

Article No. : 6SL3210-1KE32-4UF1



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 | 380 ... 480 V +10 % -20 % |
| Line frequency | 47 ... 63 Hz |
| Rated current (LO) | 221.00 A |
| Rated current (HO) | 207.00 A |

| | |
|-------------------------------------|---------------------------------|
| Output | |
| Number of phases | 3 AC |
| Rated voltage | 400V IEC 480V NEC ¹⁾ |
| Rated power (LO) | 132.00 kW 150.00 hp |
| Rated power (HO) | 110.00 kW 125.00 hp |
| Rated current (LO) | 237.00 A |
| Rated current (HO) | 201.00 A |
| Rated current (IN) | 237.00 A |
| Max. output current | 402.00 A |
| Pulse frequency | 2 kHz |
| Output frequency for vector control | 0 ... 240 Hz |
| Output frequency for V/f control | 0 ... 550 Hz |

| | |
|---------------------|---|
| Overload capability | |
| Low Overload (LO) | 150 % base load current IL for 3 s, followed by 110 % base load current IL for 57 s in a 300 s cycle time |
| High Overload (HO) | 200 % base load current IH for 3 s, followed by 150 % base load current IH for 57 s in a 300 s cycle time |

| | |
|------------------------------|---------------|
| General tech. specifications | |
| Power factor λ | 0.90 ... 0.95 |
| Offset factor cos φ | 0.99 |
| Efficiency η | 0.99 |
| Sound pressure level (1m) | 68 dB |
| Power loss | 2,890.0 W |
| Filter class (integrated) | Unfiltered |

| | |
|---------------|-----------------------|
| Communication | |
| Communication | PROFINET, EtherNet/IP |

Inputs / outputs

| | |
|-------------------------|-------|
| Standard digital inputs | |
| Number | 6 |
| Switching level: 0→1 | 11 V |
| Switching level: 1→0 | 5 V |
| Max. inrush current | 15 mA |

| | |
|--------------------------|---|
| Fail-safe digital inputs | |
| Number | 1 |

| | |
|------------------------------------|----------------|
| Digital outputs | |
| Number as relay changeover contact | 1 |
| Output (resistive load) | DC 30 V, 0.5 A |
| Number as transistor | 1 |
| Output (resistive load) | DC 30 V, 0.5 A |

| | |
|-------------------------|------------------------|
| Analog / digital inputs | |
| Number | 1 (Differential input) |
| Resolution | 10 bit |

| | |
|--------------------------------------|-------|
| Switching threshold as digital input | |
| 0→1 | 4 V |
| 1→0 | 1.6 V |

| | |
|----------------|-------------------------|
| Analog outputs | |
| Number | 1 (Non-isolated output) |

| | |
|---|--|
| PTC/ KTY interface | |
| 1 motor temperature sensor input, sensors that can be connected PTC, KTY and Thermo-Click, accuracy ±5 °C | |

Closed-loop control techniques

| | |
|---|-----|
| V/f linear / square-law / parameterizable | Yes |
| V/f with flux current control (FCC) | Yes |
| V/f ECO linear / square-law | Yes |
| Sensorless vector control | Yes |
| Vector control, with sensor | No |
| Encoderless torque control | No |
| Torque control, with encoder | No |

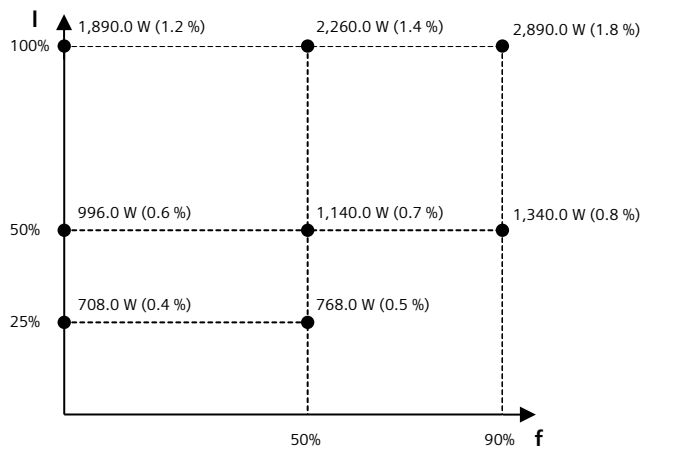
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| Ambient conditions | |
|-------------------------|-------------------------------------|
| Cooling | Air cooling using an integrated fan |
| Cooling air requirement | 0.153 m³/s (5.403 ft³/s) |
| Installation altitude | 1,000 m (3,280.84 ft) |
| Ambient temperature | |
| Operation | -20 ... 40 °C (-4 ... 104 °F) |
| Transport | -40 ... 70 °C (-40 ... 158 °F) |
| Storage | -40 ... 70 °C (-40 ... 158 °F) |
| Relative humidity | |
| Max. operation | 95 % RH, condensation not permitted |

| Connections | |
|--------------------------------|--|
| Signal cable | |
| Conductor cross-section | 0.15 ... 1.50 mm² (AWG 24 ... AWG 16) |
| Line side | |
| Version | screw-type terminal |
| Conductor cross-section | 35.00 ... 120.00 mm² (AWG 2 ... AWG -3) |
| Motor end | |
| Version | Screw-type terminals |
| Conductor cross-section | 35.00 ... 120.00 mm² (AWG 2 ... AWG -3) |
| DC link (for braking resistor) | |
| Version | Screw-type terminals |
| Conductor cross-section | 35.00 ... 120.00 mm² (AWG 2 ... AWG -3) |
| Line length, max. | 10 m (32.81 ft) |
| PE connection | Screw-type terminals |
| Max. motor cable length | |
| Shielded | 300 m (984.25 ft) |
| Unshielded | 450 m (1,476.38 ft) |

| Mechanical data | |
|---------------------------|---|
| Degree of protection | IP20 / UL open type |
| Frame size | FSF |
| Net weight | 61.50 kg (135.58 lb) |
| Dimensions | |
| Width | 305 mm (12.01 in) |
| Height | 708 mm (27.87 in) |
| Depth | 357 mm (14.06 in) |
| Standards | |
| Compliance with standards | UL, cUL, CE, C-Tick (RCM) |
| CE marking | EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC |

| Converter losses to IEC61800-9-2* | |
|--|--------|
| Efficiency class | IE2 |
| Comparison with the reference converter (90% / 100%) | 43.1 % |



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

¹⁾The output current and HP ratings are valid for the voltage range 440V-480V