

Article No. : 6SL3210-1RE31-1AL0



Figure similar

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

Item no. :
Consignment no. :
Project :

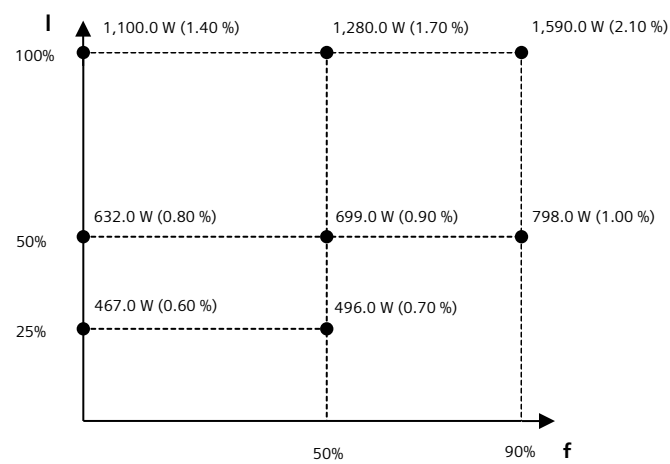
| Rated data | | | |
|--|---------------------|------------------------|--|
| Input | | | |
| Number of phases | 3 AC | | |
| Line voltage | 380 ... 480 V ±10 % | | |
| Line frequency | 47 ... 63 Hz | | |
| Rated current (LO) | 104.00 A | | |
| Rated current (HO) | 94.00 A | | |
| Output | | | |
| Number of phases | 3 AC | | |
| Rated voltage | 400V IEC | 480V NEC ¹⁾ | |
| Rated power (LO) | 55.00 kW | 60.00 hp | |
| Rated power (HO) | 45.00 kW | 50.00 hp | |
| Rated current (LO) | 110.00 A | | |
| Rated current (HO) | 90.00 A | | |
| Max. output current | 149.00 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 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 | 1.63 kW | | |
| Filter class (integrated) | Class A | | |

| 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 (AWG 4 ... AWG -1) |
| Motor end | |
| Version | Screw-type terminals |
| Conductor cross-section | 25.00 ... 70.00 mm² (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 | 28.00 kg (61.73 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, C-Tick (RCM), SEMI F47 |
| CE marking | Low-voltage directive 2006/95/EC |

Data sheet for SINAMICS Power module PM240P-2

Article No. : 6SL3210-1RE31-1AL0

| Converter losses to IEC61800-9-2* | |
|--|---------|
| Efficiency class | IE2 |
| Comparison with the reference converter (90% / 100%) | 44.50 % |



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.

*calculated values

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