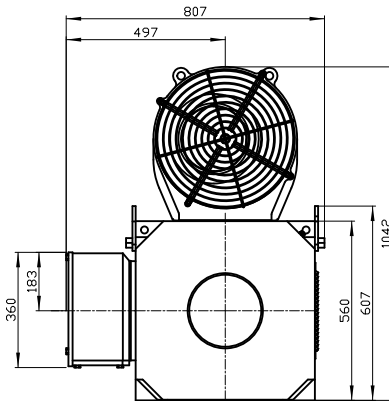
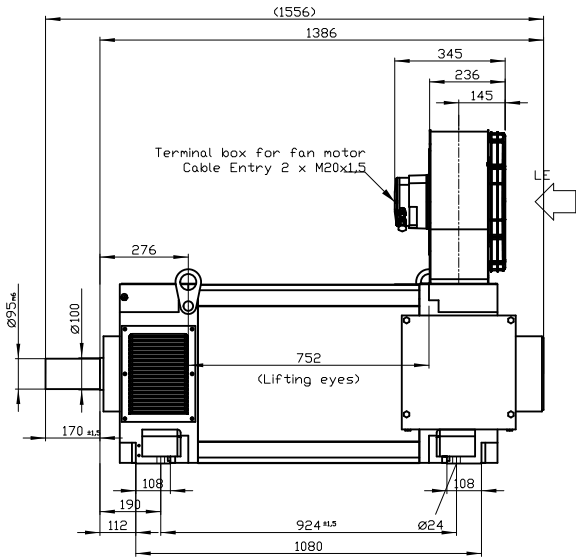
|                                                  |                 |
|--------------------------------------------------|-----------------|
| Max. power consumption                           |                 |
| 3 AC 380 ... 480 V (-5% / +10%)<br>50/60 Hz ±10% | 0.75 ... 0.90 A |

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Type of construction: IM B3 (IM V6)

/ Type of protection: IP55

|                                                                                       |  |             |  |
|---------------------------------------------------------------------------------------|--|-------------|--|
|  |  |             |  |
|                                                                                       |  |             |  |
| Terminal box                                                                          |  | 1XB7712-P03 |  |
| Weight                                                                                |  | 1650 kg     |  |
| Unit                                                                                  |  | mm [in]     |  |
| Date                                                                                  |  | 5/4/23      |  |
| SIEMENS AG                                                                            |  | DT          |  |
| not toleranced dimensions: ± 1                                                        |  |             |  |