



Figure similar

MLFB-Ordering data

6SL3210-1KE11-8AF2

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) | 2.30 A |
| Rated current (HO) | 1.90 A |

Output

| | |
|-------------------------------------|--------------|
| Number of phases | 3 AC |
| Rated voltage | 400 V |
| Rated power IEC 400V (LO) | 0.55 kW |
| Rated power NEC 480V (LO) | 0.75 hp |
| Rated power IEC 400V (HO) | 0.37 kW |
| Rated power NEC 480V (HO) | 0.50 hp |
| Rated current (IN) | 1.80 A |
| Rated current (LO) | 1.70 A |
| Rated current (HO) | 1.30 A |
| Max. output current | 2.60 A |
| Pulse frequency | 4 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 | 0.70 ... 0.85 |
| Offset factor $\cos \phi$ | 0.95 |
| Efficiency η | 0.97 |
| Sound pressure level (1m) | 49 dB |
| Power loss | 0.03 kW |
| Filter class (integrated) | Class A |

Ambient conditions

| | |
|-------------------------|--|
| Cooling | Air cooling using an integrated fan |
| Cooling air requirement | 0.005 m ³ /s (0.177 ft ³ /s) |
| Installation altitude | 1000 m (3280.84 ft) |

Ambient temperature

| | |
|-----------|--------------------------------|
| Operation | -10 ... 40 °C (14 ... 104 °F) |
| Transport | -40 ... 70 °C (-40 ... 158 °F) |
| Storage | -40 ... 70 °C (-40 ... 158 °F) |

Relative humidity

| | |
|----------------|--|
| Max. operation | 95 % At 40 °C (104 °F), condensation and icing not permissible |
|----------------|--|

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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Mechanical data

| | |
|----------------------|---------------------|
| Degree of protection | IP20 / UL open type |
| Size | F5AA |
| Net weight | 1.40 kg (3.09 lb) |
| Width | 73 mm (2.87 in) |
| Height | 173 mm (6.81 in) |
| Depth | 160 mm (6.30 in) |

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

Communication

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

Connections

Signal cable

| | |
|-------------------------|---|
| Conductor cross-section | 0.15 ... 1.50 mm ² (AWG 24 ... AWG 16) |
|-------------------------|---|

Line side

| | |
|---------|-------------------------|
| Version | Plug-in screw terminals |
|---------|-------------------------|

| | |
|-------------------------|---|
| Conductor cross-section | 1.00 ... 2.50 mm ² (AWG 18 ... AWG 14) |
|-------------------------|---|

Motor end

| | |
|---------|-------------------------|
| Version | Plug-in screw terminals |
|---------|-------------------------|

| | |
|-------------------------|---|
| Conductor cross-section | 1.00 ... 2.50 mm ² (AWG 18 ... AWG 14) |
|-------------------------|---|

DC link (for braking resistor)

| | |
|---------|-------------------------|
| Version | Plug-in screw terminals |
|---------|-------------------------|

| | |
|-------------------------|---|
| Conductor cross-section | 1.00 ... 2.50 mm ² (AWG 18 ... AWG 14) |
|-------------------------|---|

| | |
|-------------------|-----------------|
| Line length, max. | 15 m (49.21 ft) |
|-------------------|-----------------|

| | |
|---------------|--------------------------|
| PE connection | On housing with M4 screw |
|---------------|--------------------------|

Max. motor cable length

| | |
|----------|------------------|
| Shielded | 50 m (164.04 ft) |
|----------|------------------|

| | |
|------------|-------------------|
| Unshielded | 100 m (328.08 ft) |
|------------|-------------------|

Standards

| | |
|---------------------------|---------------------------|
| Compliance with standards | UL, cUL, CE, C-Tick (RCM) |
|---------------------------|---------------------------|

| | |
|------------|---|
| CE marking | EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC |
|------------|---|



Figure similar

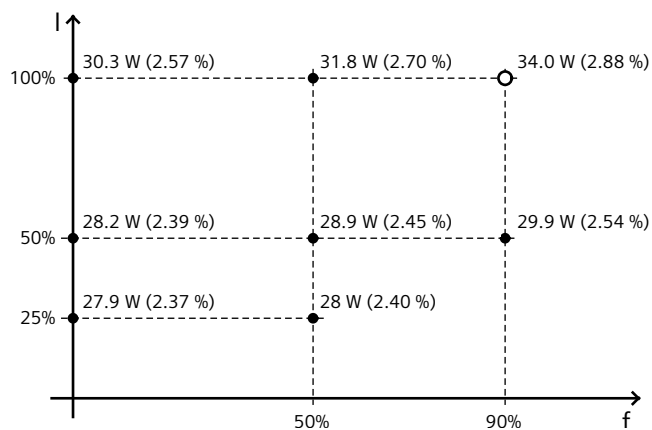
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Converter losses to EN 50598-2*

Efficiency class IE2

Comparison with the reference converter (90% / 100%) -83.83 %



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 EN 50598) 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

Pobrano z <https://falowniki-sklep.pl/falownik-sinamics-g120c-6sl3210-1ke11-8af2-siemens-3-fazowy-o-mocy-0-37-0-55-kw>