SIEMENS

Data sheet for SINAMICS Power module PM230

Article No.: 6SL3223-0DE38-8AA0

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





Figure simila

| Rated data | | | |
|-------------------------------------|-----------------|-------------|--|
| Input | | | |
| Number of phases | 3 AC | | |
| Line voltage | 380 480 V ±10 % | | |
| Line frequency | 47 63 Hz | | |
| Rated current (LO) | 166.00 A | | |
| Rated current (HO) | 135.00 A | | |
| Output | | | |
| Number of phases | 3 AC | | |
| Rated voltage | 400V IEC | 480V NEC 1) | |
| Rated power (LO) | 90.00 kW | 125.00 hp | |
| Rated power (HO) | 75.00 kW | 100.00 hp | |
| Rated current (LO) | 178.00 A | | |
| Rated current (HO) | 145.00 A | | |
| Max. output current | 290.00 A | | |
| Pulse frequency | 4 kHz | | |
| Output frequency for vector control | 0 200 Hz | | |
| Output frequency for V/f control | 0 550 Hz | | |
| Overload capability | | | |

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 1.5 x rated output current (i.e. 150 % overload) for 3 s with a cycle time of 300 s

High Overload (HO)

 $1.5\times$ output current rating (i.e., 150 % overload) for 57 s with a cycle time of 300 s 2 \times output current rating (i.e., 200 % overload) for 3 s with a cycle time of 300 s

| General tech. specifications | | |
|------------------------------|---------|--|
| Power factor λ | 0.90 | |
| Offset factor $\cos\phi$ | 0.95 | |
| Efficiency η | 0.97 | |
| Sound pressure level (1m) | 61 dB | |
| Power loss | 2.30 kW | |
| Filter class (integrated) | Class A | |

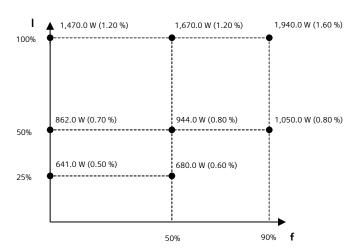
| Ambient conditions | | |
|---------------------------|--|--|
| Cooling | Internal air cooling | |
| Cooling air requirement | 0.117 m³/s (4.132 ft³/s) | |
| Installation altitude | 1,000 m (3,280.84 ft) | |
| Ambient temperature | | |
| Operation LO | 0 40 °C (32 104 °F) | |
| Operation HO | 0 50 °C (32 122 °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 | M8 bolt | |
| Conductor cross-section | 35.00 120.00 mm ² (AWG 2 AWG -3) | |
| Motor end | | |
| Version | M8 bolt | |
| Conductor cross-section | 35.00 120.00 mm ² (AWG 2 AWG -3) | |
| Max. motor cable length | | |
| Shielded | 25 m (82.02 ft) | |
| Unshielded | 100 m (328.08 ft) | |
| Me | echanical data | |
| Degree of protection | IP55 / UL type 12 | |
| Frame size | FSF | |
| Net weight | 70.00 kg (154.32 lb) | |
| Dimensions | | |
| Width | 410 mm (16.14 in) | |
| Height | 915 mm (36.02 in) | |
| Depth | 416 mm (16.38 in) | |
| Standards | | |
| Compliance with standards | CE, C-Tick (RCM) | |
| 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%) | 38.20 % | |



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