

## Data sheet for SINAMICS Power module PM240-2

Article No. : 6SL3210-1PC22-8AL0



Figure similar

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

Item no. :  
Consignment no. :  
Project :

### Rated data

#### Input

|                    |                          |
|--------------------|--------------------------|
| Number of phases   | 3 AC                     |
| Line voltage       | 200 ... 240 V $\pm$ 10 % |
| Line frequency     | 47 ... 63 Hz             |
| Rated current (LO) | 37.00 A                  |
| Rated current (HO) | 33.00 A                  |

#### Output

|                                     |                 |                               |
|-------------------------------------|-----------------|-------------------------------|
| Number of phases                    | 3 AC            |                               |
| <b>Rated voltage</b>                | <b>230V IEC</b> | <b>240V NEC <sup>1)</sup></b> |
| Rated power (LO)                    | 7.50 kW         | 10.00 hp                      |
| Rated power (HO)                    | 5.50 kW         | 7.50 hp                       |
| Rated current (LO)                  | 28.00 A         |                               |
| Rated current (HO)                  | 22.00 A         |                               |
| Max. output current                 | 44.00 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 x rated output current (i.e. 150 % overload) for 3 s with a cycle time of 300 s

##### High Overload (HO)

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

### General tech. specifications

|                              |         |
|------------------------------|---------|
| Power factor $\lambda$       | 0.85    |
| Offset factor $\cos \varphi$ | 0.95    |
| Efficiency $\eta$            | 0.97    |
| Sound pressure level (1m)    | 65 dB   |
| Power loss                   | 0.26 kW |
| Filter class (integrated)    | Class A |

### Ambient conditions

|                         |  |
|-------------------------|--|
| Cooling                 | Internal air cooling                               |
| Cooling air requirement | 0.018 m <sup>3</sup> /s (0.653 ft <sup>3</sup> /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 | 6.00 ... 16.00 mm <sup>2</sup><br>(AWG 10 ... AWG 6) |

#### Motor end

|                         |  |
|-------------------------|--|
| Version                 | Plug-in screw terminals                              |
| Conductor cross-section | 6.00 ... 16.00 mm <sup>2</sup><br>(AWG 10 ... AWG 6) |

#### 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           | F5C                 |
| Net weight           | 5.20 kg (11.46 lb)  |

#### Dimensions

|        |                   |
|--------|-------------------|
| Width  | 140 mm (5.51 in)  |
| Height | 355 mm (13.98 in) |
| Depth  | 165 mm (6.50 in)  |

### Standards

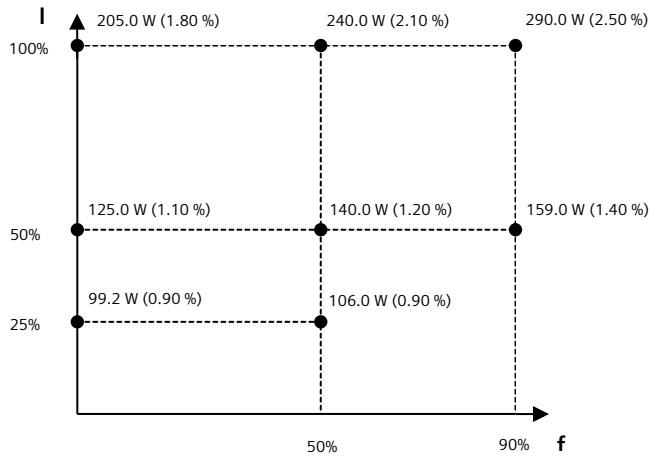
|                           |                                     |
|---------------------------|-------------------------------------|
| Compliance with standards | UL, cUL, CE, C-Tick (RCM), SEMI F47 |
| CE marking                | Low-voltage directive 2006/95/EC    |

## Data sheet for SINAMICS Power module PM240-2

Article No. : 6SL3210-1PC22-8AL0

### Converter losses to IEC61800-9-2\*

|  |         |
|--|---------|
| Efficiency class                                     | IE2     |
| Comparison with the reference converter (90% / 100%) | 45.90 % |



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

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