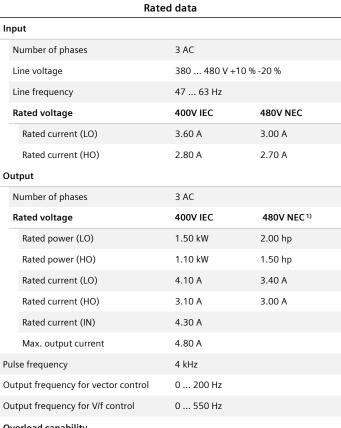


Article No.: 6SL3230-2YE14-1UP0

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



Overload capability

Low Overload (LO)

110% base load current IL for 60 s in a 300 s cycle time

High Overload (HO)

Communication

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 $\cos\phi$	0.96	
Efficiency η	0.97	
Sound pressure level (1m)	55 dB	
Power loss 3)	0.072 kW	
Filter class (integrated)	Unfiltered	
EMC category (with accessories)	without	
Safety function "Safe Torque Off"	without SIRIUS device (e.g. via S7- 1500F)	

Communication



Item no. : Consignment no. : Project :

Inputs / outputs			
Standard digital inputs			
Number	6		
Switching level: $0 \rightarrow 1$	11 V		
Switching level: $1 \rightarrow 0$	5 V		
Max. inrush current	15 mA		
-ail-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/KTV interface			

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		

PROFIBUS DP

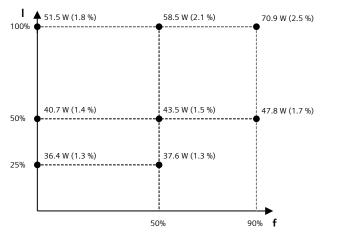


Article No.: 6SL3230-2YE14-1UP0

Ambient conditions			
Standard board coating type	Class 3C3, according to IEC 60721-3-3: 2002		
Cooling	Air cooling using an integrated fan		
Cooling air requirement	0.005 m³/s (0.177 ft³/s)		
Installation altitude	1,000 m (3,280.84 ft)		
Ambient temperature			
Operation	-20 45 °C (-4 113 °F)		
Transport	-40 70 °C (-40 158 °F)		
Storage	-25 55 °C (-13 131 °F)		
Relative humidity			
Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible		
Conn	ections		
Signal cable			
Conductor cross-section	0.15 1.50 mm ² (AWG 24 AWG 16)		
Line side			
Version	screw-type terminal		
Conductor cross-section	1.50 2.50 mm ² (AWG 16 AWG 14)		
Motor end			
Version	Screw-type terminals		
Conductor cross-section	1.50 2.50 mm² (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)		

Mechanical data			
Degree of protection	IP20 / UL open type		
Frame size	FSA		
Net weight	3.2 kg (7.05 lb)		
Dimensions			
Width	73 mm (2.87 in)		
Height	232 mm (9.13 in)		
Depth	218 mm (8.58 in)		
Star	ndards		
Compliance with standards UL, cUL, CE, C-Tick (RCM), EAC, KCC, SEMI F47, REACH			
CE marking	EMC Directive 2004/108/EC, Low- Voltage Directive 2006/95/EC		





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

³⁾Typical value. More information can be found in the element group "Converter losses to IEC 61800-9-2" in this datasheet.



Article No.: 6SL3230-2YE14-1UP0

Operator panel: Basic Operator Panel (BOP-2)				
	Screen			
Display design	LCD, monochrome	Ambient temperature		
	Mechanical data	Operation		
Degree of protection	IP55 / UL type 12	Storage		
Net weight	0.140 kg (0.31 lb)	Transport Relative humidity at 25		
Dimensions		Max. operation		
Width	70.00 mm (2.76 in)	iviax. operation		
Height	106.85 mm (4.21 in)			
Depth	19.60 mm (0.77 in)	Certificate of suitability		

Ambient conditions			
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		



Output voltage

Output current

Article No.: 6SL3230-2YE14-1UP0

			I/O Exte	nsion	Module
	In	puts /	outputs]	
D	igital inputs			J	Dimensio
	Number of digital inputs 1)		2		Width
	Conductor cross-section		0.5 1.5 mm² (AWG 21 AWG 16) Alternatively 2 x 0.5 mm²		Height Depth
	Input voltage (0→1)		11 V		
	Input voltage (1→0)		5 V		¹⁾ DI 6: digit 250 mA)
	Input voltage, max.		30 V		²⁾ The max. varies bet
D	igital outputs				3)2 analog i be option
	Number of digital outputs		4		4) Switchabl
	Conductor cross-section		1.5 mm² (AWG 16)		
	Output current 2)		2 A		
Α	nalog inputs				
	Number of analog inputs 3)		2		
	Conductor cross-section		0.5 1.5 mm² (AWG 21 AWG 16) alternatively 2*0.5 mm²		
	Current		0 20 mA		
Α	nalog outputs				
	Number of analog outputs		2		
	Type of analog outputs 4)		Non-isolated output		
	Conductor cross-section		0.5 1.5 mm² (AWG 21 AWG 16) Alternatively 2 x 0.5 mm²		

0 ... 10 V

0 ... 20 mA

Mechanical data		
Dimensions		
Width	71 mm (2.80 in)	
Height	117 mm (4.61 in)	
Depth	27 mm (1.06 in)	
Depth	27 mm (1.06 in)	

¹⁾DI 6: digital input; DI 7: P or M switch; DI COM: Input for Control Unit interface (24 V out, max. 250 mA)

⁴⁾Switchable between voltage (0 ... 10 V) and current (0 ... 20 mA) using a parameter

 $^{^{2)}} The\ max$, current depends on the temperature and the size of the connected converted. It varies between 2 A and 3 A at 30 V DC.

 $^{^{3)}2}$ analog inputs for the connection of Pt1000/Ni1000 temperature sensors. One of which can be optionally used as analog input.

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