

MLFB-Ordering data

6SL3210-1PE23-8AL0



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Rated data	General tech. specifications																																														
Input <table> <tr> <td>Number of phases</td><td>3 AC</td></tr> <tr> <td>Line voltage</td><td>380 ... 480 V ± 10 %</td></tr> <tr> <td>Line frequency</td><td>47 ... 63 Hz</td></tr> <tr> <td>Rated current (LO)</td><td>36.00 A</td></tr> <tr> <td>Rated current (HO)</td><td>33.00 A</td></tr> </table>	Number of phases	3 AC	Line voltage	380 ... 480 V ± 10 %	Line frequency	47 ... 63 Hz	Rated current (LO)	36.00 A	Rated current (HO)	33.00 A	<table> <tr> <td>Power factor λ</td><td>0.95</td></tr> <tr> <td>Offset factor $\cos \varphi$</td><td>0.99</td></tr> <tr> <td>Efficiency η</td><td>0.98</td></tr> <tr> <td>Sound pressure level (1m)</td><td>72 dB</td></tr> <tr> <td>Power loss</td><td>0.56 kW</td></tr> <tr> <td>Filter class (integrated)</td><td>Class A</td></tr> </table>	Power factor λ	0.95	Offset factor $\cos \varphi$	0.99	Efficiency η	0.98	Sound pressure level (1m)	72 dB	Power loss	0.56 kW	Filter class (integrated)	Class A																								
Number of phases	3 AC																																														
Line voltage	380 ... 480 V ± 10 %																																														
Line frequency	47 ... 63 Hz																																														
Rated current (LO)	36.00 A																																														
Rated current (HO)	33.00 A																																														
Power factor λ	0.95																																														
Offset factor $\cos \varphi$	0.99																																														
Efficiency η	0.98																																														
Sound pressure level (1m)	72 dB																																														
Power loss	0.56 kW																																														
Filter class (integrated)	Class A																																														
Output <table> <tr> <td>Number of phases</td><td>3 AC</td></tr> <tr> <td>Rated voltage</td><td>400 V</td></tr> <tr> <td>Rated current (LO)</td><td>38.00 A</td></tr> <tr> <td>Rated current (HO)</td><td>32.00 A</td></tr> <tr> <td>Max. output current</td><td>64.00 A</td></tr> <tr> <td>Rated power IEC 400V (LO)</td><td>18.50 kW</td></tr> <tr> <td>Rated power NEC 480V (LO)</td><td>25.00 hp</td></tr> <tr> <td>Rated power IEC 400V (HO)</td><td>15.00 kW</td></tr> <tr> <td>Rated power NEC 480V (HO)</td><td>20.00 hp</td></tr> <tr> <td>Pulse frequency</td><td>4 kHz</td></tr> <tr> <td>Output frequency for vector control</td><td>0 ... 200 Hz</td></tr> <tr> <td>Output frequency for V/f control</td><td>0 ... 550 Hz</td></tr> </table>	Number of phases	3 AC	Rated voltage	400 V	Rated current (LO)	38.00 A	Rated current (HO)	32.00 A	Max. output current	64.00 A	Rated power IEC 400V (LO)	18.50 kW	Rated power NEC 480V (LO)	25.00 hp	Rated power IEC 400V (HO)	15.00 kW	Rated power NEC 480V (HO)	20.00 hp	Pulse frequency	4 kHz	Output frequency for vector control	0 ... 200 Hz	Output frequency for V/f control	0 ... 550 Hz	<table> <tr> <th colspan="2">Ambient conditions</th></tr> <tr> <td>Cooling</td><td>Internal air cooling</td></tr> <tr> <td>Cooling air requirement</td><td>0.055 m³/s (1.942 ft³/s)</td></tr> <tr> <td>Installation altitude</td><td>1000 m (3280.84 ft)</td></tr> <tr> <th colspan="2">Ambient temperature</th></tr> <tr> <td>Operation LO</td><td>-20 ... 40 °C (-4 ... 104 °F)</td></tr> <tr> <td>Operation HO</td><td>-20 ... 50 °C (-4 ... 122 °F)</td></tr> <tr> <td>Transport</td><td>-40 ... 70 °C (-40 ... 158 °F)</td></tr> <tr> <td>Storage</td><td>-40 ... 70 °C (-40 ... 158 °F)</td></tr> <tr> <th colspan="2">Relative humidity</th></tr> <tr> <td>Max. operation</td><td>95 % RH, condensation not permitted</td></tr> </table>	Ambient conditions		Cooling	Internal air cooling	Cooling air requirement	0.055 m ³ /s (1.942 ft ³ /s)	Installation altitude	1000 m (3280.84 ft)	Ambient temperature		Operation LO	-20 ... 40 °C (-4 ... 104 °F)	Operation HO	-20 ... 50 °C (-4 ... 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
Number of phases	3 AC																																														
Rated voltage	400 V																																														
Rated current (LO)	38.00 A																																														
Rated current (HO)	32.00 A																																														
Max. output current	64.00 A																																														
Rated power IEC 400V (LO)	18.50 kW																																														
Rated power NEC 480V (LO)	25.00 hp																																														
Rated power IEC 400V (HO)	15.00 kW																																														
Rated power NEC 480V (HO)	20.00 hp																																														
Pulse frequency	4 kHz																																														
Output frequency for vector control	0 ... 200 Hz																																														
Output frequency for V/f control	0 ... 550 Hz																																														
Ambient conditions																																															
Cooling	Internal air cooling																																														
Cooling air requirement	0.055 m ³ /s (1.942 ft ³ /s)																																														
Installation altitude	1000 m (3280.84 ft)																																														
Ambient temperature																																															
Operation LO	-20 ... 40 °C (-4 ... 104 °F)																																														
Operation HO	-20 ... 50 °C (-4 ... 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																																														

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

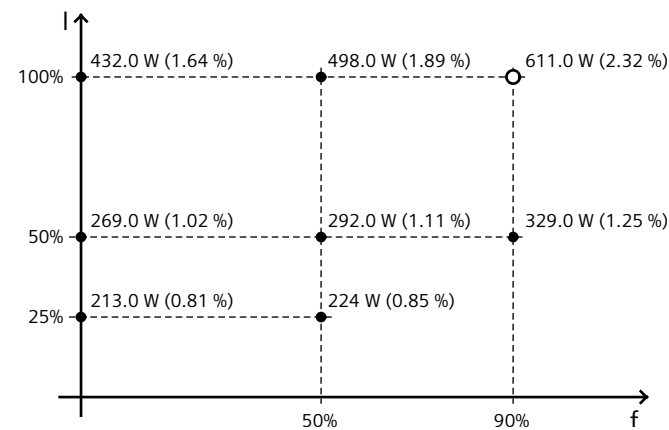


MLFB-Ordering data

6SL3210-1PE23-8AL0

Mechanical data	Connections
Degree of protection	Line side
Size	Version
Net weight	Conductor cross-section
Width	Motor end
Height	Version
Depth	Conductor cross-section

Converter losses to EN 50598-2*	
Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-54.06 %



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

DC link (for braking resistor)	
Version	Screw-type terminals
Conductor cross-section	2.50 ... 16.00 mm ² (AWG 14 ... AWG 6)
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