

## Data sheet for SINAMICS Power module PM240-2

Article No. : 6SL3210-1PE21-4AL0

Client order no. :  
Order no. :  
Offer no. :  
Remarks :

Item no. :  
Consignment no. :  
Project :

Figure similar



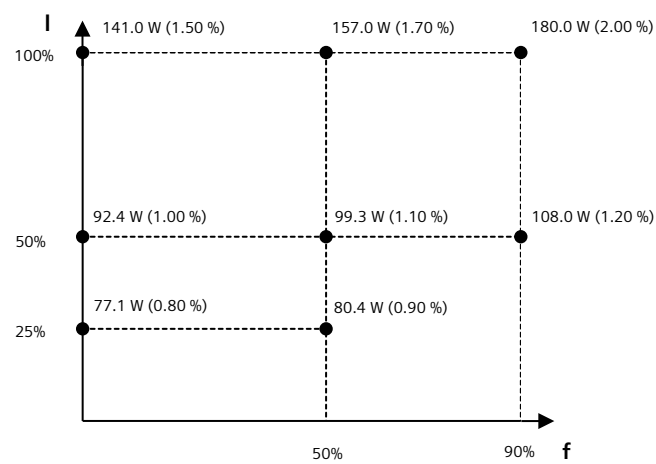
| Rated data                                                                                                                                                                    |                     |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------|
| Input                                                                                                                                                                         |                     |          |
| Number of phases                                                                                                                                                              | 3 AC                |          |
| Line voltage                                                                                                                                                                  | 380 ... 480 V ±10 % |          |
| Line frequency                                                                                                                                                                | 47 ... 63 Hz        |          |
| Rated current (LO)                                                                                                                                                            | 17.20 A             |          |
| Rated current (HO)                                                                                                                                                            | 15.30 A             |          |
| Output                                                                                                                                                                        |                     |          |
| Number of phases                                                                                                                                                              | 3 AC                |          |
| Rated voltage                                                                                                                                                                 | 400V IEC            | 480V NEC |
| Rated power (LO)                                                                                                                                                              | 5.50 kW             | 7.50 hp  |
| Rated power (HO)                                                                                                                                                              | 4.00 kW             | 5.00 hp  |
| Rated current (LO)                                                                                                                                                            | 13.20 A             |          |
| Rated current (HO)                                                                                                                                                            | 10.20 A             |          |
| Max. output current                                                                                                                                                           | 20.40 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>1.5 × 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                                                                                                                                                                  | 0.97                |          |
| Sound pressure level (1m)                                                                                                                                                     | 72 dB               |          |
| Power loss                                                                                                                                                                    | 0.15 kW             |          |
| Filter class (integrated)                                                                                                                                                     | Class A             |          |

| Ambient conditions      |                                          |
|-------------------------|------------------------------------------|
| Cooling                 | Internal air cooling                     |
| Cooling air requirement | 0.009 m³/s (0.325 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      |
| Mechanical data         |                                          |
| Degree of protection    | IP20 / UL open type                      |
| Size                    | FSB                                      |
| Net weight              | 3.10 kg (6.83 lb)                        |
| Dimensions              |                                          |
| Width                   | 100 mm (3.94 in)                         |
| Height                  | 292 mm (11.50 in)                        |
| Depth                   | 165 mm (6.50 in)                         |
| Connections             |                                          |
| Line side               |                                          |
| Version                 | Plug-in screw terminals                  |
| Conductor cross-section | 1.50 ... 6.00 mm²<br>(AWG 16 ... AWG 10) |
| Motor end               |                                          |
| Version                 | Plug-in screw terminals                  |
| Conductor cross-section | 1.50 ... 6.00 mm²<br>(AWG 16 ... AWG 10) |
| Max. motor cable length |                                          |
| Shielded                | 50 m (164.04 ft)                         |
| Unshielded              | 100 m (328.08 ft)                        |

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| Converter losses to IEC61800-9-2*                    |         |
|------------------------------------------------------|---------|
| Efficiency class                                     | IE2     |
| Comparison with the reference converter (90% / 100%) | 33.80 % |



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

| Standards                 |                                     |
|---------------------------|-------------------------------------|
| Compliance with standards | UL, cUL, CE, C-Tick (RCM), SEMI F47 |
| CE marking                | Low-voltage directive 2006/95/EC    |