

Data sheet for SINAMICS Power module PM240-2

Article No. : 6SL3210-1PE18-0UL1



Figure similar

Client order no. :  
Order no. :  
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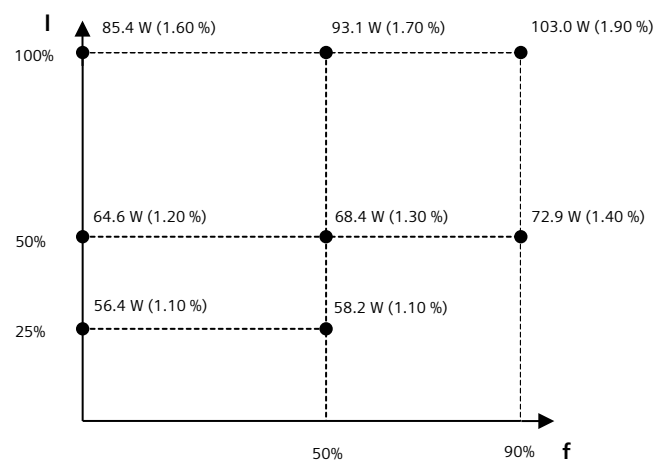
| Rated data                                                                                                                                                                    |                     |                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------|
| Input                                                                                                                                                                         |                     |                        |
| Number of phases                                                                                                                                                              | 3 AC                |                        |
| Line voltage                                                                                                                                                                  | 380 ... 480 V ±10 % |                        |
| Line frequency                                                                                                                                                                | 47 ... 63 Hz        |                        |
| Rated current (LO)                                                                                                                                                            | 10.10 A             |                        |
| Rated current (HO)                                                                                                                                                            | 8.80 A              |                        |
| Output                                                                                                                                                                        |                     |                        |
| Number of phases                                                                                                                                                              | 3 AC                |                        |
| Rated voltage                                                                                                                                                                 | 400V IEC            | 480V NEC <sup>1)</sup> |
| Rated power (LO)                                                                                                                                                              | 3.00 kW             | 4.00 hp                |
| Rated power (HO)                                                                                                                                                              | 2.20 kW             | 3.00 hp                |
| Rated current (LO)                                                                                                                                                            | 7.70 A              |                        |
| Rated current (HO)                                                                                                                                                            | 5.90 A              |                        |
| Max. output current                                                                                                                                                           | 11.80 A             |                        |
| Pulse frequency                                                                                                                                                               | 4 kHz               |                        |
| Output frequency for vector control                                                                                                                                           | 0 ... 200 Hz        |                        |
| Output frequency for V/f control                                                                                                                                              | 0 ... 550 Hz        |                        |
| Overload capability                                                                                                                                                           |                     |                        |
| Low Overload (LO)                                                                                                                                                             |                     |                        |
| 1.1 × rated output current (i.e. 110 % overload) for 57 s with a cycle time of 300 s<br>1.5 × rated output current (i.e. 150 % overload) for 3 s with a cycle time of 300 s   |                     |                        |
| High Overload (HO)                                                                                                                                                            |                     |                        |
| 1.5 × output current rating (i.e., 150 % overload) for 57 s with a cycle time of 300 s<br>2 × output current rating (i.e., 200 % overload) for 3 s with a cycle time of 300 s |                     |                        |
| General tech. specifications                                                                                                                                                  |                     |                        |
| Power factor λ                                                                                                                                                                | 0.85                |                        |
| Offset factor cos φ                                                                                                                                                           | 0.95                |                        |
| Efficiency η                                                                                                                                                                  | 0.96                |                        |
| Sound pressure level (1m)                                                                                                                                                     | 72 dB               |                        |
| Power loss                                                                                                                                                                    | 0.12 kW             |                        |
| Filter class (integrated)                                                                                                                                                     | -                   |                        |

| Ambient conditions        |                                          |
|---------------------------|------------------------------------------|
| Cooling                   | Internal air cooling                     |
| Cooling air requirement   | 0.005 m³/s (0.177 ft³/s)                 |
| Installation altitude     | 1,000 m (3,280.84 ft)                    |
| Ambient temperature       |                                          |
| Operation LO              | -5 ... 40 °C (23 ... 104 °F)             |
| Operation HO              | -5 ... 50 °C (23 ... 122 °F)             |
| Transport                 | -25 ... 55 °C (-13 ... 131 °F)           |
| Storage                   | -25 ... 55 °C (-13 ... 131 °F)           |
| Relative humidity         |                                          |
| Max. operation            | 95 % RH, condensation not permitted      |
| Connections               |                                          |
| Line side                 |                                          |
| Version                   | Plug-in screw terminals                  |
| Conductor cross-section   | 1.50 ... 2.50 mm²<br>(AWG 16 ... AWG 14) |
| Motor end                 |                                          |
| Version                   | Plug-in screw terminals                  |
| Conductor cross-section   | 1.50 ... 2.50 mm²<br>(AWG 16 ... AWG 14) |
| Max. motor cable length   |                                          |
| Shielded                  | 50 m (164.04 ft)                         |
| Unshielded                | 100 m (328.08 ft)                        |
| Mechanical data           |                                          |
| Degree of protection      | IP20 / UL open type                      |
| Frame size                | FSA                                      |
| Net weight                | 1.40 kg (3.09 lb)                        |
| Dimensions                |                                          |
| Width                     | 73 mm (2.87 in)                          |
| Height                    | 196 mm (7.72 in)                         |
| Depth                     | 165 mm (6.50 in)                         |
| Standards                 |                                          |
| Compliance with standards | UL, cUL, CE, C-Tick (RCM), SEMI F47      |
| CE marking                | Low-voltage directive 2006/95/EC         |

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| Converter losses to IEC61800-9-2*                    |         |
|------------------------------------------------------|---------|
| Efficiency class                                     | IE2     |
| Comparison with the reference converter (90% / 100%) | 30.30 % |



The percentage values show the losses in relation to the rated apparent power of the converter.

The diagram shows the losses for the points (as per standard IEC61800-9-2) of the relative torque generating current (I) over the relative motor stator frequency (f). The values are valid for the basic version of the converter without options/components.

\*converted values

<sup>1)</sup> The output current and HP ratings are valid for the voltage range 440V-480V