



Figure similar

### MLFB-Ordering data

6SL3511-1PE21-5AM0

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

Item no. :  
Consignment no. :  
Project :

| Rated data  |                          | General tech. specifications             |  |
|---|--------------------------|--|--|
| <b>Input</b>  |                          | <b>Power factor <math>\lambda</math></b> | 0.70 ... 0.85  |
| Number of phases  | 3 AC                     | <b>Efficiency <math>\eta</math></b>      | 0.95   |
| Line voltage  | 380 ... 500 V $\pm 10\%$ | <b>Ambient conditions</b>                |  |
| Line frequency  | 47 ... 63 Hz             | <b>Cooling</b>                           | Convection   |
| Rated current   | 3.80 A                   | <b>Installation altitude</b>             | 1000 m   |
| <b>Output</b>   |                          | <b>Ambient temperature</b>               |  |
| Number of phases  | 3 AC                     | <b>Operation</b>                         | -10 ... 40 °C (14 ... 104 °F)                          |
| Rated voltage   | 500 V                    | <b>Transport</b>                         | -40 ... 70 °C (-40 ... 158 °F)                         |
| Rated power   | 1.50 kW                  | <b>Storage</b>                           | -40 ... 70 °C (-40 ... 158 °F)                         |
| Rated current (IN)  | 4.30 A                   | <b>Relative humidity</b>                 |  |
| Max. output current   | 8.60 A                   | <b>Max. operation</b>                    | 95 % at 40 °C (104 °F); RH, condensation not permitted |
| Pulse frequency   | 4.000                    |  |  |
| 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

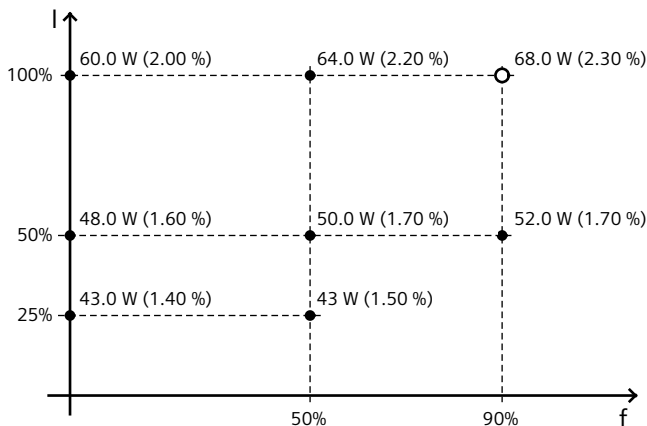


Figure similar

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| Mechanical data  |                  | Connections                               |                               |
|--|------------------|---|-------------------------------|
| Degree of protection   | IP65 / UL type 3 | <b>Line side</b>                          |                               |
| Frame size   | FSA              | Version                                   | HAN Q4/2 (connector)          |
| Net weight   | 7.00 kg          | Conductor cross-section                   | 1.50 ... 6.00 mm <sup>2</sup> |
| Width  | 445.0 mm         | <b>Motor end</b>                          |                               |
| Height   | 210.0 mm         | Version                                   | HAN Q8 (socket)               |
| Depth  | 145.0 mm         | Conductor cross-section                   | 1.00 ... 4.00 mm <sup>2</sup> |
| Inputs / outputs   |                  | <b>Max. motor cable length</b>            |                               |
| <b>Standard digital inputs</b>   |                  | Shielded                                  | 15 m                          |
| Number   | 4                | Unshielded                                | 30 m                          |
| <b>Analog / digital inputs</b>   |                  | Communication                             |                               |
| Number   | 1                | Communication                             | AS-Interface                  |
| <b>PTC/ KTY interface</b>  |                  | 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%)                                 | 31.70 %          | 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.

\*converted values

CE marking Low-voltage directive 2006/95/EC