

Article No. : 6SL3220-3YE64-0CB0



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

Item no. :  
Consignment no. :  
Project :

Figure similar

Rated data		
<b>Input</b>		
Number of phases	3 AC	
Line voltage	380 ... 480 V +10 % -10 %	
Line frequency	47 ... 63 Hz	
<b>Rated voltage</b>	<b>400V IEC</b>	<b>480V NEC</b>
Rated current (LO)	924.00 A	751.00 A
Rated current (HO)	756.00 A	614.00 A
<b>Output</b>		
Number of phases	3 AC	
<b>Rated voltage</b>	<b>400V IEC</b>	<b>480V NEC<sup>1)</sup></b>
Rated power (LO)	500.00 kW	600.00 hp
Rated power (HO)	400.00 kW	500.00 hp
Rated current (LO)	890.00 A	724.00 A
Rated current (HO)	728.00 A	591.00 A
Rated current (IN)	910.00 A	
Max. output current	1,202.00 A	
Pulse frequency	4 kHz	
Output frequency for vector control	0 ... 100 Hz	
Output frequency for V/f control	0 ... 100 Hz	
<b>Overload capability</b>		
Low Overload (LO)		
110% base load current IL for 60 s in a 300 s cycle time		
High Overload (HO)		
150% x base load current IH for 60 s within a 300 s cycle time		
General tech. specifications		
Power factor $\lambda$	0.75 ... 0.93	
Offset factor $\cos \phi$	0.96	
Efficiency $\eta$	0.98	
Sound pressure level (1m)	74 dB	
Power loss <sup>3)</sup>	10.500 kW	
Filter class (integrated)	RFI suppression filter for Category C3	
EMC category (with accessories)	Category C3	
Safety function "Safe Torque Off"	without SIRIUS device (e.g. via S7-1500F)	
Communication		
Communication	USS, Modbus RTU, BACnet MS/TP	

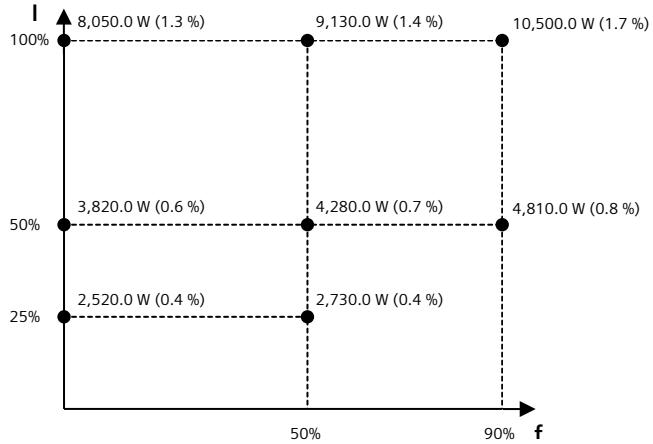
Inputs / outputs		
<b>Standard digital inputs</b>		
Number	6	
Switching level: 0 → 1	11 V	
Switching level: 1 → 0	5 V	
Max. inrush current	15 mA	
<b>Fail-safe digital inputs</b>		
Number	1	
<b>Digital outputs</b>		
Number as relay changeover contact	2	
Output (resistive load)	DC 30 V, 5.0 A	
Number as transistor	0	
<b>Analog / digital inputs</b>		
Number	2 (Differential input)	
Resolution	10 bit	
<b>Switching threshold as digital input</b>		
0 → 1	4 V	
1 → 0	1.6 V	
<b>Analog outputs</b>		
Number	1 (Non-isolated output)	
<b>PTC/ KTY interface</b>		
1 motor temperature sensor input, sensors that can be connected PTC, KTY and Thermo-Click, accuracy $\pm 5^\circ\text{C}$		

### Closed-loop control techniques

V/f linear / square-law / parameterizable	Yes
V/f with flux current control (FCC)	Yes
V/f ECO linear / square-law	Yes
Sensorless vector control	Yes
Vector control, with sensor	No
Encoderless torque control	No
Torque control, with encoder	No

Article No. : 6SL3220-3YE64-0CB0

Ambient conditions		Mechanical data	
Standard board coating type	Class 3C2, according to IEC 60721-3-3: 2002	Degree of protection	IP20 / UL open type
Cooling	Air cooling using an integrated fan	Frame size	FSJ
Cooling air requirement	0.450 m <sup>3</sup> /s (15.892 ft <sup>3</sup> /s)	Net weight	250 kg (551.16 lb)
Installation altitude	1,000 m (3,280.84 ft)	Dimensions	
Ambient temperature		Width	801 mm (31.54 in)
Operation	0 ... 45 °C (32 ... 113 °F)	Height	1,621 mm (63.82 in)
Transport	-40 ... 70 °C (-40 ... 158 °F)	Depth	393 mm (15.47 in)
Storage	-25 ... 55 °C (-13 ... 131 °F)	Standards	
Relative humidity		Compliance with standards	UL, cUL, CE, C-Tick (RCM), EAC, KCC, SEMI F47, REACH
Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible	CE marking	EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC
Connections			
Signal cable		Converter losses to IEC61800-9-2*	
Conductor cross-section	0.15 ... 1.50 mm <sup>2</sup> (AWG 24 ... AWG 16)	Efficiency class	IE2
Line side		Comparison with the reference converter (90% / 100%)	40.7 %
Version	M12 screw		
Conductor cross-section	6 x 240.00 mm <sup>2</sup> (MCM 4 x 500 ... MCM 6 x 500)		
Motor end			
Version	M12 screw		
Conductor cross-section	6 x 240.00 mm <sup>2</sup> (MCM 4 x 500 ... MCM 8 x 500)		
DC link (for braking resistor)			
PE connection	M12 screw		
Max. motor cable length			
Shielded	150 m (492.13 ft)		



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

<sup>1)</sup>The output current and HP ratings are valid for the voltage range 440V-480V

<sup>2)</sup>Typical value. More information can be found in the element group "Converter losses to IEC 61800-9-2" in this datasheet.

Article No. : 6SL3220-3YE64-0CB0

### Operator panel: Intelligent Operator Panel (IOP-2)

Screen		Ambient conditions	
Display design	LCD color	Ambient temperature	
Screen resolution	320 x 240 Pixel	Operation	0 ... 50 °C (32 ... 122 °F) 55 °C only with door installation kit
Mechanical data		Relative humidity at 25°C during	
Degree of protection	IP55 / UL type 12	Storage	-40 ... 70 °C (-40 ... 158 °F)
Net weight	0.134 kg (0.30 lb)	Transport	-40 ... 70 °C (-40 ... 158 °F)
Dimensions			
Width	70.00 mm (2.76 in)	Max. operation	95 %
Height	106.85 mm (4.21 in)	Certificate of suitability	CE, cULus, EAC, KCC, RCM
Depth	19.65 mm (0.77 in)	Approvals	

MLFB-Ordering data

6SL3000-0CE41-0AA0



Figure similar

Client order no. :

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :

Rated data	Connections
------------	-------------

### Input

Number of phases 3 AC

Line voltage 380 ... 480 V

### Output

Rated current 1060.0 A

### Load side

Version 1 x hole for M12

### Mechanical data

### Dimensions

Width 350.0 mm (13.8 in)

### PE connection

Height 321.0 mm (12.6 in)

Version M6 screw

Depth 211.5 mm (8.3 in)

Degree of protection IP00

Net weight 69.6 kg (153.0 lb)