

## Data sheet for SINAMICS Power module PM240-2

Article No. : 6SL3210-1PC22-2UL0



Figure similar

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

Item no. :  
Consignment no. :  
Project :

### Rated data

|                    |                     |
|--------------------|---------------------|
| <b>Input</b>       |                     |
| Number of phases   | 3 AC                |
| Line voltage       | 200 ... 240 V ±10 % |
| Line frequency     | 47 ... 63 Hz        |
| Rated current (LO) | 29.00 A             |
| Rated current (HO) | 26.20 A             |

|                                     |                                             |
|-------------------------------------|---------------------------------------------|
| <b>Output</b>                       |                                             |
| Number of phases                    | 3 AC                                        |
| <b>Rated voltage</b>                | <b>230V IEC      240V NEC <sup>1)</sup></b> |
| Rated power (LO)                    | 5.50 kW      7.50 hp                        |
| Rated power (HO)                    | 4.00 kW      5.00 hp                        |
| Rated current (LO)                  | 22.00 A                                     |
| Rated current (HO)                  | 17.50 A                                     |
| Max. output current                 | 35.00 A                                     |
| Pulse frequency                     | 4 kHz                                       |
| Output frequency for vector control | 0 ... 200 Hz                                |
| Output frequency for V/f control    | 0 ... 550 Hz                                |

|                                                                                                                                                                               |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Overload capability</b>                                                                                                                                                    |  |
| Low Overload (LO)                                                                                                                                                             |  |
| 1.1 × rated output current (i.e. 110 % overload) for 57 s with a cycle time of 300 s<br>1.5 × rated output current (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<br>2 × 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 φ       | 0.95    |
| Efficiency η              | 0.97    |
| Sound pressure level (1m) | 65 dB   |
| Power loss                | 0.20 kW |
| Filter class (integrated) | -       |

### Ambient conditions

|                            |                                |
|----------------------------|--------------------------------|
| Cooling                    | Internal air cooling           |
| Cooling air requirement    | 0.018 m³/s (0.653 ft³/s)       |
| Installation altitude      | 1,000 m (3,280.84 ft)          |
| <b>Ambient temperature</b> |                                |
| Operation LO               | -5 ... 40 °C (23 ... 104 °F)   |
| Operation HO               | -5 ... 50 °C (23 ... 122 °F)   |
| Transport                  | -25 ... 55 °C (-13 ... 131 °F) |
| Storage                    | -25 ... 55 °C (-13 ... 131 °F) |

|                          |                                     |
|--------------------------|-------------------------------------|
| <b>Relative humidity</b> |                                     |
| Max. operation           | 95 % RH, condensation not permitted |

### Connections

|                         |                                          |
|-------------------------|------------------------------------------|
| <b>Line side</b>        |                                          |
| Version                 | Plug-in screw terminals                  |
| Conductor cross-section | 6.00 ... 16.00 mm²<br>(AWG 10 ... AWG 6) |
| <b>Motor end</b>        |                                          |
| Version                 | Plug-in screw terminals                  |
| Conductor cross-section | 6.00 ... 16.00 mm²<br>(AWG 10 ... AWG 6) |

|                                |                   |
|--------------------------------|-------------------|
| <b>Max. motor cable length</b> |                   |
| Shielded                       | 50 m (164.04 ft)  |
| Unshielded                     | 100 m (328.08 ft) |

### Mechanical data

|                      |                     |
|----------------------|---------------------|
| Degree of protection | IP20 / UL open type |
| Frame size           | FSC                 |
| Net weight           | 5.00 kg (11.02 lb)  |
| <b>Dimensions</b>    |                     |
| Width                | 140 mm (5.51 in)    |
| Height               | 355 mm (13.98 in)   |
| Depth                | 165 mm (6.50 in)    |

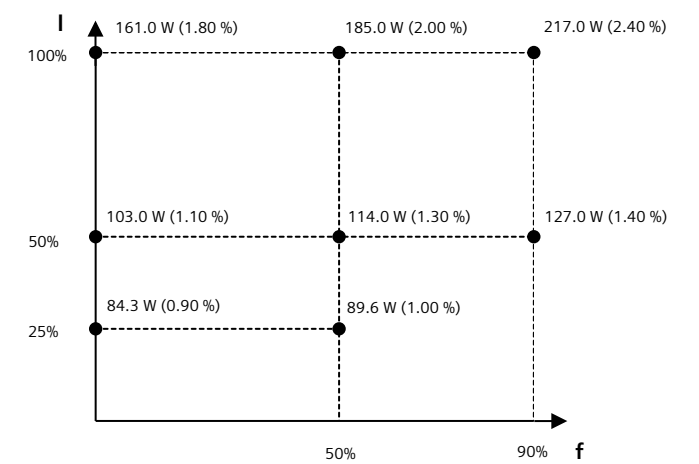
### Standards

|                           |                                     |
|---------------------------|-------------------------------------|
| 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. : 6SL3210-1PC22-2UL0

| Converter losses to IEC61800-9-2*                    |         |
|------------------------------------------------------|---------|
| Efficiency class                                     | IE2     |
| Comparison with the reference converter (90% / 100%) | 40.60 % |



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.

\*converted values

<sup>1)</sup>The output current and HP ratings are valid for the voltage range 220V-240V