

Article No. : 6SL3210-1PE32-1AL0



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 ±10 % |
| Line frequency     | 47 ... 63 Hz        |
| Rated current (LO) | 198.00 A            |
| Rated current (HO) | 189.00 A            |

|                                     |                                |
|-------------------------------------|--------------------------------|
| Output                              |                                |
| Number of phases                    | 3 AC                           |
| Rated voltage                       | 400V IEC480V NEC <sup>1)</sup> |
| Rated power (LO)                    | 110.00 kW150.00 hp             |
| Rated power (HO)                    | 90.00 kW125.00 hp              |
| Rated current (LO)                  | 205.00 A                       |
| Rated current (HO)                  | 178.00 A                       |
| Max. output current                 | 356.00 A                       |
| Pulse frequency                     | 2 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            | 0.95    |
| Offset factor cos φ       | 0.99    |
| Efficiency η              | 0.99    |
| Sound pressure level (1m) | 68 dB   |
| Power loss                | 2.17 kW |
| Filter class (integrated) | Class A |

Ambient conditions

|                         |                                |
|-------------------------|--------------------------------|
| Cooling                 | Internal air cooling           |
| Cooling air requirement | 0.153 m³/s (5.403 ft³/s)       |
| Installation altitude   | 1,000 m (3,280.84 ft)          |
| Ambient temperature     |                                |
| Operation LO            | -20 ... 40 °C (-4 ... 104 °F)  |
| Operation HO            | -20 ... 50 °C (-4 ... 122 °F)  |
| Transport               | -40 ... 70 °C (-40 ... 158 °F) |
| Storage                 | -40 ... 70 °C (-40 ... 158 °F) |

|                   |                                     |
|-------------------|-------------------------------------|
| Relative humidity |                                     |
| Max. operation    | 95 % RH, condensation not permitted |

Connections

|                         |                                         |
|-------------------------|-----------------------------------------|
| Line side               |                                         |
| Version                 | M10 bolt                                |
| Conductor cross-section | 35.00 ... 120.00 mm² (AWG 2 ... AWG -3) |
| Motor end               |                                         |
| Version                 | M10 bolt                                |
| Conductor cross-section | 35.00 ... 120.00 mm² (AWG 2 ... AWG -3) |

|                                |                                        |
|--------------------------------|----------------------------------------|
| DC link (for braking resistor) |                                        |
| Version                        | Screw-type terminals                   |
| Conductor cross-section        | 25.00 ... 70.00 mm² (AWG 4 ... AWG -1) |
| Cable length                   | 10 m (32.81 ft)                        |
| PE connection                  | M10 screw studs                        |
| Max. motor cable length        |                                        |
| Shielded                       | 300 m (984.25 ft)                      |
| Unshielded                     | 450 m (1,476.38 ft)                    |

Mechanical data

|                      |                      |
|----------------------|----------------------|
| Degree of protection | IP20 / UL open type  |
| Frame size           | FSF                  |
| Net weight           | 65.00 kg (143.30 lb) |
| Dimensions           |                      |
| Width                | 305 mm (12.01 in)    |
| Height               | 708 mm (27.87 in)    |
| Depth                | 357 mm (14.06 in)    |

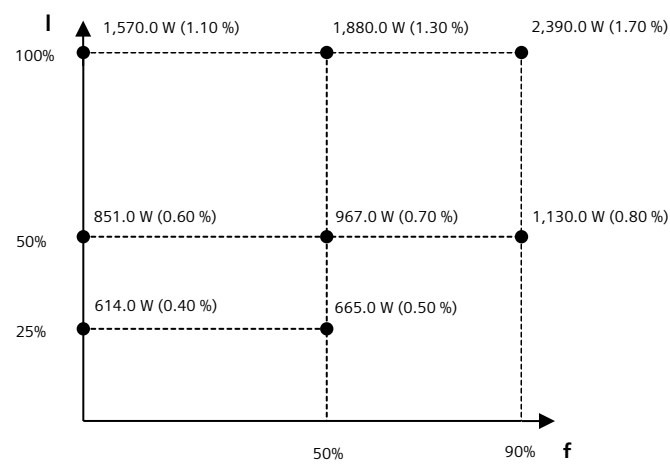
Standards

|                           |                                     |
|---------------------------|-------------------------------------|
| 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. : 6SL3210-1PE32-1AL0

| Converter losses to IEC61800-9-2*                    |         |
|------------------------------------------------------|---------|
| Efficiency class                                     | IE2     |
| Comparison with the reference converter (90% / 100%) | 41.00 % |



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