

## Data sheet for SINAMICS Power module PM240

Article No. : 6SL3224-0BE21-5UA0



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                       | 380 ... 480 V $\pm$ 10 % |
| Line frequency                     | 47 ... 63 Hz             |
| Rated current with line reactor    | 4.30 A                   |
| Rated current without line reactor | 4.90 A                   |

#### Output

|                                     |                 |                               |
|-------------------------------------|-----------------|-------------------------------|
| Number of phases                    | 3 AC            |                               |
| <b>Rated voltage</b>                | <b>400V IEC</b> | <b>480V NEC <sup>1)</sup></b> |
| Rated power (LO)                    | 1.50 kW         | 2.00 hp                       |
| Rated power (HO)                    | 1.50 kW         | 2.00 hp                       |
| Rated current (LO)                  | 4.10 A          |                               |
| Rated current (HO)                  | 4.10 A          |                               |
| Max. output current                 | 8.20 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)    | 45 dB   |
| Power loss                   | 0.11 kW |
| Filter class (integrated)    | -       |

### Ambient conditions

|                            |  |
|----------------------------|--|
| Cooling                    | Internal air cooling                               |
| Cooling air requirement    | 0.005 m <sup>3</sup> /s (0.177 ft <sup>3</sup> /s) |
| Installation altitude      | 1,000 m (3,280.84 ft)                              |
| <b>Ambient temperature</b> |  |
| Operation LO               | 0 ... 40 °C (32 ... 104 °F)                        |
| Operation HO               | 0 ... 50 °C (32 ... 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                 | screw-type terminal                                  |
| Conductor cross-section | 1.00 ... 2.50 mm <sup>2</sup><br>(AWG 18 ... AWG 14) |

#### Motor end

|                         |  |
|-------------------------|--|
| Version                 | Screw-type terminals                                 |
| Conductor cross-section | 1.00 ... 2.50 mm <sup>2</sup><br>(AWG 18 ... AWG 14) |

#### DC link (for braking resistor)

|                         |  |
|-------------------------|--|
| Version                 | Screw-type terminals                                 |
| Conductor cross-section | 1.00 ... 2.50 mm <sup>2</sup><br>(AWG 18 ... AWG 14) |
| PE connection           | On housing with M4 screw                             |

#### 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           | FSA                 |
| Net weight           | 1.10 kg (2.43 lb)   |
| <b>Dimensions</b>    |                     |
| Width                | 73 mm (2.87 in)     |
| Height               | 173 mm (6.81 in)    |
| Depth                | 145 mm (5.71 in)    |

### Standards

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

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<sup>1)</sup>The output current and HP ratings are valid for the voltage range 440V-480V