

## 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

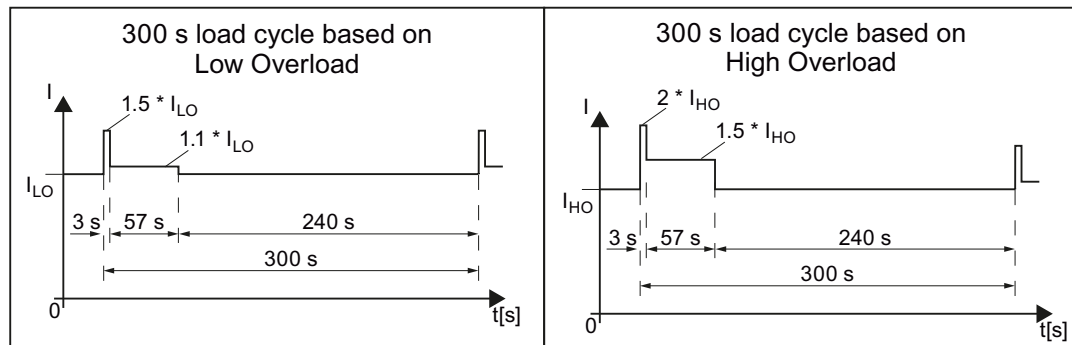


Figure 10-5 "Low Overload" and "High Overload" load cycles

### 10.6.1 Ambient conditions

| Property                                                                 | Version                                                                                      |
|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <b>Ambient conditions for transport in the transport packaging</b>       |                                                                                              |
| Climatic ambient conditions                                              | - 40 °C ... + 70 °C, according to Class 2K4 to EN 60721-3-2<br>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                                              |
| <b>Ambient conditions for long-term storage in the product packaging</b> |                                                                                              |
| 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                                              |
| <b>Ambient conditions in operation</b>                                   |                                                                                              |

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Table 10-42 PM240-2, IP 20, frame size C, 200 V ... 240 V 3 AC

| Article No. without filter<br>Article No. with filter  | 6SL3210-1PC22-2UL0<br>6SL3210-1PC22-2AL0 | 6SL3210-1PC22-8UL0<br>6SL3210-1PC22-8AL0 |
|--------------------------------------------------------|------------------------------------------|------------------------------------------|
| LO base load power                                     | 5.5 kW                                   | 7.5 kW                                   |
| LO base load input current                             | 28.6 A                                   | 36.4 A                                   |
| LO base load output current                            | 22.0 A                                   | 28.0 A                                   |
| HO base load power                                     | 4 kW                                     | 5.5 kW                                   |
| HO base load input current                             | 22.8 A                                   | 28.6 A                                   |
| HO base load output current                            | 17.5 A                                   | 22.0 A                                   |
| Fuse according to IEC<br>Fuse according to UL, class J | 3NA3820 (50 A)<br>50 A                   | 3NA3820 (50 A)<br>50 A                   |
| Power loss                                             | 0.2 kW                                   | 0.26 kW                                  |
| Required cooling air flow                              | 18.5 l/s                                 | 18.5 l/s                                 |
| Weight without filter                                  | 5.0 kg                                   | 5.0 kg                                   |
| Weight with filter                                     | 5.2 kg                                   | 5.2 kg                                   |

Table 10-43 PM240-2, PT, frame size C, 200 V ... 240 V 3 AC

| Article No. without filter<br>Article No. with filter  | 6SL3211-1PC22-2UL0<br>6SL3211-1PC22-2AL0 | 6SL3211-1PC22-8UL0<br>6SL3211-1PC22-8AL0 |
|--------------------------------------------------------|------------------------------------------|------------------------------------------|
| LO base load power                                     | 5.5 kW                                   | 7.5 kW                                   |
| LO base load input current                             | 28.6 A                                   | 36.4 A                                   |
| LO base load output current                            | 22.0 A                                   | 28.0 A                                   |
| HO base load power                                     | 4 kW                                     | 5.5 kW                                   |
| HO base load input current                             | 22.8 A                                   | 28.6 A                                   |
| HO base load output current                            | 17.5 A                                   | 22.0 A                                   |
| Fuse according to IEC<br>Fuse according to UL, class J | 3NA3820 (50 A)<br>50 A                   | 3NA3820 (50 A)<br>50 A                   |
| Power loss                                             | 0.2 kW <sup>1)</sup>                     | 0.26 kW <sup>2)</sup>                    |
| Required cooling air flow                              | 18.5 l/s                                 | 18.5 l/s                                 |
| Weight without filter                                  | 5.9 kg                                   | 5.9 kg                                   |
| Weight with filter                                     | 6.2 kg                                   | 6.2 kg                                   |

<sup>1)</sup> approx. 0.2 kW through the heatsink

<sup>2)</sup> approx. 0.25 kW through the heatsink