

Article No. : 6SL3224-0BE31-5UA0

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

Item no. :  
Consignment no. :  
Project :



Figure similar

Rated data

|                                    |                     |
|------------------------------------|---------------------|
| Input                              |                     |
| Number of phases                   | 3 AC                |
| Line voltage                       | 380 ... 480 V ±10 % |
| Line frequency                     | 47 ... 63 Hz        |
| Rated current with line reactor    | 40.00 A             |
| Rated current without line reactor | 46.00 A             |

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| Output                              |                                      |
| Number of phases                    | 3 AC                                 |
| Rated voltage                       | 400V IEC      480V NEC <sup>1)</sup> |
| Rated power (LO)                    | 18.50 kW      25.00 hp               |
| Rated power (HO)                    | 15.00 kW      20.00 hp               |
| Rated current (LO)                  | 38.00 A                              |
| Rated current (HO)                  | 32.00 A                              |
| Max. output current                 | 64.00 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 × 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) | 60 dB   |
| Power loss                | 0.42 kW |
| Filter class (integrated) | -       |

Ambient conditions

|                         |                                |
|-------------------------|--------------------------------|
| Cooling                 | Internal air cooling           |
| Cooling air requirement | 0.055 m³/s (1.942 ft³/s)       |
| Installation altitude   | 1,000 m (3,280.84 ft)          |
| Ambient temperature     |                                |
| 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                 | M6 bolt                                  |
| Conductor cross-section | 10.00 ... 50.00 mm²<br>(AWG 8 ... AWG 1) |
| Motor end               |                                          |
| Version                 | M6 bolt                                  |
| Conductor cross-section | 10.00 ... 50.00 mm²<br>(AWG 8 ... AWG 1) |

|                                |                                          |
|--------------------------------|------------------------------------------|
| DC link (for braking resistor) |                                          |
| Version                        | M6 bolt                                  |
| Conductor cross-section        | 10.00 ... 50.00 mm²<br>(AWG 8 ... AWG 1) |
| PE connection                  | On housing with M6 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           | FSD                 |
| Net weight           | 13.00 kg (28.66 lb) |
| Dimensions           |                     |
| Width                | 275 mm (10.83 in)   |
| Height               | 419 mm (16.50 in)   |
| Depth                | 204 mm (8.03 in)    |

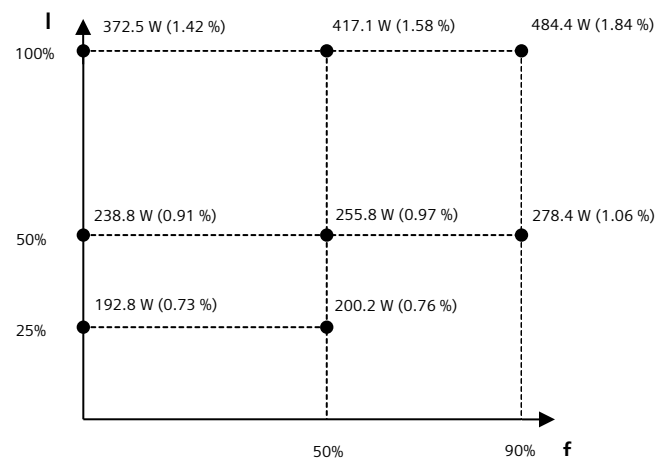
Standards

|                           |                                     |
|---------------------------|-------------------------------------|
| 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

Article No. : 6SL3224-0BE31-5UA0

| Converter losses to IEC61800-9-2*                    |         |
|------------------------------------------------------|---------|
| Efficiency class                                     | IE2     |
| Comparison with the reference converter (90% / 100%) | 63.71 % |



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 440V-480V