

**Article No.:** 

6SL3220-1YE44-0AF0

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

Item no.:

**Rated data** 



| Consignment | no. |  |
|-------------|-----|--|
| Project ·   |     |  |

Height

Depth

| Amb                         | ient conditions  |
|-----------------------------|--|
| Standard board coating type | Class 3C2, according to IEC 60721-3-3<br>2002                  |
| Cooling                     | Air cooling using an integrated fan                            |
| Cooling air requirement     | 0.153 m³/s (5.403 ft³/s)                                       |
| Installation altitude       | 1,000 m (3,280.84 ft)  |
| Ambient temperature         |  |
| Operation                   | -20 45 °C (-4 113 °F)  |
| Transport                   | -40 70 °C (-40 158 °F)   |
| Storage                     | -25 55 °C (-13 131 °F)   |
| Relative humidity           |  |
| Max. operation              | 95 % At 40 °C (104 °F), condensation and icing not permissible |
| Me                          | <del>chanical data</del>                                       |
| Degree of protection        | IP20 / UL open type  |
| Size                        | FSF  |
| Net weight                  | 68 kg (149.91 lb)  |
| Dimensions                  |  |
| Width                       | 305 mm (12.01 in)  |

709 mm (27.91 in)

369 mm (14.53 in)

| Input              |             |            |
|--------------------|-------------|------------|
| Number of phases   | 3 AC        |            |
| Line voltage       | 380 480 V + | 10 % -20 % |
| Line frequency     | 47 63 Hz    |            |
| Rated voltage      | 400V IEC    | 480V NEC   |
| Rated current (LO) | 172.00 A    | 151.00 A   |
| Rated current (HO) | 154.00 A    | 132.00 A   |
| Output             |             |            |

| Number of phases                    | 3 AC     |                        |
|-------------------------------------|----------|------------------------|
| Rated voltage                       | 400V IEC | 480V NEC <sub>1)</sub> |
| Rated power (LO)                    | 90.00 kW | 125.00 hp              |
| Rated power (HO)                    | 75.00 kW | 100.00 hp              |
| Rated current (LO)                  | 178.00 A | 156.00 A               |
| Rated current (HO)                  | 145.00 A | 124.00 A               |
| Rated current (IN)                  | 183.00 A |                        |
| Max. output current                 | 241.00 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)

110% base load current IL for 60 s in a 300 s cycle time

High Overload (HO)

150% x base load current IH for 60 s within a 600 s cycle time

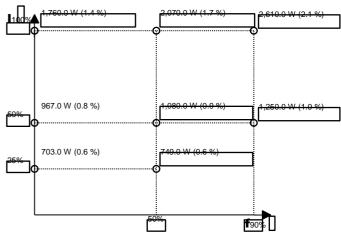
| General tech. specifications    |  |  |
|---------------------------------|--|--|
| Power factor λ                  | 0.90 0.95                              |  |
| Offset factor cos φ             | 0.99                                   |  |
| Efficiency η                    | 0.97                                   |  |
| Sound pressure level (1m)       | 72 dB                                  |  |
| Power loss <sub>3)</sub>        | 2.610 kW                               |  |
| Filter class (integrated)       | RFI suppression filter for Category C2 |  |
| EMC category (with accessories) | Category C2                            |  |



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| ^                                      |
|--|
| 6<br>11 V                              |
| 5 V                                    |
| 15 mA                                  |
|  |
|  |
|  |
| t                                      |
| DC 30 V, 5.0 A                         |
|  |
|  |
| 2 (Differential input)                 |
| 10 bit                                 |
| ıt                                     |
| 4 V                                    |
| 1.6 V                                  |
| 1.0 V                                  |
| 4 (No. :                               |
| 1 (Non-isolated output)                |
|  |
| ensors that can be connected: PTC, KTY |
| control techniques                     |
| e Yes                                  |
| Yes                                    |
| Yes                                    |
| Yes                                    |
| No                                     |
| NO                                     |
| Yes                                    |
|  |

| 1.50 mm <sup>2</sup> 24 AWG 16)  crew 2 x 120.00 mm <sup>2</sup> 1 AWG 2 x 4/0) |  |
|---|--|
| 24 AWG 16) crew 2 x 120.00 mm²  |  |
| 2 x 120.00 mm²  |  |
| 2 x 120.00 mm²  |  |
| •.••  |  |
|   |  |
|   |  |
| crew  |  |
| 2 x 120.00 mm²<br>1 AWG 2 x 4/0)  |  |
|   |  |
| prew  |  |
|   |  |
| (492.13 ft)   |  |
| Converter losses to IEC61800-9-2*   |  |
|   |  |
|   |  |
| _   |  |



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.

\*converted values

| Standards                 |   |
|---------------------------|---|
| Compliance with standards | UL, cUL, CE, C-Tick (RCM), EAC, KCC, SEMI F47, REACH            |
| CE marking                | EMC Directive 2004/108/EC, Low-<br>Voltage Directive 2006/95/EC |

Communication

Communication

PROFINET, EtherNet/IF

 $<sup>\</sup>ensuremath{^{1)}}$  The output current and HP ratings are valid for the voltage range 440V-480V

<sup>3)</sup> Typical value. More information can be found in the element group "Converter losses to IEC 61800-9-2" in this datasheet.