



Figure similar

### MLFB-Ordering data

6SL3223-0DE31-8BA0

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>	56 dB
<b>Rated current (LO)</b>	39.00 A	<b>Power loss</b>	0.52 kW
<b>Rated current (HO)</b>	33.00 A	<b>Filter class (integrated)</b>	Class B
<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>	0.039 m <sup>3</sup> /s (1.377 ft <sup>3</sup> /s)
<b>Rated current (LO)</b>	38.00 A	<b>Installation altitude</b>	1000 m (3280.84 ft)
<b>Rated current (HO)</b>	32.00 A	<b>Ambient temperature</b>	
<b>Max. output current</b>	64.00 A	<b>Operation LO</b>	0 ... 40 °C (32 ... 104 °F)
<b>Rated power IEC 400V (LO)</b>	18.50 kW	<b>Operation HO</b>	0 ... 50 °C (32 ... 122 °F)
<b>Rated power NEC 480V (LO)</b>	25.00 hp	<b>Transport</b>	-25 ... 55 °C (-13 ... 131 °F)
<b>Rated power IEC 400V (HO)</b>	15.00 kW	<b>Storage</b>	-25 ... 55 °C (-13 ... 131 °F)
<b>Rated power NEC 480V (HO)</b>	20.00 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 PM230

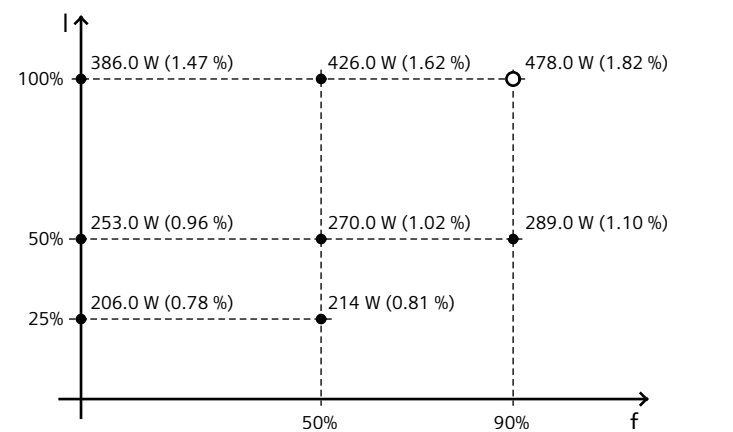
MLFB-Ordering data

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Mechanical data		Connections	
Degree of protection		Line side	
IP55 / UL type 12			
Size		Version	
FSD		M6 bolt	
Net weight		Conductor cross-section	
31.00 kg (68.34 lb)		16.00 ... 35.00 mm² (AWG 6 ... AWG 2)	
Width		Motor end	
320 mm (12.60 in)			
Height		Version	
640 mm (25.20 in)		M6 bolt	
Depth		Conductor cross-section	
329 mm (12.95 in)		16.00 ... 35.00 mm² (AWG 6 ... AWG 2)	

Converter losses to EN 50598-2*	
Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-63.96 %



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