



Figure similar

MLFB-Ordering data 6SL3511-1PE27-5AM0

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

Item no. :
Consignment no. :
Project :

| Rated data | | General tech. specifications | |
|-----------------------------------------------------------------------|--------------------------|------------------------------|--------------------------------------------------------|
| Input | | Power factor λ | 0.70 ... 0.85 |
| Number of phases | 3 AC | Efficiency η | 0.95 |
| Line voltage | 380 ... 500 V \pm 10 % | Ambient conditions | |
| Line frequency | 47 ... 63 Hz | Cooling | demand-driven air cooling via integrated fan |
| Rated current | 17.90 A | | |
| Output | | Installation altitude | 1000 m |
| Number of phases | 3 AC | Ambient temperature | |
| Rated voltage | 500 V | Operation | -10 ... 40 °C (14 ... 104 °F) |
| Rated power | 7.50 kW | Transport | -40 ... 70 °C (-40 ... 158 °F) |
| Rated current (IN) | 19.00 A | Storage | -40 ... 70 °C (-40 ... 158 °F) |
| Max. output current | 38.00 A | Relative humidity | |
| Pulse frequency | 4.000 | Max. operation | 95 % at 40 °C (104 °F); RH, condensation not permitted |
| Output frequency for V/f control | 0 ... 650 Hz | | |
| Due to legal restrictions a limitation to 550 Hz is under preparation | | | |

Overload capability

High Overload (HO)

Average max. rated output current during a cycle time of 300 s; 1.5 × rated output current (i.e. 150% overload) for 60 s with a cycle time of 300 s; 2 × rated output current (i.e. 200 % overload) for 3 s with a cycle time of 300 s

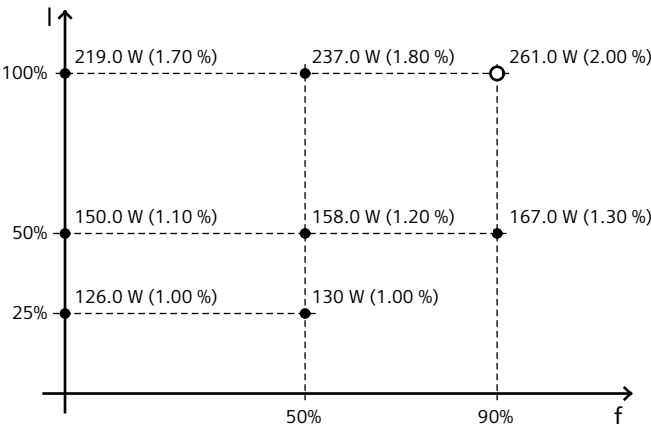
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| Mechanical data | | Connections | |
|--------------------------------------------------------------------------------------|------------------|-------------------------------------------|-------------------------------|
| Degree of protection | IP65 / UL type 3 | Line side | |
| Frame size | FSC | Version | HAN Q4/2 (connector) |
| Net weight | 9.80 kg | Conductor cross-section | 4.00 ... 6.00 mm ² |
| Width | 445.0 mm | Motor end | |
| Height | 210.0 mm | Version | HAN Q8 (socket) |
| Depth | 240.0 mm | Conductor cross-section | 4.00 mm ² |
| Inputs / outputs | | Max. motor cable length | |
| Standard digital inputs | | Shielded | 15 m |
| Number | 4 | Unshielded | 30 m |
| Analog / digital inputs | | Communication | |
| Number | 1 | Communication | AS-Interface |
| PTC/ KTY interface | | Closed-loop control techniques | |
| 1 input, connectable sensors: PTC, KTY or Thermo-Click, connection via Power Modules | | V/f linear / square-law / parameterizable | Yes |
| | | V/f with flux current control (FCC) | Yes |
| Converter losses to IEC61800-9-2* | | Standards | |
| Efficiency class | IE2 | Compliance with standards | |
| Comparison with the reference converter (90% / 100%) | 36.50 % | UL 508C (UL list number E121068), CE, RCM | |



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.

*calculated values

CE marking

Low-voltage directive 2006/95/EC