

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6SL3210-1PE21-8UL0

THREE PHASE DRIVE POWER MODULE

Used with the applicable SINAMICS G120 PM240-2 configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens 6SL3210-1PE21-8UL0 official product technical data, applicable pages 1, 2, 3

Ordering data

6SL3210-1PE21-8UL0



Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Rated data		General tech. specifications	
Input		Power factor λ	0.85
Number of phases	3 AC	Offset factor $\cos \varphi$	0.95
Line voltage	380 ... 480 V ± 10 %	Efficiency η	0.97
Line frequency	47 ... 63 Hz	Sound pressure level (1m)	62 dB
Rated current (LO)	22.20 A	Power loss	0.20 kW
Rated current (HO)	19.80 A	Ambient conditions	
Output		Cooling	Internal air cooling
Number of phases	3 AC	Cooling air requirement	0.009 m ³ /s
Rated voltage	400 V	Installation altitude	1000 m
Rated power (LO)	7.50 kW	Ambient temperature	
Rated power (HO)	5.50 kW	Operation LO	-5 ... 40 °C (23 ... 104 °F)
Rated current (LO)	18.00 A	Operation HO	-5 ... 50 °C (23 ... 122 °F)
Rated current (HO)	13.20 A	Transport	-40 ... 70 °C (-40 ... 158 °F)
Max. output current	27.00 A	Storage	-25 ... 55 °C (-13 ... 131 °F)
Pulse frequency	4 kHz	Relative humidity	
Output frequency for vector control	0 ... 200 Hz	Max. operation	95 % RH, condensation not permitted
Output frequency for V/f control	0 ... 550 Hz		

Overload capability

Low Overload (LO)

1.1 × output current rating (i.e., 110 % overload) for 57 s with a cycle time of 300 s 1.5 × output current rating (i.e., 150 % overload) for 3 s with a cycle time of 300 s

High Overload (HO)

1.5 × output current rating (i.e., 150 % overload) for 57 s with a cycle time of 300 s 2 × output current rating (i.e., 200 % overload) for 3 s with a cycle time of 300 s

Ordering data

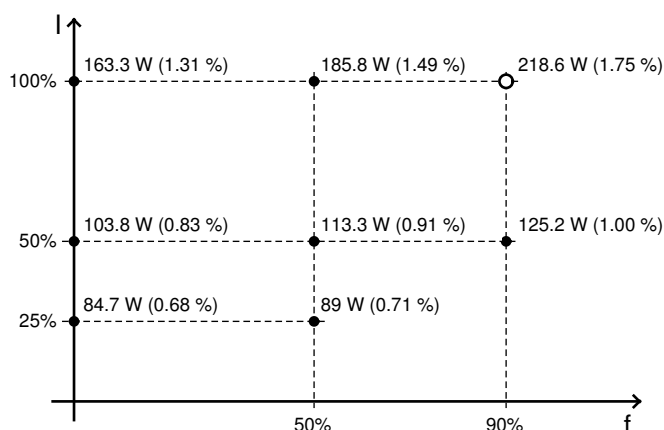
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Mechanical data		Connections	
Degree of protection	IP20	Line side	
Size	FSB	Version	Plug-in screw-type terminals
Net weight	3.00 kg	Conductor cross-section	1.50 ... 6.00 mm ²
Width	100.0 mm	Motor end	
Height	292.0 mm	Version	Plug-in screw-type terminals
Depth	165.0 mm	Conductor cross-section	1.50 ... 6.00 mm ²

Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-70.14 %



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.

*calculated values; increased by 10% according to the standard

Max. motor cable length

Shielded	50 m
Unshielded	100 m

Standards

Compliance with standards	UL, cUL, CE, C-Tick, SEMI F47
CE marking	According to low-voltage directive 2006/95/EC