

Article No. : 6SL3230-2YE18-0UPO



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated data

Input

Number of phases	3 AC	
Line voltage	380 ... 480 V +10 % -20 %	
Line frequency	47 ... 63 Hz	
Rated voltage	400V IEC	480V NEC
Rated current (LO)	6.90 A	5.80 A
Rated current (HO)	5.50 A	4.60 A

Output

Number of phases	3 AC	
Rated voltage	400V IEC	480V NEC¹⁾
Rated power (LO)	3.00 kW	4.00 hp
Rated power (HO)	2.20 kW	3.00 hp
Rated current (LO)	7.70 A	6.20 A
Rated current (HO)	5.90 A	4.80 A
Rated current (IN)	8.00 A	
Max. output current	9.10 A	
Pulse frequency	4 kHz	
Output frequency for vector control	0 ... 200 Hz	
Output frequency for V/f control	0 ... 550 Hz	

Overload capability

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 600 s cycle time		

General tech. specifications		
Power factor λ	0.70 ... 0.85	
Offset factor $\cos \varphi$	0.96	
Efficiency η	0.97	
Sound pressure level (1m)	55 dB	
Power loss ³⁾	0.125 kW	
Filter class (integrated)	Unfiltered	
EMC category (with accessories)	without	
Safety function "Safe Torque Off"	without SIRIUS device (e.g. via S7-1500F)	

Communication

Communication PROFIBUS DP

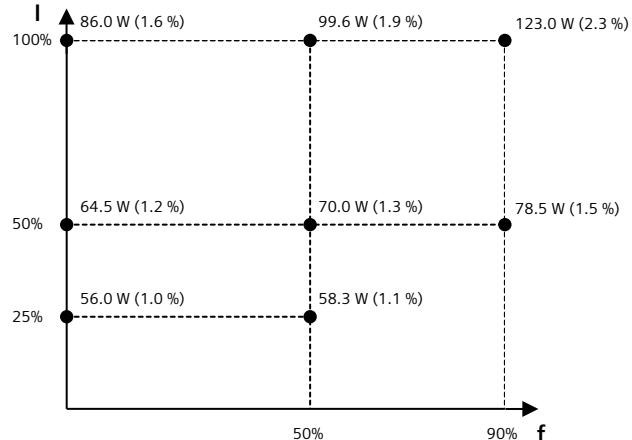
Inputs / outputs

Standard digital inputs		
Number	6	
Switching level: 0 → 1	11 V	
Switching level: 1 → 0	5 V	
Max. inrush current	15 mA	
Fail-safe digital inputs		
Number	1	
Digital outputs		
Number as relay changeover contact	2	
Output (resistive load)	DC 30 V, 5.0 A	
Number as transistor	0	
Analog / digital inputs		
Number	2 (Differential input)	
Resolution	10 bit	
Switching threshold as digital input		
0 → 1	4 V	
1 → 0	1.6 V	
Analog outputs		
Number	1 (Non-isolated output)	
PTC/ KTY interface		
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	

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Ambient conditions		Mechanical data	
Standard board coating type	Class 3C3, according to IEC 60721-3-3: 2002	Degree of protection	IP20 / UL open type
Cooling	Air cooling using an integrated fan	Frame size	FSA
Cooling air requirement	0.005 m ³ /s (0.177 ft ³ /s)	Net weight	3.2 kg (7.05 lb)
Installation altitude	1,000 m (3,280.84 ft)	Dimensions	
Ambient temperature		Width	73 mm (2.87 in)
Operation	-20 ... 45 °C (-4 ... 113 °F)	Height	232 mm (9.13 in)
Transport	-40 ... 70 °C (-40 ... 158 °F)	Depth	218 mm (8.58 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			
Conductor cross-section	0.15 ... 1.50 mm ² (AWG 24 ... AWG 16)	Converter losses to IEC61800-9-2*	
Line side			
Version	screw-type terminal	Efficiency class	IE2
Conductor cross-section	1.50 ... 2.50 mm ² (AWG 16 ... AWG 14)	Comparison with the reference converter (90% / 100%)	36.2 %
Motor end			
Version	Screw-type terminals		
Conductor cross-section	1.50 ... 2.50 mm ² (AWG 16 ... AWG 14)		
DC link (for braking resistor)			
PE connection	On housing with M4 screw		
Max. motor cable length			
Shielded	150 m (492.13 ft)		
Unshielded	300 m (984.25 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.

*converted values

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

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

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Operator panel: Basic Operator Panel (BOP-2)	
Screen	Ambient conditions
Display design	LCD, monochrome
Mechanical data	
Degree of protection	IP55 / UL type 12
Net weight	0.140 kg (0.31 lb)
Dimensions	
Width	70.00 mm (2.76 in)
Height	106.85 mm (4.21 in)
Depth	19.60 mm (0.77 in)
Ambient temperature	
Operation	0 ... 50 °C (32 ... 122 °F)
Storage	-40 ... 70 °C (-40 ... 158 °F)
Transport	-40 ... 70 °C (-40 ... 158 °F)
Relative humidity at 25°C during	
Max. operation	95 %
Approvals	
Certificate of suitability	CE, cULus, EAC, KCC, RCM

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