

## Data sheet for Motor Module

Article No. : 6SL3325-1TG31-0AA3

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

Item no. :  
Consignment no. :  
Project :



Figure similar

| Rated data                               |                             |
|------------------------------------------|-----------------------------|
| DC link voltage                          | DC 675 ... 1,035 V          |
| 24 V DC auxiliary power supply           | 1.00 A                      |
| <b>DC-link current</b>                   |                             |
| Rated current $I_N$ DC                   |                             |
| - Basic/Smart Line Module                | 122 A                       |
| - Active Line Module                     | 110 A                       |
| Base-load current $I_L$ DC               |                             |
| - Basic/Smart Line Module                | 116 A                       |
| - Active Line Module                     | 105 A                       |
| Base-load current $I_H$ DC               |                             |
| - Basic/Smart Line Module                | 108 A                       |
| - Active Line Module                     | 98 A                        |
| <b>Output current</b>                    |                             |
| Rated value $I_N$                        | 100 A                       |
| Base-load current $I_L$ <sup>1)</sup>    | 95 A                        |
| Base load current $I_H$ <sup>2)</sup>    | 89 A                        |
| $I_{max}$                                | 142 A                       |
| <b>Type rating</b> <sup>3)</sup>         |                             |
| Based on $I_N$ 350 kW                    | 90 kW                       |
| Based on $I_H$ 200 kW                    | 75 kW                       |
| <b>Pulse frequency</b>                   |                             |
| Rated pulse frequency <sup>4)</sup>      | 1.25 kHz                    |
| Pulse frequency, max.                    | 7.50 kHz                    |
| DC link capacitance                      | 2,800 $\mu$ F               |
| Output frequency for servo control       | 0 ... 550 Hz                |
| Output frequency for V/f control         | 0 ... 550 Hz                |
| Output frequency for vector control      | 0 ... 550 Hz                |
| Ambient conditions                       |                             |
| Installation altitude (without derating) | 2,000 m (6,561.68 ft)       |
| Cooling <sup>5)</sup>                    | Liquid cooling              |
| Cooling requirement                      | 9.00 l/min                  |
| <b>Ambient temperature</b>               |                             |
| During operation                         | 0 ... 45 °C (32 ... 113 °F) |

| Connections                                  |                                                                                         |
|----------------------------------------------|-----------------------------------------------------------------------------------------|
| <b>Motor end</b>                             |                                                                                         |
| Conductor cross-section                      | 2 x 95 mm <sup>2</sup>                                                                  |
| <b>DC link</b>                               |                                                                                         |
| Version                                      | 2 x Hole for M12 busbar                                                                 |
| <b>PE1 connection</b>                        |                                                                                         |
| Conductor cross-section                      | 2 x 95 mm <sup>2</sup>                                                                  |
| <b>Max. motor cable length</b> <sup>6)</sup> |                                                                                         |
| Shielded                                     | 300 m (984.25 ft)                                                                       |
| Unshielded                                   | 450 m (1,476.38 ft)                                                                     |
| Standards                                    |                                                                                         |
| Compliance with standards                    | CE, cULus                                                                               |
| Safety Integrated                            | SIL 2 acc. to IEC 61508, PL d acc. to EN ISO 13849-1, Category 3 acc. to EN ISO 13849-1 |
| Mechanical data                              |                                                                                         |
| <b>Dimensions</b>                            |                                                                                         |
| Width                                        | 150 mm (5.91 in)                                                                        |
| Height                                       | 728 mm (28.70 in)                                                                       |
| Depth                                        | 545 mm (21.46 in)                                                                       |
| Degree of protection                         | IP20                                                                                    |
| Type of construction                         | Chassis                                                                                 |
| Weight approx.                               | 41 kg (90.40 lb)                                                                        |
| General tech. specifications                 |                                                                                         |
| Sound pressure level (1m) + 50 Hz / 60 Hz    | 52 dB / 52 dB                                                                           |
| At 50 Hz 690 V                               | 1.15 kW                                                                                 |
| At 60 Hz 575 V                               | 1.02 kW                                                                                 |

<sup>1)</sup> The base-load current  $I_L$  is the basis for a duty cycle of 110% for 60 s or 150% for 10 s with a duty cycle duration of 300 s.  
<sup>2)</sup> The base load current  $I_H$  is based on a duty cycle of 150% for 60 s or 160% for 10 s with a duty cycle duration of 300 s.  
<sup>3)</sup> Rated power of a typical 6-pole standard induction motor based on  $I_L$  or  $I_H$  at 3 AC 50 Hz 500 V or 690 V, 3 AC 60 Hz 575 V.  
<sup>4)</sup> Information on the correlation between pulse frequency and maximum output current/output frequency is provided in the SINAMICS Low Voltage Configuration Manual.  
<sup>5)</sup> with integrated heat exchanger in aluminum or stainless steel design  
<sup>6)</sup> Sum of all motor cables and DC link. Longer cable lengths on request, depending on configuration. More information can be found in the SINAMICS Low Voltage Configuration Manual.