



Figure similar

Article No. : 6SL5310-1BE10-4DF0

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    | 1.6 A               |
| Inrush current   | 4.3 A               |

#### Output

|                                    |              |
|------------------------------------|--------------|
| Number of phases                   | 3 AC         |
| Rated power (at 400V)              | 0.40 kW      |
| Rated power (at 240V)              | 0.24 kW      |
| Rated current I <sub>N</sub>       | 1.2 A        |
| Max. output current                | 4.2 A        |
| Pulse frequency                    | 8 kHz        |
| Output frequency for servo control | 0 ... 550 Hz |

### Electronics power supply

|                      |                      |
|----------------------|----------------------|
| Voltage              | 24 V -15 % ... +20 % |
| Current demand, max. | 0.9 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           | FSA                    |
| Net weight           | 2.10 kg (4.63 lb)      |

#### Dimensions

|        |                    |
|--------|--------------------|
| Width  | 50.0 mm (1.97 in)  |
| Height | 231.0 mm (9.09 in) |
| Depth  | 222.8 mm (8.77 in) |

### Connections

#### Line side

|                         |   |
|-------------------------|---|
| Version                 | push-in spring-type terminals                 |
| Conductor cross-section | 0.75 ... 6.00 mm <sup>2</sup> / 18 ... 10 AWG |

#### Motor end

|                         |   |
|-------------------------|---|
| Version                 | push-in spring-type terminals                 |
| Conductor cross-section | 0.75 ... 6.00 mm <sup>2</sup> / 18 ... 10 AWG |

#### DC link (for braking resistor)

|                         |   |
|-------------------------|---|
| Version                 | push-in spring-type terminals                 |
| Conductor cross-section | 0.75 ... 6.00 mm <sup>2</sup> / 18 ... 10 AWG |
| Cable length            | 10 m (32.81 ft)                               |

#### PE connection

|         |                |
|---------|----------------|
| Version | M4 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