

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

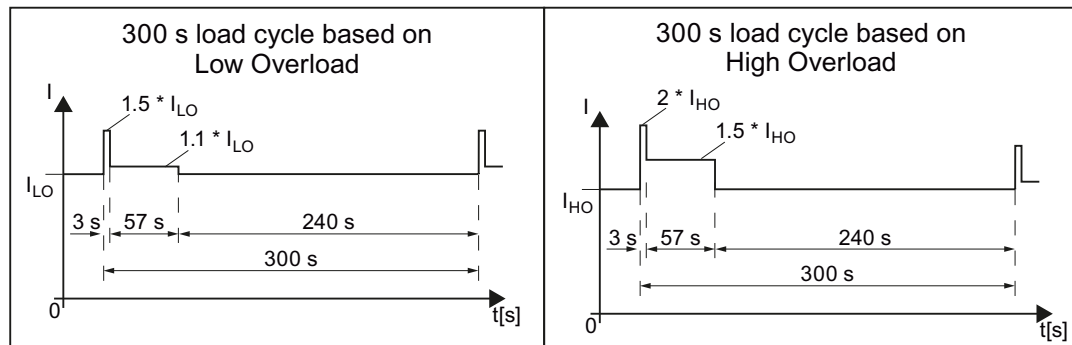


Figure 10-5 "Low Overload" and "High Overload" load cycles

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 10-56 PM240-2, PT, frame size C, 380 V ... 480 V 3 AC

Article No. without filter	6SL3211-1PE23-3UL0
Article No. with filter	6SL3211-1PE23-3AL0
LO base load power	15.0 kW
LO base load input current	39.9 A
LO base load output current	32.0 A
HO base load power	11.0 kW
HO base load input current	36.0 A
HO base load output current	26.0 A
Fuse according to IEC	3NA3820 (50 A)
Fuse according to UL, class J	50 A
Power loss	0.37 kW ¹⁾
Required cooling air flow	18.5 l/s
Weight without filter	5.8 kg
Weight with filter	6.3 kg

1) approx. 0.3 kW through the heatsink

Table 10-57 PM240-2, IP20, frame size D, 380 V ... 480 V 3 AC

Article No. without filter	6SL3210-1PE23-8UL0	6SL3210-1PE24-5UL0	6SL3210-1PE26-0UL0
Article No. with filter	6SL3210-1PE23-8AL0	6SL3210-1PE24-5AL0	6SL3210-1PE26-0AL0
LO base load power	18.5 kW	22 kW	30 kW
LO base load input current	36 A	42 A	57 A
LO base load output current	38 A	45 A	60 A
HO base load power	15 kW	18.5 kW	22 kW
HO base load input current	33 A	38 A	47 A
HO base load output current	32 A	38 A	45 A
Fuse according to IEC	3NA3822 (63 A)	3NA3824 (80 A)	3NA3830 (100 A)
Fuse according to UL, class J	60 A	70 A	90 A
Power loss without filter	0.57 kW	0.70 kW	0.82 kW
Power loss with filter	0.58 kW	0.71 kW	0.83 kW
Required cooling air flow	55 l/s	55 l/s	55 l/s
Weight without filter	16 kg	16 kg	17 kg
Weight with filter	17.5 kg	17.5 kg	18.5 kg