## **SIEMENS**

## Data sheet for SINAMICS Power module PM240-2

6SL3210-1PE12-3UL1 Article No.:

Client order no. : Order no. : Offer no.: Remarks :

Item no. :  $Consignment\ no.:$ Project :



Rated data					
Input					
	Number of phases	3 AC			
	Line voltage	380 480 V ±10 °	<b>%</b>		
	Line frequency	47 63 Hz			
	Rated current (LO)	2.90 A			
	Rated current (HO)	2.60 A			
Output					
	Number of phases	3 AC			
	Rated voltage	400V IEC	480V NEC 1)		
	Rated power (LO)	0.75 kW	1.00 hp		
	Rated power (HO)	0.55 kW	0.75 hp		
	Rated current (LO)	2.20 A			
	Rated current (HO)	1.70 A			
	Max. output current	3.40 A			
	Pulse frequency	4 kHz			
	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  $\times$  rated output current (i.e. 150 % overload) for 3 s with a cycle time

High Overload (HO)

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

General tech. specifications				
Power factor λ	0.85			
Offset factor $\cos\phi$	0.95			
Efficiency η	0.96			
Sound pressure level (1m)	72 dB			
Power loss	0.04 kW			
Filter class (integrated)	-			

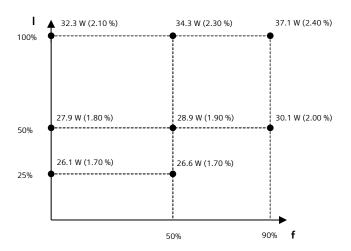
Ambient conditions			
Cooling	Internal air cooling		
Cooling air requirement	0.005 m³/s (0.177 ft³/s)		
Installation altitude	1,000 m (3,280.84 ft)		
Ambient temperature			
Operation LO	-10 40 °C (14 104 °F)		
Operation HO	-10 50 °C (14 122 °F)		
Transport	-25 55 °C (-13 131 °F)		
Storage	-25 55 °C (-13 131 °F)		
Relative humidity			
Max. operation	95 % RH, condensation not permitted		
Connections			
Line side			
Version	Plug-in screw terminals		
Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14)		
Motor end			
Version	Plug-in screw terminals		
Conductor cross-section	1.00 2.50 mm <sup>2</sup> (AWG 18 AWG 14)		
Max. motor cable length			
Shielded	50 m (164.04 ft)		
Unshielded	100 m (328.08 ft)		
Mechanical data			
Degree of protection	IP20 / UL open type		
Frame size	FSA		
Net weight	1.40 kg (3.09 lb)		
Dimensions			
Width	73 mm (2.87 in)		
Height	196 mm (7.72 in)		
Depth	165 mm (6.50 in)		
Standards			
Compliance with standards	UL, cUL, CE, C-Tick (RCM), SEMI F47		
CE marking	Low-voltage directive 2006/95/EC		



## Data sheet for SINAMICS Power module PM240-2

Article No.: 6SL3210-1PE12-3UL1

Converter losses to IEC61800-9-2*		
Efficiency class	IE2	
Comparison with the reference converter (90% / 100%)	25.60 %	



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 IEC61800-9-2) 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

<sup>&</sup>lt;sup>1)</sup>The output current and HP ratings are valid for the voltage range 440V-480V