

Article No. : 6SL3210-1PE23-8AL0

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 (LO) | 36.00 A             |
| Rated current (HO) | 33.00 A             |

|                                     |                                |
|-------------------------------------|--------------------------------|
| Output                              |                                |
| Number of phases                    | 3 AC                           |
| Rated voltage                       | 400V IEC480V NEC <sup>1)</sup> |
| Rated power (LO)                    | 18.50 kW25.00 hp               |
| Rated power (HO)                    | 15.00 kW20.00 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               | 0.95    |
| Offset factor cos φ          | 0.99    |
| Efficiency η                 | 0.98    |
| Sound pressure level (1m)    | 72 dB   |
| Power loss                   | 0.56 kW |
| Filter class (integrated)    | Class A |

| 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            | -20 ... 40 °C (-4 ... 104 °F)  |
| Operation HO            | -20 ... 50 °C (-4 ... 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 | 10.00 ... 35.00 mm² (AWG 8 ... AWG 2) |

|                         |                                       |
|-------------------------|---------------------------------------|
| Motor end               |                                       |
| Version                 | Screw-type terminals                  |
| Conductor cross-section | 10.00 ... 35.00 mm² (AWG 8 ... AWG 2) |

|                                |                                       |
|--------------------------------|---------------------------------------|
| DC link (for braking resistor) |                                       |
| Version                        | Screw-type terminals                  |
| Conductor cross-section        | 2.50 ... 16.00 mm² (AWG 14 ... AWG 6) |
| Cable length                   | 10 m (32.81 ft)                       |
| PE connection                  | Screw-type terminals                  |

|                         |                   |
|-------------------------|-------------------|
| Max. motor cable length |                   |
| Shielded                | 200 m (656.17 ft) |
| Unshielded              | 300 m (984.25 ft) |

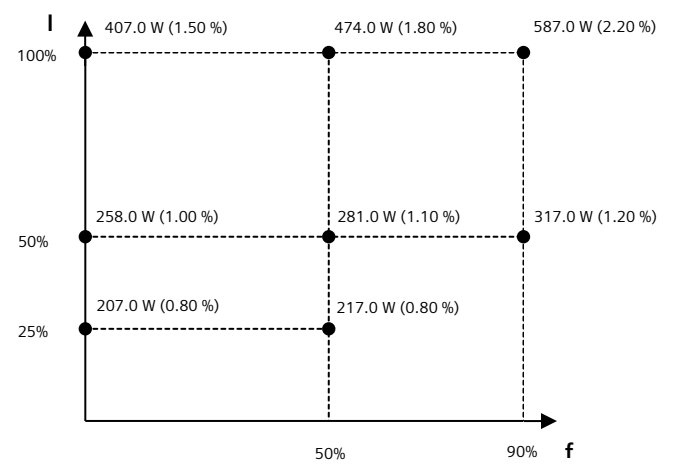
| Mechanical data      |                     |
|----------------------|---------------------|
| Degree of protection | IP20 / UL open type |
| Frame size           | FSD                 |
| Net weight           | 17.50 kg (38.58 lb) |
| Dimensions           |                     |
| Width                | 200 mm (7.87 in)    |
| Height               | 472 mm (18.58 in)   |
| Depth                | 237 mm (9.33 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. : 6SL3210-1PE23-8AL0

| Converter losses to IEC61800-9-2*                    |         |
|------------------------------------------------------|---------|
| Efficiency class                                     | IE2     |
| Comparison with the reference converter (90% / 100%) | 44.80 % |



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