

Article No. : 6SL5310-1BE17-0DF1

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     | 200 ... 480 V ±10 % |
| Line frequency   | 45 ... 66 Hz        |
| Rated current    | 17.9 A              |
| Inrush current   | 27.8 A              |

|                                    |              |
|------------------------------------|--------------|
| Output                             |              |
| Number of phases                   | 3 AC         |
| Rated power (at 400V)              | 7.00 kW      |
| Rated power (at 240V)              | 4.20 kW      |
| Rated current I <sub>N</sub>       | 15.0 A       |
| Max. output current                | 55.0 A       |
| Pulse frequency                    | 8 kHz        |
| Output frequency for servo control | 0 ... 550 Hz |

|                          |                      |
|--------------------------|----------------------|
| Electronics power supply |                      |
| Voltage                  | 24 V -15 % ... +20 % |
| Current demand, max.     | 1.2 A                |

|               |          |
|---------------|----------|
| Communication |          |
| Communication | PROFINET |

|                       |                                     |
|-----------------------|-------------------------------------|
| Ambient conditions    |                                     |
| Installation altitude | 1,000 m (3,281 ft)                  |
| Cooling               | Air cooling using an integrated fan |

|                            |                                                                                                           |
|----------------------------|-----------------------------------------------------------------------------------------------------------|
| Ambient temperature during |                                                                                                           |
| Operation                  | -10 ... 50 °C (14 ... 122 °F)<br>Better than class 3K3, in acc. with EN 60721-3-3: 2002, without derating |
| Transport                  | -40 ... 70 °C (-40 ... 158 °F)<br>Class 2K4, in acc. with EN 60721-3-2: 1997, in transport packaging      |
| Storage                    | -25 ... 55 °C (-13 ... 131 °F)<br>Class 1K4, in acc. with EN 60721-3-1: 1997, in product packaging        |

|                          |                                        |
|--------------------------|----------------------------------------|
| Relative humidity during |                                        |
| Max. operation           | 95 %<br>RH, condensation not permitted |
| Transport, max.          | 95 %<br>at 40 °C (104 °F)              |
| Bearing, max.            | 95 %                                   |

### Inputs / outputs

|                          |                                     |
|--------------------------|-------------------------------------|
| Standard digital inputs  |                                     |
| Number                   | 5<br>of which 2 for F-DI            |
| Fail-safe digital inputs |                                     |
| Number                   | 1<br>Can only be used for STO/SS1-t |

|                      |                        |
|----------------------|------------------------|
| Mechanical data      |                        |
| Mounting position    | vertical wall mounting |
| Degree of protection | IP20 / UL open type    |
| Frame size           | FSC                    |
| Net weight           | 5.00 kg (11.02 lb)     |
| Dimensions           |                        |
| Width                | 105.0 mm (4.13 in)     |
| Height               | 280.0 mm (11.00 in)    |
| Depth                | 222.8 mm (8.77 in)     |

### Connections

|                         |                                   |
|-------------------------|-----------------------------------|
| Line side               |                                   |
| Version                 | push-in spring-type terminals     |
| Conductor cross-section | 0.75 ... 6.00 mm² / 18 ... 10 AWG |

|                         |                                   |
|-------------------------|-----------------------------------|
| Motor end               |                                   |
| Version                 | push-in spring-type terminals     |
| Conductor cross-section | 0.75 ... 6.00 mm² / 18 ... 10 AWG |

|                                |                                   |
|--------------------------------|-----------------------------------|
| DC link (for braking resistor) |                                   |
| Version                        | push-in spring-type terminals     |
| Conductor cross-section        | 0.75 ... 6.00 mm² / 18 ... 10 AWG |
| Cable length                   | 10 m (32.81 ft)                   |

|               |                |
|---------------|----------------|
| PE connection |                |
| Version       | M5 screw studs |

|                                       |                  |
|---------------------------------------|------------------|
| Max. motor cable length <sup>1)</sup> |                  |
| Shielded                              | 50 m (164.04 ft) |

|                                             |                                                                                                                                  |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Standards                                   |                                                                                                                                  |
| Compliance with standards                   | CE, cULus, RCM, UKCA                                                                                                             |
| CE marking                                  | Low-voltage directive 2006/95/EC                                                                                                 |
| Verification of suitability for fail-safety | SIL 3 in acc. with IEC 61508 and IEC 61800-5-2, PL e in acc. with ISO 13849-1, Category 3 or Category 4 in acc. with ISO 13849-1 |

<sup>1)</sup>Cable length with possibility of connection an external filter