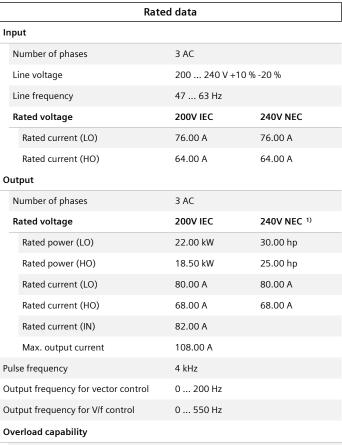


Article No.: 6SL3230-2YC32-1UP0

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		
Power factor λ	0.90 0.95	
Offset factor $\cos\phi$	0.99	
Efficiency η	0.97	
Sound pressure level (1m)	70 dB	
Power loss 3)	0.937 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 :



Figure simila

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
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)
DTC/ VTV intenfere	

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



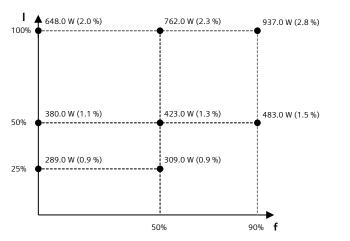
Article No.: 6SL3230-2YC32-1UP0

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	0.083 m³/s (2.931 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	25.00 70.00 mm ² (AWG 6 AWG 3/0)
Motor end	
Version	Screw-type terminals
Conductor cross-section	25.00 70.00 mm ² (AWG 6 AWG 3/0)
DC link (for braking resistor)	
PE connection	Screw-type terminals
Max. motor cable length	
Shielded	200 m (656.17 ft)
Unshielded	300 m (984.25 ft)

Mechanical data		
Degree of protection	IP20 / UL open type	
Frame size	FSE	
Net weight	16.6 kg (36.60 lb)	
Dimensions		
Width	275 mm (10.83 in)	
Height	551 mm (21.69 in)	
Depth	248 mm (9.76 in)	
Cton	. dd -	
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	
Converter losses to IEC61800-9-2*		

IE2

57.9 %



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

Efficiency class

Comparison with the reference converter (90% / 100%)

 $^{^{1)}}$ The output current and HP ratings are valid for the voltage range 220V-240V

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



Article No.: 6SL3230-2YC32-1UP0

Operator pane	el: Basic Operator Panel (BOP-2)
Screen	
LCD, monochrome	Ambient temperature
Mechanical data	
IP55 / UL type 12	Storage
0.140 kg (0.31 lb)	Transport Relative humidity at 25
	Max. operation
70.00 mm (2.76 in)	wax. operation
106.85 mm (4.21 in)	
19.60 mm (0.77 in)	Certificate of suitability
	Screen LCD, monochrome Mechanical data IP55 / UL type 12 0.140 kg (0.31 lb) 70.00 mm (2.76 in) 106.85 mm (4.21 in)

Ambient conditions Ambient temperature	
Storage	-40 70 °C (-40 158 °F)
Transport	-40 70 °C (-40 158 °F)
telative humidity at 25°C durir	ng
Max. operation	95 %
Approvals	
Certificate of suitability	CE, cULus, EAC, KCC, RCM



Conductor cross-section

Output voltage

Output current

Article No.: 6SL3230-2YC32-1UP0

I/O Extension Module Inputs / outputs **Digital inputs** Number of digital inputs 1) 0.5 ... 1.5 mm² (AWG 21 ... AWG 16) Conductor cross-section Alternatively 2 x 0.5 mm² Input voltage (0→1) 11 V Input voltage (1→0) 5 V 30 V Input voltage, max. **Digital outputs** Number of digital outputs 4 1.5 mm² (AWG 16) Conductor cross-section Output current 2) 2 A **Analog inputs** 2 Number of analog inputs 3) 0.5 ... 1.5 mm² (AWG 21 ... AWG 16) Conductor cross-section alternatively 2*0.5 mm² Current 0 ... 20 mA **Analog outputs** 2 Number of analog outputs Type of analog outputs 4) Non-isolated output

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)	

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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