

Article No. : 6SL3210-1NE11-7AG1



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)                  | 1.80 A              |                        |  |
| Rated current (HO)                  | 1.30 A              |                        |  |
| Output                              |                     |                        |  |
| Number of phases                    | 3 AC                |                        |  |
| Rated voltage                       | 400V IEC            | 480V NEC <sup>1)</sup> |  |
| Rated power (LO)                    | 0.55 kW             | 0.75 hp                |  |
| Rated power (HO)                    | 0.37 kW             | 0.50 hp                |  |
| Rated current (LO)                  | 1.70 A              |                        |  |
| Rated current (HO)                  | 1.30 A              |                        |  |
| Max. output current                 | 2.60 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            | 0.90    |
| Offset factor cos φ       | 0.95    |
| Efficiency η              | 0.93    |
| Sound pressure level (1m) | 50 dB   |
| Power loss                | 0.04 kW |
| Filter class (integrated) | Class A |

Ambient conditions

|                         |                                     |
|-------------------------|-------------------------------------|
| Cooling                 | Internal air cooling                |
| Cooling air requirement | 0.002 m³/s (0.071 ft³/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               | -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                 | Plug-in screw terminals                  |
| Conductor cross-section | 1.00 ... 2.50 mm²<br>(AWG 18 ... AWG 14) |
| Motor end               |                                          |
| Version                 | Plug-in screw terminals                  |
| Conductor cross-section | 1.00 ... 2.50 mm²<br>(AWG 18 ... AWG 14) |
| Max. motor cable length |                                          |
| Shielded                | 25 m (82.02 ft)                          |
| Unshielded              | 100 m (328.08 ft)                        |

Mechanical data

|                      |                     |
|----------------------|---------------------|
| Degree of protection | IP20 / UL open type |
| Frame size           | FSA                 |
| Net weight           | 1.60 kg (3.53 lb)   |
| Dimensions           |                     |
| Width                | 73 mm (2.87 in)     |
| Height               | 196 mm (7.72 in)    |
| Depth                | 165 mm (6.50 in)    |

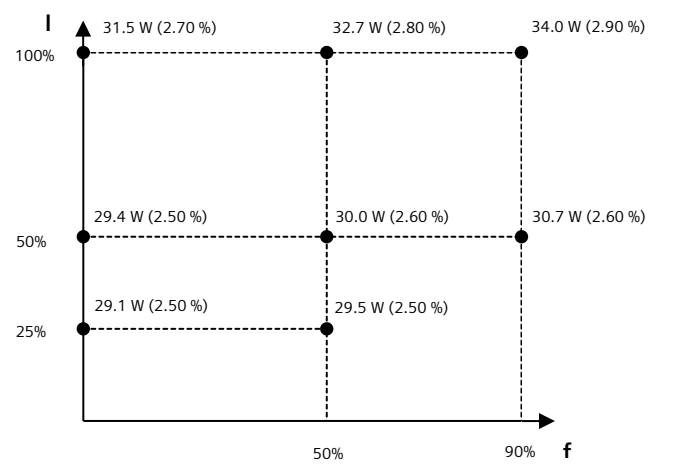
Standards

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

Data sheet for SINAMICS Power module PM230

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| Converter losses to IEC61800-9-2*                    |         |
|------------------------------------------------------|---------|
| Efficiency class                                     | IE2     |
| Comparison with the reference converter (90% / 100%) | 26.20 % |



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