

MLFB-Ordering data

6SL3210-5BE21-1CV0



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Rated data	General tech. specifications																																																		
Input <table> <tr> <td>Number of phases</td><td>3 AC</td></tr> <tr> <td>Line voltage</td><td>380 ... 480 V -15 % +10 %</td></tr> <tr> <td>Line frequency</td><td>47 ... 63 Hz</td></tr> </table> Output <table> <tr> <td>Number of phases</td><td>3 AC</td></tr> <tr> <td>Rated voltage</td><td>400 V</td></tr> <tr> <td>Rated power (HO)</td><td>1.10 kW / 1.50 hp</td></tr> <tr> <td>Rated power (LO)</td><td>1.10 kW / 1.50 hp</td></tr> <tr> <td>Rated current (HO)</td><td>3.10 A</td></tr> <tr> <td>Rated current (LO)</td><td>3.10 A</td></tr> <tr> <td>Rated current (HO) at 480V</td><td>3.10 A</td></tr> <tr> <td>Rated current (LO) at 480V</td><td>3.10 A</td></tr> <tr> <td>Pulse frequency</td><td>4.00 kHz</td></tr> <tr> <td>Output frequency</td><td>0 ... 550 Hz</td></tr> </table>	Number of phases	3 AC	Line voltage	380 ... 480 V -15 % +10 %	Line frequency	47 ... 63 Hz	Number of phases	3 AC	Rated voltage	400 V	Rated power (HO)	1.10 kW / 1.50 hp	Rated power (LO)	1.10 kW / 1.50 hp	Rated current (HO)	3.10 A	Rated current (LO)	3.10 A	Rated current (HO) at 480V	3.10 A	Rated current (LO) at 480V	3.10 A	Pulse frequency	4.00 kHz	Output frequency	0 ... 550 Hz	<table> <tr> <td>Power factor λ</td><td>0.72</td></tr> <tr> <td>Offset factor $\cos \varphi$</td><td>0.95</td></tr> <tr> <td>Efficiency η</td><td>0.98</td></tr> <tr> <td>Filter class (integrated)</td><td>Class A</td></tr> </table> Ambient conditions <table> <tr> <td>Cooling</td><td>External fan</td></tr> <tr> <td>Installation altitude</td><td>1000 m (3281 ft)</td></tr> </table> Ambient temperature <table> <tr> <td>Operation</td><td>-10 ... 60 °C (14 ... 140 °F)</td></tr> <tr> <td>Storage</td><td>-40 ... 70 °C (-40 ... 158 °F)</td></tr> </table> Relative humidity <table> <tr> <td>Max. operation</td><td>95 %</td></tr> </table> Communication <table> <tr> <td>Communication</td><td>USS, Modbus RTU</td></tr> </table> Standards <table> <tr> <td>Compliance with standards</td><td>CE, cULus, C-Tick (RCM), KC</td></tr> <tr> <td>CE marking</td><td>EN 61800-5-1 /EN 60204-1 and EN 61800-3</td></tr> </table>	Power factor λ	0.72	Offset factor $\cos \varphi$	0.95	Efficiency η	0.98	Filter class (integrated)	Class A	Cooling	External fan	Installation altitude	1000 m (3281 ft)	Operation	-10 ... 60 °C (14 ... 140 °F)	Storage	-40 ... 70 °C (-40 ... 158 °F)	Max. operation	95 %	Communication	USS, Modbus RTU	Compliance with standards	CE, cULus, C-Tick (RCM), KC	CE marking	EN 61800-5-1 /EN 60204-1 and EN 61800-3
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Overload capability

Low Overload (LO)

110 % rated output current for 60 s, cycle time 300 s

High Overload (HO)

150 % rated output current for 60 s, cycle time 300 s

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Figure similar

Mechanical data	
Mounting position	Wall mounting / side-by-side mounting
Degree of protection	IP20 / UL open type
Size	FSA
Net weight	1.10 kg (2.43 lb)
Width	90.0 mm (3.54 in)
Height	166.0 mm (6.54 in)
Depth	145.5 mm (5.73 in)

Inputs / outputs	
Standard digital inputs	
Number	4
Digital outputs	
Number as relay changeover contact	1
Number as transistor	1
Analog inputs	
Number	2 (Can be used as additional digital input)
Analog outputs	
Number	1

Connections	
Max. motor cable length	
Shielded	10 m (33 ft)
Unshielded	50 m (164 ft)

Converter losses to EN 50598-2*	
Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-26.01 %

Relative Torque Generating Current (I)	Relative Motor Stator Frequency (f)	Losses (W)	Efficiency (%)
100%	90%	44.7 W (2.08%)	37.7 W (1.75%)
50%	50%	48.2 W (2.24%)	39.3 W (1.83%)
25%	25%	53.1 W (2.47%)	41.2 W (1.92%)

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

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