

### MLFB-Ordering data

6SL3225-0BE31-8AA0



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

| Rated data                                 |                          | General tech. specifications                   |                                                    |
|--------------------------------------------|--------------------------|------------------------------------------------|----------------------------------------------------|
| <b>Input</b>                               |                          | <b>Power factor <math>\lambda</math></b>       | 0.90                                               |
| <b>Number of phases</b>                    | 3 AC                     | <b>Offset factor <math>\cos \varphi</math></b> | 0.95                                               |
| <b>Line voltage</b>                        | 380 ... 480 V $\pm 10$ % | <b>Efficiency <math>\eta</math></b>            | 0.97                                               |
| <b>Line frequency</b>                      | 47 ... 63 Hz             | <b>Sound pressure level (1m)</b>               | 60 dB                                              |
| <b>Rated current (LO)</b>                  | 42.00 A                  | <b>Power loss</b>                              | 0.52 kW                                            |
| <b>Rated current (HO)</b>                  | 36.00 A                  | <b>Filter class (integrated)</b>               | Class A                                            |
| <b>Output</b>                              |                          | <b>Ambient conditions</b>                      |                                                    |
| <b>Number of phases</b>                    | 3 AC                     | <b>Cooling</b>                                 | Internal air cooling                               |
| <b>Rated voltage</b>                       | 400 V                    | <b>Cooling air requirement</b>                 | 0.022 m <sup>3</sup> /s (0.777 ft <sup>3</sup> /s) |
| <b>Rated current (LO)</b>                  | 45.00 A                  | <b>Installation altitude</b>                   | 1000 m (3280.84 ft)                                |
| <b>Rated current (HO)</b>                  | 38.00 A                  | <b>Ambient temperature</b>                     |                                                    |
| <b>Max. output current</b>                 | 76.00 A                  | <b>Operation LO</b>                            | 0 ... 40 °C (32 ... 104 °F)                        |
| <b>Rated power IEC 400V (LO)</b>           | 22.00 kW                 | <b>Operation HO</b>                            | 0 ... 50 °C (32 ... 122 °F)                        |
| <b>Rated power NEC 480V (LO)</b>           | 30.00 hp                 | <b>Transport</b>                               | -25 ... 55 °C (-13 ... 131 °F)                     |
| <b>Rated power IEC 400V (HO)</b>           | 18.50 kW                 | <b>Storage</b>                                 | -25 ... 55 °C (-13 ... 131 °F)                     |
| <b>Rated power NEC 480V (HO)</b>           | 25.00 hp                 | <b>Relative humidity</b>                       |                                                    |
| <b>Pulse frequency</b>                     | 4 kHz                    | <b>Max. operation</b>                          | 95 % RH, condensation not permitted                |
| <b>Output frequency for vector control</b> | 0 ... 200 Hz             |                                                |                                                    |
| <b>Output frequency for V/f control</b>    | 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

SIEMENS

Data sheet for SINAMICS Power Module PM250

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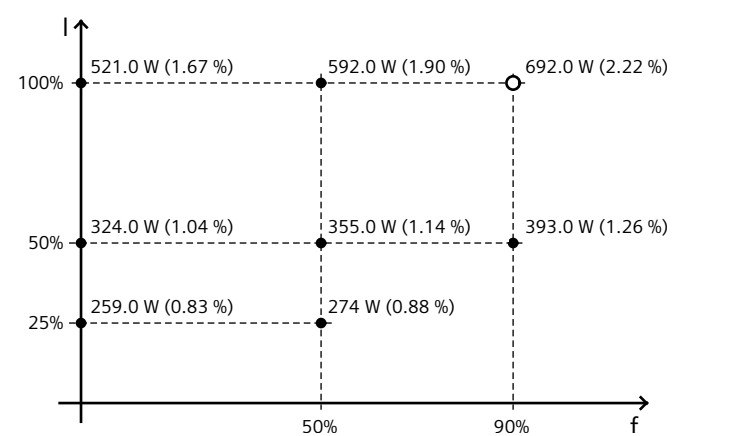


Figure similar

| Mechanical data         | Connections                           |
|-------------------------|---------------------------------------|
| Degree of protection    | IP20 / UL open type                   |
| Size                    | FSD                                   |
| Net weight              | 15.00 kg (33.07 lb)                   |
| Width                   | 275 mm (10.83 in)                     |
| Height                  | 512 mm (20.16 in)                     |
| Depth                   | 204 mm (8.03 in)                      |
| Line side               |                                       |
| Version                 | M6 bolt                               |
| Conductor cross-section | 10.00 ... 35.00 mm² (AWG 8 ... AWG 2) |
| Motor end               |                                       |
| Version                 | M6 bolt                               |
| 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%) | -55.33 % |



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                | 50 m (164.04 ft)  |
| Unshielded              | 100 m (328.08 ft) |

Standards

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