SIEMENS

Data sheet for SINAMICS Power Module PM240-2

MLFB-Ordering data

6SL3210-1PH22-3UL0



Client order no. : Item no. :
Order no. : Consignment no. :
Offer no. : Project :
Remarks :

| Rated data | | General tech. specifications | |
|-------------------------------------|-----------------|------------------------------|--|
| Input | | Power factor λ | 0.90 |
| Number of phases | 3 AC | Offset factor cos φ | 0.99 |
| Line voltage | 500 690 V ±10 % | Efficiency η | 0.98 |
| Line frequency | 47 63 Hz | Sound pressure level (1m) | 72 dB |
| Rated current (LO) | 22.00 A | Power loss | 0.48 kW |
| Rated current (HO) | 20.00 A | Filter class (integrated) | - |
| Output | | Ambient conditions | |
| Number of phases | 3 AC | | |
| Rated voltage | 690 V | Cooling | Internal air cooling |
| Rated current (LO) | 23.00 A | Cooling air requirement | 0.055 m ³ /s (1.942 ft ³ /s) |
| Rated current (HO) | 19.00 A | Installation altitude | 1000 m (3280.84 ft) |
| Max. output current | 38.00 A | Ambient temperature | |
| Rated power IEC 690V (LO) | 18.50 kW | Operation LO | -20 40 °C (-4 104 °F) |
| Rated power NEC 600V (LO) | 20.00 hp | Operation HO | -20 50 °C (-4 122 °F) |
| Rated power IEC 690V (HO) | 15.00 kW | Transport | -40 70 °C (-40 158 °F) |
| Rated power NEC 600V (HO) | 15.00 hp | Storage | -40 70 °C (-40 158 °F) |
| Pulse frequency | 2 kHz | Relative humidity | |
| Output frequency for vector control | 0 200 Hz | May anausticu | OF IV DIJ condensation not a service d |
| Output frequency for V/f control | 0 550 Hz | Max. operation | 95 % RH, condensation not permitted |

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

High Overload (HO)

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



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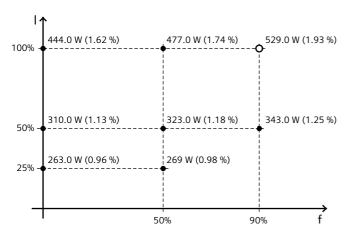
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| Mechanical data | | С | Connections | |
|----------------------|---------------------|-------------------------|-------------------------------|--|
| Degree of protection | IP20 / UL open type | Line side | | |
| Size | FSD | Version | screw-type terminal | |
| Net weight | 17.00 kg (37.48 lb) | Conductor cross-section | 10.00 35.00 mm² (AWG 8 AWG 2) | |
| Width | 200 mm (7.87 in) | Motor end | | |
| Height | 472 mm (18.58 in) | Version | Screw-type terminals | |
| Depth | 237 mm (9.33 in) | Conductor cross-section | 10.00 35.00 mm² (AWG 8 AWG 2) | |

Converter losses to EN 50598-2*

| Efficiency class | IE2 |
|--|----------|
| Comparison with the reference converter (90% / 100%) | -61.78 % |



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

The diagram shows the losses for the points (as per standard EN 50598) 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.

DC link (for braking resistor)

| Version | Screw-type terminals | |
|-------------------------|-------------------------------|--|
| Conductor cross-section | 2.50 16.00 mm² (AWG 14 AWG 6) | |
| Cable length | 10 m (32.81 ft) | |
| PE connection | Screw-type terminals | |
| | | |

Max. motor cable length

| Shielded | 200 m (656.17 ft) |
|------------|-------------------|
| Unshielded | 300 m (984.25 ft) |

Standards

| Compliance with standards | UL, cUL, CE, C-Tick (RCM), SEMI F47 |
|---------------------------|-------------------------------------|
| | |

CE marking Low-voltage directive 2006/95/EC



^{*}converted values