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# Data sheet for SINAMICS Power Module PM230

**Article No. :** **6SL3210-1NE22-6UG1**



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) | 26.90 A | |
| Rated current (HO) | 19.00 A | |
| **Output** | | |
| Number of phases | 3 AC | |
| **Rated voltage** | **400V IEC** | **480V NEC [1)]** |
| Rated power (LO) | 11.00 kW | 15.00 hp |
| Rated power (HO) | 7.50 kW | 10.00 hp |
| Rated current (LO) | 26.00 A | |
| Rated current (HO) | 18.00 A | |
| Max. output current | 39.00 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 1.5 × 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 2 × output current rating (i.e., 200 % overload) for 3 s with a cycle time of 300 s | | |

## General tech. specifications

| | |
|---|---|
| Power factor λ | 0.90 |
| Offset factor cos φ | 0.95 |
| Efficiency η | 0.97 |
| Sound pressure level (1m) | 65 dB |
| Power loss | 0.30 kW |
| Filter class (integrated) | - |

## Ambient conditions

| | |
|---|---|
| Cooling | Internal air cooling |
| Cooling air requirement | 0.019 m³/s (0.671 ft³/s) |
| Installation altitude | 1,000 m (3,280.84 ft) |
| **Ambient temperature** | |
| Operation LO | -10 ... 40 °C (14 ... 104 °F) |
| Operation HO | -10 ... 50 °C (14 ... 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 | Plug-in screw terminals |
| Conductor cross-section | 6.00 ... 16.00 mm² (AWG 10 ... AWG 6) |
| **Motor end** | |
| Version | Plug-in screw terminals |
| Conductor cross-section | 6.00 ... 16.00 mm² (AWG 10 ... AWG 6) |
| **Max. motor cable length** | |
| Shielded | 25 m (82.02 ft) |
| Unshielded | 100 m (328.08 ft) |

## Mechanical data

| | |
|---|---|
| Degree of protection | IP20 / UL open type |
| Frame size | FSC |
| Net weight | 4.50 kg (9.92 lb) |
| **Dimensions** | |
| Width | 140 mm (5.51 in) |
| Height | 355 mm (13.98 in) |
| Depth | 165 mm (6.50 in) |

## Standards

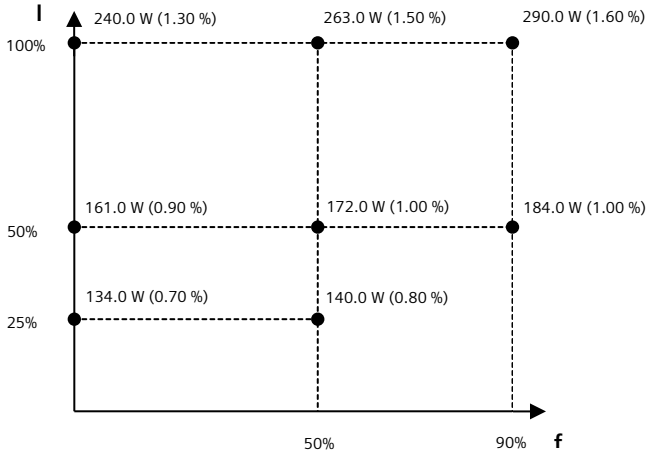
| | |
|---|---|
| Compliance with standards | UL, CE, C-Tick (RCM), KCC |
| CE marking | Low-voltage directive 2006/95/EC |

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# Data sheet for SINAMICS Power Module PM230

**Article No. :** **6SL3210-1NE22-6UG1**

| Converter losses to IEC61800-9-2* | |
|---|---|
| Efficiency class | IE2 |
| Comparison with the reference converter (90% / 100%) | 31.10 % |




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.

*calculated values

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