10.6 Technical data, PM240-2 Power Module

Protective devices for the Power Module

The fuses listed in the following tables are examples of suitable fuses.

Additional components for branch protection are available in the Internet:

Branch protection and short-circuit strength according to UL and IEC (https://support.industry.siemens.com/cs/ww/en/view/109486009)

Typical inverter load cycles

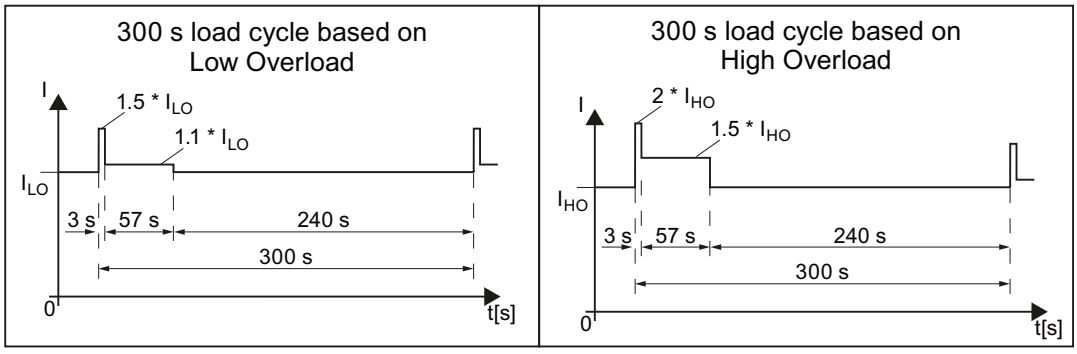

Figure 10-5 "Low Overload" and "High Overload" load cycles

10.6.1 Ambient conditions

Property	Version
Ambient conditions for transport in the transport packaging	
Climatic ambient conditions	- 40 °C … + 70 °C, according to Class 2K4 to EN 60721-3-2 maximum humidity 95% at 40 °C
Mechanical ambient conditions	Shock and vibration permissible according to 1M2 to EN 60721-3-2
Protection against chemical substances	Protected according to Class 2C2 to EN 60721-3-2
Biological ambient conditions	Suitable according to Class 2B1 to EN 60721-3-2
Ambient conditions for long-term storage in the product packaging	
Climatic ambient conditions	- 25 °C … + 55 °C, according to Class 1K3 to EN 60721-3-1
Protection against chemical substances	Protected according to Class 1C2 to EN 60721-3-1
Biological ambient conditions	Suitable according to class 1B1 to EN 60721-3-1
Ambient conditions in operation	

Table 10-58 PM240-2, IP20, frame size D, 380 V … 480 V 3 AC

Article No. without filter **Article No. with filter**	**6SL3210-1PE27-5UL0** **6SL3210-1PE27-5AL0**
LO base load power	37 kW
LO base load input current	70 A
LO base load output current	75 A
HO base load power	30 kW
HO base load input current	62 A
HO base load output current	60 A
Fuse according to IEC Fuse according to UL, class J	3NA3830 (100 A) 100 A
Power loss without filter	1.09 kW
Power loss with filter	1.10 kW
Required cooling air flow	55 l/s
Weight without filter	17 kg
Weight with filter	18.5 kg

Table 10-59 PM240-2, PT, frame size D, 380 V … 480 V 3 AC

Article No. without filter **Article No. with filter**	**6SL3211-1PE27-5UL0** **6SL3211-1PE27-5AL0**
LO base load power	37 kW
LO base load input current	70 A
LO base load output current	75 A
HO base load power	30 kW
HO base load input current	62 A
HO base load output current	60 A
Fuse according to IEC Fuse according to UL, class J	3NA3830 (100 A) 100 A
Power loss without filter	1.09 kW [1]
Power loss with filter	1.10 kW [1]
Required cooling air flow	55 l/s
Weight without filter	20 kg
Weight with filter	21.5 kg

[1] Approx. 1 kW through the heatsink