

MLFB-Ordering data

6SL3210-5BE31-8UV0



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>	Number of phases	3 AC	Line voltage	380 ... 480 V -15 % +10 %	Line frequency	47 ... 63 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>Unfiltered</td></tr> </table>	Power factor λ	0.72	Offset factor $\cos \varphi$	0.95	Efficiency η	0.98	Filter class (integrated)	Unfiltered																
Number of phases	3 AC																														
Line voltage	380 ... 480 V -15 % +10 %																														
Line frequency	47 ... 63 Hz																														
Power factor λ	0.72																														
Offset factor $\cos \varphi$	0.95																														
Efficiency η	0.98																														
Filter class (integrated)	Unfiltered																														
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>18.50 kW / 25.00 hp</td></tr> <tr> <td>Rated power (LO)</td><td>22.00 kW / 30.00 hp</td></tr> <tr> <td>Rated current (HO)</td><td>38.00 A</td></tr> <tr> <td>Rated current (LO)</td><td>45.00 A</td></tr> <tr> <td>Rated current (HO) at 480V</td><td>34.00 A</td></tr> <tr> <td>Rated current (LO) at 480V</td><td>40.00 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	Rated voltage	400 V	Rated power (HO)	18.50 kW / 25.00 hp	Rated power (LO)	22.00 kW / 30.00 hp	Rated current (HO)	38.00 A	Rated current (LO)	45.00 A	Rated current (HO) at 480V	34.00 A	Rated current (LO) at 480V	40.00 A	Pulse frequency	4.00 kHz	Output frequency	0 ... 550 Hz	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>	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 %
Number of phases	3 AC																														
Rated voltage	400 V																														
Rated power (HO)	18.50 kW / 25.00 hp																														
Rated power (LO)	22.00 kW / 30.00 hp																														
Rated current (HO)	38.00 A																														
Rated current (LO)	45.00 A																														
Rated current (HO) at 480V	34.00 A																														
Rated current (LO) at 480V	40.00 A																														
Pulse frequency	4.00 kHz																														
Output frequency	0 ... 550 Hz																														
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 <table> <tr> <td>Communication</td><td>USS, Modbus RTU</td></tr> </table>	Communication	USS, Modbus RTU																												
Communication	USS, Modbus RTU																														
	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>	Compliance with standards	CE, cULus, C-Tick (RCM), KC	CE marking	EN 61800-5-1 /EN 60204-1 and EN 61800-3																										
Compliance with standards	CE, cULus, C-Tick (RCM), KC																														
CE marking	EN 61800-5-1 /EN 60204-1 and EN 61800-3																														

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



Figure similar

Mechanical data

Mounting position	Through-hole mounting / wall mounting / side-by-side mounting
Degree of protection	IP20 / UL open type
Size	FSE
Net weight	6.24 kg (13.76 lb)
Width	245.0 mm (9.65 in)
Height	264.5 mm (10.41 in)
Depth	209.0 mm (8.23 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
--------	---

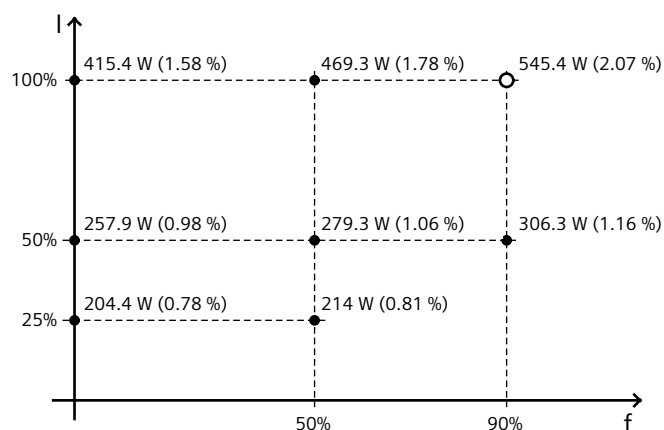
Connections

Max. motor cable length

Shielded	50 m (164 ft)
Unshielded	100 m (328 ft)

Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-41.02 %



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