

MLFB-Ordering data

6SL3210-5BE22-2UV0



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>2.20 kW / 3.00 hp</td></tr> <tr> <td>Rated power (LO)</td><td>2.20 kW / 3.00 hp</td></tr> <tr> <td>Rated current (HO)</td><td>5.60 A</td></tr> <tr> <td>Rated current (LO)</td><td>5.60 A</td></tr> <tr> <td>Rated current (HO) at 480V</td><td>4.80 A</td></tr> <tr> <td>Rated current (LO) at 480V</td><td>4.80 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)	2.20 kW / 3.00 hp	Rated power (LO)	2.20 kW / 3.00 hp	Rated current (HO)	5.60 A	Rated current (LO)	5.60 A	Rated current (HO) at 480V	4.80 A	Rated current (LO) at 480V	4.80 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)	2.20 kW / 3.00 hp																														
Rated power (LO)	2.20 kW / 3.00 hp																														
Rated current (HO)	5.60 A																														
Rated current (LO)	5.60 A																														
Rated current (HO) at 480V	4.80 A																														
Rated current (LO) at 480V	4.80 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

MLFB-Ordering data

6SL3210-5BE22-2UV0



Figure similar

Mechanical data	
Mounting position	Wall mounting / side-by-side mounting
Degree of protection	IP20 / UL open type
Size	FSA
Net weight	1.00 kg (2.20 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 IEC61800-9-2*																																					
Efficiency class	IE2																																				
Comparison with the reference converter (90% / 100%)	31.00 %																																				
<table><tr><th>I (%)</th><th>f (%)</th><th>Losses (W)</th><th>Percentage (%)</th></tr><tr><td>100</td><td>0</td><td>68.3</td><td>1.80</td></tr><tr><td>100</td><td>50</td><td>75.2</td><td>1.90</td></tr><tr><td>100</td><td>90</td><td>86.6</td><td>2.20</td></tr><tr><td>50</td><td>0</td><td>54.2</td><td>1.40</td></tr><tr><td>50</td><td>50</td><td>57.1</td><td>1.50</td></tr><tr><td>50</td><td>90</td><td>61.2</td><td>1.60</td></tr><tr><td>25</td><td>0</td><td>48.4</td><td>1.30</td></tr><tr><td>25</td><td>50</td><td>50</td><td>1.30</td></tr></table>		I (%)	f (%)	Losses (W)	Percentage (%)	100	0	68.3	1.80	100	50	75.2	1.90	100	90	86.6	2.20	50	0	54.2	1.40	50	50	57.1	1.50	50	90	61.2	1.60	25	0	48.4	1.30	25	50	50	1.30
I (%)	f (%)	Losses (W)	Percentage (%)																																		
100	0	68.3	1.80																																		
100	50	75.2	1.90																																		
100	90	86.6	2.20																																		
50	0	54.2	1.40																																		
50	50	57.1	1.50																																		
50	90	61.2	1.60																																		
25	0	48.4	1.30																																		
25	50	50	1.30																																		
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																																					