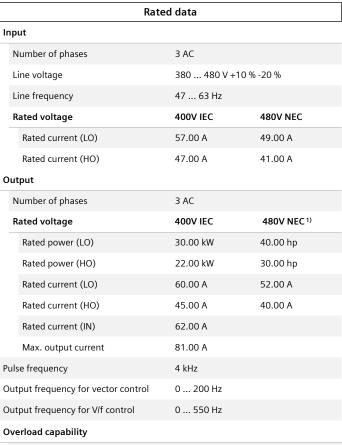


Article No.: 6SL3230-2YE34-1AP0

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



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			
0.90 0.95			
0.99			
0.97			
70 dB			
0.841 kW			
RFI suppression filter for Category C2			
Category C2			
without SIRIUS device (e.g. via S7- 1500F)			

Communication

Notice Shakkers

Item no. : Consignment no. : Project :

Inputs / outputs			
Standard digital inputs			
6			
11 V			
5 V			
15 mA			
1			
2			
DC 30 V, 5.0 A			
0			
2 (Differential input)			
10 bit			
4 V			
1.6 V			
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	

PROFIBUS DP

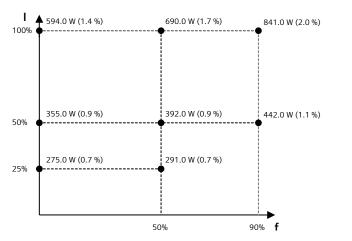


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Ambient conditions				
Standard board coating type	Class 3C3, according to IEC 60721-3-3: 2002			
Cooling	Air cooling using an integrated fan			
Cooling air requirement	0.055 m³/s (1.942 ft³/s)			
Installation altitude	1,000 m (3,280.84 ft)			
Ambient 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			
Connections				
Signal cable				
Conductor cross-section	0.15 1.50 mm <sup>2</sup> (AWG 24 AWG 16)			
Line side				
Version	screw-type terminal			
Conductor cross-section	10.00 35.00 mm <sup>2</sup> (AWG 8 AWG 2)			
Motor end				
Version	Screw-type terminals			
	<b>71</b>			
Conductor cross-section	10.00 35.00 mm <sup>2</sup> (AWG 8 AWG 2)			
Conductor cross-section  DC link (for braking resistor)	10.00 35.00 mm²			
	10.00 35.00 mm²			
DC link (for braking resistor)	10.00 35.00 mm <sup>2</sup> (AWG 8 AWG 2)			
DC link (for braking resistor) PE connection	10.00 35.00 mm <sup>2</sup> (AWG 8 AWG 2)			

Mechanical data				
Degree of protection IP20 / UL open type				
Frame size	FSD			
Net weight	18 kg (39.68 lb)			
Dimensions				
Width	200 mm (7.87 in)			
Height	472 mm (18.58 in)			
Depth	248 mm (9.76 in)			
Standards				
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

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

<sup>&</sup>lt;sup>3)</sup>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 pane	el: 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			



**Digital outputs** 

Number of digital outputs

Conductor cross-section Output current 2)

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#### Inputs / outputs Mechanical data Dimensions **Digital inputs** Width 71 mm (2.80 in) Number of digital inputs 1) 0.5 ... 1.5 mm<sup>2</sup> (AWG 21 ... AWG 16) 117 mm (4.61 in) Height Conductor cross-section Alternatively 2 x 0.5 mm<sup>2</sup> Depth 27 mm (1.06 in) Input voltage (0→1) 11 V $^{1)}\mbox{DI}$ 6: digital input; DI 7: P or M switch; DI COM: Input for Control Unit interface (24 V out, max. 250 mA) Input voltage (1→0) 5 V 30 V Input voltage, max.

I/O Extension Module

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

4

2 A

1.5 mm<sup>2</sup> (AWG 16)

<sup>&</sup>lt;sup>2)</sup>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.

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