

## Data sheet for SINAMICS Power module PM240P-2

Article No. : 6SL3210-1RE28-8UL0



Figure similar

Client order no. :  
Order no. :  
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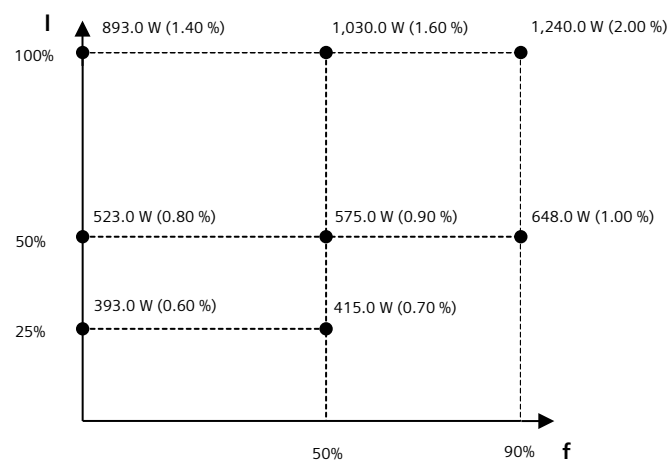
| Rated data                                                                                                                                                                   |                     |                        |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------|--|
| Input                                                                                                                                                                        |                     |                        |  |
| Number of phases                                                                                                                                                             | 3 AC                |                        |  |
| Line voltage                                                                                                                                                                 | 380 ... 480 V ±10 % |                        |  |
| Line frequency                                                                                                                                                               | 47 ... 63 Hz        |                        |  |
| Rated current (LO)                                                                                                                                                           | 86.00 A             |                        |  |
| Rated current (HO)                                                                                                                                                           | 78.00 A             |                        |  |
| Output                                                                                                                                                                       |                     |                        |  |
| Number of phases                                                                                                                                                             | 3 AC                |                        |  |
| Rated voltage                                                                                                                                                                | 400V IEC            | 480V NEC <sup>1)</sup> |  |
| Rated power (LO)                                                                                                                                                             | 45.00 kW            | 50.00 hp               |  |
| Rated power (HO)                                                                                                                                                             | 37.00 kW            | 40.00 hp               |  |
| Rated current (LO)                                                                                                                                                           | 90.00 A             |                        |  |
| Rated current (HO)                                                                                                                                                           | 75.00 A             |                        |  |
| Max. output current                                                                                                                                                          | 122.00 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 x rated output current (i.e. 110 % overload) for 57 s with a cycle time of 300 s<br>1.35 x rated output current (i.e. 135 % overload) for 3 s with a cycle time of 300 s |                     |                        |  |
| High Overload (HO)                                                                                                                                                           |                     |                        |  |
| 1.5 x output current rating (i.e., 150 % overload) for 60 s with a cycle time of 300 s                                                                                       |                     |                        |  |
| General tech. specifications                                                                                                                                                 |                     |                        |  |
| Power factor λ                                                                                                                                                               | 0.95                |                        |  |
| Offset factor cos φ                                                                                                                                                          | 0.99                |                        |  |
| Efficiency η                                                                                                                                                                 | 0.98                |                        |  |
| Sound pressure level (1m)                                                                                                                                                    | 71 dB               |                        |  |
| Power loss                                                                                                                                                                   | 1.25 kW             |                        |  |
| Filter class (integrated)                                                                                                                                                    | -                   |                        |  |

| Ambient conditions        |                                           |
|---------------------------|-------------------------------------------|
| Cooling                   | Internal air cooling                      |
| Cooling air requirement   | 0.083 m³/s (2.931 ft³/s)                  |
| Installation altitude     | 1,000 m (3,280.84 ft)                     |
| Ambient temperature       |                                           |
| Operation LO              | -20 ... 40 °C (-4 ... 104 °F)             |
| Operation HO              | -20 ... 50 °C (-4 ... 122 °F)             |
| Transport                 | -40 ... 70 °C (-40 ... 158 °F)            |
| Storage                   | -40 ... 70 °C (-40 ... 158 °F)            |
| Relative humidity         |                                           |
| Max. operation            | 95 % RH, condensation not permitted       |
| Connections               |                                           |
| Line side                 |                                           |
| Version                   | screw-type terminal                       |
| Conductor cross-section   | 25.00 ... 70.00 mm²<br>(AWG 4 ... AWG -1) |
| Motor end                 |                                           |
| Version                   | Screw-type terminals                      |
| Conductor cross-section   | 25.00 ... 70.00 mm²<br>(AWG 4 ... AWG -1) |
| Max. motor cable length   |                                           |
| Shielded                  | 200 m (656.17 ft)                         |
| Unshielded                | 300 m (984.25 ft)                         |
| Mechanical data           |                                           |
| Degree of protection      | IP20 / UL open type                       |
| Frame size                | FSE                                       |
| Net weight                | 26.00 kg (57.32 lb)                       |
| Dimensions                |                                           |
| Width                     | 275 mm (10.83 in)                         |
| Height                    | 551 mm (21.69 in)                         |
| Depth                     | 237 mm (9.33 in)                          |
| Standards                 |                                           |
| Compliance with standards | UL, cUL, CE, 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%) | 42.10 % |



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