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Data sheet for SINAMICS Power Module PM230

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Figure similar

MLFB-Ordering data

6SL3210-1NE11-3AL0

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

Item no. :  
Consignment no. :  
Project :

| Rated data                          |                          | General tech. specifications |                                     |
|-------------------------------------|--------------------------|------------------------------|-------------------------------------|
| Input                               |                          | Power factor $\lambda$       | 0.90                                |
| Number of phases                    | 3 AC                     | Offset factor $\cos \varphi$ | 0.95                                |
| Line voltage                        | 380 ... 480 V $\pm 10\%$ | Efficiency $\eta$            | 0.89                                |
| Line frequency                      | 47 ... 63 Hz             | Sound pressure level (1m)    | 50 dB                               |
| Rated current (LO)                  | 1.30 A                   | Power loss                   | 0.04 kW                             |
| Rated current (HO)                  | 0.90 A                   | Filter class (integrated)    | Class A                             |
| Output                              |                          | Ambient conditions           |                                     |
| Number of phases                    | 3 AC                     | Cooling                      | Internal air cooling                |
| Rated voltage                       | 400 V                    | Cooling air requirement      | 0.002 m³/s (0.071 ft³/s)            |
| Rated current (LO)                  | 1.30 A                   | Installation altitude        | 1000 m (3280.84 ft)                 |
| Rated current (HO)                  | 0.90 A                   | Ambient temperature          |                                     |
| Max. output current                 | 2.00 A                   | Operation LO                 | 0 ... 40 °C (32 ... 104 °F)         |
| Rated power IEC 400V (LO)           | 0.37 kW                  | Operation HO                 | 0 ... 50 °C (32 ... 122 °F)         |
| Rated power NEC 480V (LO)           | 0.50 hp                  | Transport                    | -25 ... 55 °C (-13 ... 131 °F)      |
| Rated power IEC 400V (HO)           | 0.25 kW                  | Storage                      | -25 ... 55 °C (-13 ... 131 °F)      |
| Rated power NEC 480V (HO)           | 0.33 hp                  | Relative humidity            |                                     |
| Pulse frequency                     | 4 kHz                    | Max. operation               | 95 % RH, condensation not permitted |
| 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 x rated output current (i.e. 150 % 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 57 s with a cycle time of 300 s  
2 x output current rating (i.e., 200 % overload) for 3 s with a cycle time of 300 s

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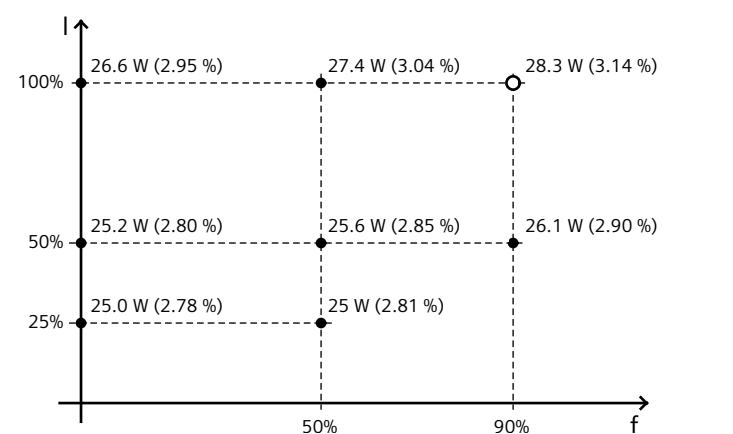
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Figure similar

| Mechanical data         | Connections                           |
|-------------------------|---------------------------------------|
| Degree of protection    | IP20 / UL open type                   |
| Size                    | FSA                                   |
| Net weight              | 1.60 kg (3.53 lb)                     |
| Width                   | 73 mm (2.87 in)                       |
| Height                  | 196 mm (7.72 in)                      |
| Depth                   | 165 mm (6.50 in)                      |
| Line side               |                                       |
| Version                 | Plug-in screw terminals               |
| Conductor cross-section | 1.00 ... 2.50 mm² (AWG 18 ... AWG 14) |
| Motor end               |                                       |
| Version                 | Plug-in screw terminals               |
| Conductor cross-section | 1.00 ... 2.50 mm² (AWG 18 ... AWG 14) |

| Converter losses to EN 50598-2*                      |          |
|------------------------------------------------------|----------|
| Efficiency class                                     | IE2      |
| Comparison with the reference converter (90% / 100%) | -81.38 % |



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.

\*converted values

| Max. motor cable length |                   |
|-------------------------|-------------------|
| Shielded                | 25 m (82.02 ft)   |
| Unshielded              | 100 m (328.08 ft) |

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