



Figure similar

Article No. : 6SL3310-1PG35-2AA0

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

Item no. :  
Consignment no. :  
Project :

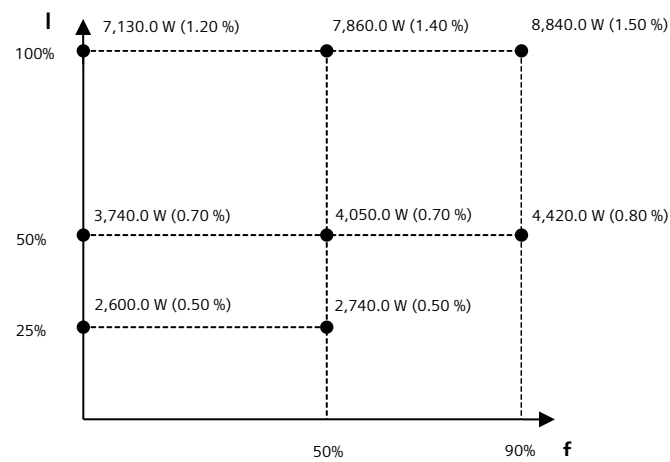
| Rated data                                                                                                                                     |                     |                        |
|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------|
| Input                                                                                                                                          |                     |                        |
| Number of phases                                                                                                                               | 3 AC                |                        |
| Line voltage                                                                                                                                   | 500 ... 690 V ±10 % |                        |
| Line frequency                                                                                                                                 | 47 ... 63 Hz        |                        |
| Rated current (LO)                                                                                                                             | 489.00 A            |                        |
| Rated current (HO)                                                                                                                             | 410.00 A            |                        |
| Output                                                                                                                                         |                     |                        |
| Number of phases                                                                                                                               | 3 AC                |                        |
| Rated voltage                                                                                                                                  | 690V IEC            | 600V NEC <sup>1)</sup> |
| Rated power (LO)                                                                                                                               | 450.00 kW           | 450.00 hp              |
| Rated power (HO)                                                                                                                               | 400.00 kW           | 450.00 hp              |
| Rated current (LO)                                                                                                                             | 470.00 A            |                        |
| Rated current (HO)                                                                                                                             | 394.00 A            |                        |
| Max. output current                                                                                                                            | 682.00 A            |                        |
| Pulse frequency                                                                                                                                | 2 kHz               |                        |
| Output frequency for vector control                                                                                                            | 0 ... 100 Hz        |                        |
| Output frequency for V/f control                                                                                                               | 0 ... 100 Hz        |                        |
| Overload capability                                                                                                                            |                     |                        |
| Low Overload (LO)                                                                                                                              |                     |                        |
| 1.35 × base load current IL (i.e., 135 % overload) for 3 s or 1.1 × base load current IL (i.e., 110 % overload) for 60 s in a 300 s cycle time |                     |                        |
| High Overload (HO)                                                                                                                             |                     |                        |
| 1.5 × base load current IH (i.e., 150 % overload) for 60 s in a 300 s cycle time                                                               |                     |                        |
| General tech. specifications                                                                                                                   |                     |                        |
| Power factor λ                                                                                                                                 | 0.93                |                        |
| Offset factor cos φ                                                                                                                            | 0.96                |                        |
| Efficiency η                                                                                                                                   | 0.98                |                        |
| Sound pressure level (1m)                                                                                                                      | 74 dB               |                        |
| Power loss                                                                                                                                     | 7.72 kW             |                        |
| Filter class (integrated)                                                                                                                      | -                   |                        |

| Ambient conditions             |                                                       |
|--------------------------------|-------------------------------------------------------|
| Cooling                        | Internal air cooling                                  |
| Cooling air requirement        | 0.362 m³/s (12.784 ft³/s)                             |
| Installation altitude          | 1,000 m (3,280.84 ft)                                 |
| Ambient temperature            |                                                       |
| Operation LO                   | 0 ... 40 °C (32 ... 104 °F)                           |
| Operation HO                   | 0 ... 40 °C (32 ... 104 °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                        | M12 screw                                             |
| Conductor cross-section        | 120.00 ... 4 x 240.00 mm²<br>(AWG -3 ... MCM 4 x 500) |
| Motor end                      |                                                       |
| Version                        | M12 screw                                             |
| Conductor cross-section        | 95.00 ... 4 x 240.00 mm²<br>(AWG -2 ... MCM 4 x 500)  |
| DC link (for braking resistor) |                                                       |
| Version                        | M12 screw                                             |
| Conductor cross-section        | 150.00 ... 4 x 240.00 mm²<br>(AWG -4 ... MCM 4 x 500) |
| PE connection                  | M12 screw                                             |
| Max. motor cable length        |                                                       |
| Shielded                       | 100 m (328.08 ft)                                     |
| Unshielded                     | 200 m (656.17 ft)                                     |
| Mechanical data                |                                                       |
| Degree of protection           | IP20 / UL open type                                   |
| Frame size                     | HX                                                    |
| Net weight                     | 162.00 kg (357.15 lb)                                 |
| Dimensions                     |                                                       |
| Width                          | 548 mm (21.57 in)                                     |
| Height                         | 1,696 mm (66.77 in)                                   |
| Depth                          | 393 mm (15.47 in)                                     |
| Standards                      |                                                       |
| Compliance with standards      | UL, cUL, CE, C-Tick (RCM)                             |
| CE marking                     | Low-voltage directive 2006/95/EC                      |

Data sheet for SINAMICS Power Module  
PM330

Article No. : 6SL3310-1PG35-2AA0

| Converter losses to IEC61800-9-2*                    |         |
|------------------------------------------------------|---------|
| Efficiency class                                     | IE2     |
| Comparison with the reference converter (90% / 100%) | 37.80 % |



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 550V-600V