

MLFB-Ordering data

6SL3211-1PE31-1UL0



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Rated data		General tech. specifications	
Input		Power factor λ	0.95
Number of phases	3 AC	Offset factor $\cos \varphi$	0.99
Line voltage	380 ... 480 V ± 10 %	Efficiency η	0.97
Line frequency	47 ... 63 Hz	Sound pressure level (1m)	62 dB
Rated current (LO)	104.00 A	Power loss	1.61 kW
Rated current (HO)	94.00 A	Filter class (integrated)	-
Output		Ambient conditions	
Number of phases	3 AC	Cooling	Internal air cooling
Rated voltage	400 V	Cooling air requirement	0.083 m ³ /s (2.931 ft ³ /s)
Rated current (LO)	110.00 A	Installation altitude	1000 m (3280.84 ft)
Rated current (HO)	90.00 A	Ambient temperature	
Max. output current	180.00 A	Operation LO	-20 ... 40 °C (-4 ... 104 °F)
Rated power IEC 400V (LO)	55.00 kW	Operation HO	-20 ... 50 °C (-4 ... 122 °F)
Rated power NEC 480V (LO)	75.00 hp	Transport	-40 ... 70 °C (-40 ... 158 °F)
Rated power IEC 400V (HO)	45.00 kW	Storage	-40 ... 70 °C (-40 ... 158 °F)
Rated power NEC 480V (HO)	60.00 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

SIEMENS

Data sheet for SINAMICS Power Module PM240-2

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Figure similar

Mechanical data																																					
Degree of protection	IP20 / UL open type																																				
Size	FSE																																				
Net weight	30.50 kg (67.24 lb)																																				
Width	354 mm (13.94 in)																																				
Height	615 mm (24.21 in)																																				
Depth	237 mm (9.33 in)																																				
Converter losses to EN 50598-2*																																					
Efficiency class	IE2																																				
Comparison with the reference converter (90% / 100%)	-0.50 %																																				
<table><tr><th>Relative torque (I)</th><th>Relative motor stator frequency (f)</th><th>Losses (W)</th><th>Losses (%)</th></tr><tr><td>100%</td><td>50%</td><td>1195.2 W</td><td>1.57 %</td></tr><tr><td>100%</td><td>90%</td><td>1358.9 W</td><td>1.78 %</td></tr><tr><td>100%</td><td>90%</td><td>1608.1 W</td><td>2.11 %</td></tr><tr><td>50%</td><td>50%</td><td>663.7 W</td><td>0.87 %</td></tr><tr><td>50%</td><td>90%</td><td>727.5 W</td><td>0.95 %</td></tr><tr><td>50%</td><td>90%</td><td>813.2 W</td><td>1.07 %</td></tr><tr><td>25%</td><td>50%</td><td>484.1 W</td><td>0.64 %</td></tr><tr><td>25%</td><td>90%</td><td>513 W</td><td>0.67 %</td></tr></table>		Relative torque (I)	Relative motor stator frequency (f)	Losses (W)	Losses (%)	100%	50%	1195.2 W	1.57 %	100%	90%	1358.9 W	1.78 %	100%	90%	1608.1 W	2.11 %	50%	50%	663.7 W	0.87 %	50%	90%	727.5 W	0.95 %	50%	90%	813.2 W	1.07 %	25%	50%	484.1 W	0.64 %	25%	90%	513 W	0.67 %
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Connections	
Line side	
Version	screw-type terminal
Conductor cross-section	25.00 ... 70.00 mm² (AWG 4 ... AWG -1)
Motor end	
Version	Screw-type terminals
Conductor cross-section	25.00 ... 70.00 mm² (AWG 4 ... AWG -1)
DC link (for braking resistor)	
Version	Screw-type terminals
Conductor cross-section	10.00 ... 35.00 mm² (AWG 8 ... AWG 2)
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

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