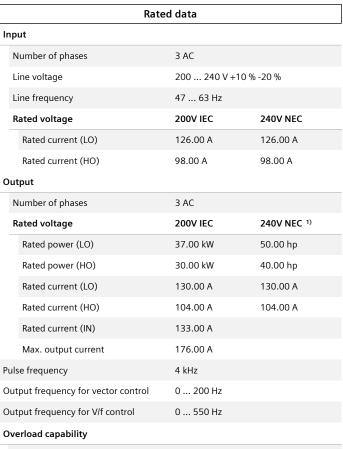


Article No.: 6SL3230-3YC36-1UP0

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)

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)	72 dB	
Power loss 3)	1.450 kW	
Filter class (integrated)	Unfiltered	
EMC category (with accessories)	without	
Safety function "Safe Torque Off"	without SIRIUS device (e.g. via S7- 1500F)	

_			
Com	mun	icat	ion
~~		···	

Communication PROFIBUS DP



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	
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		

PTC/ KTY interface

Number

1 motor temperature sensor input, sensors that can be connected PTC, KTY and Thermo-Click, accuracy $\pm 5~^{\circ}\text{C}$

1 (Non-isolated output)

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	

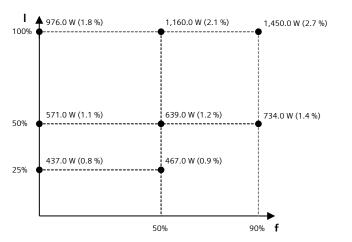


Article No.: 6SL3230-3YC36-1UP0

Class 3C3, according to IEC 6072 2002 Cooling Air cooling using an integrated far Cooling air requirement 0.153 m³/s (5.403 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), condensational icing not permissible Connections Signal cable 0.15 1.50 mm²	n		
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Connections Signal cable 0.15 1.50 mm ²	tion		
Signal cable			
0.15 1.50 mm ²			
0.15 1.50 mm ²	Signal cable		
Conductor cross-section (AWG 24 AWG 16)			
Line side			
Version M10 screw			
Conductor cross-section 35.00 2 x 120.00 mm ² (AWG 1 AWG 2 x 4/0)			
Motor end			
Version M10 screw			
Conductor cross-section $ 35.00 \dots 2 \times 120.00 \text{ mm}^2 $ (AWG 1 AWG 2 x 4/0)			
DC link (for braking resistor)			
PE connection M10 screw			
Max. motor cable length			
Shielded 300 m (984.25 ft)			

Mechanical data			
Degree of protection		IP20 / UL open type	
Frame size		FSF	
Net weight		18.8 kg (41.45 lb)	
Dimensions			
	Width	305 mm (12.01 in)	
	Height	709 mm (27.91 in)	
	Depth	369 mm (14.53 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	

Converter losses to IEC61800-9-2*	
Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	56.2 %



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 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.: 6SL3230-3YC36-1UP0

	Operator panel: I	ntelligent Operator Panel (IOP-2)
	Screen	
Display design	LCD color	Ambient temperature
Screen resolution	320 x 240 Pixel	Operation
Mechanical data		Storage
Degree of protection	IP55 / UL type 12	Transport
Net weight	0.134 kg (0.30 lb)	Relative humidity at 25°0
Dimensions		Max. operation
Width	70.00 mm (2.76 in)	
Height	106.85 mm (4.21 in)	
Depth	19.65 mm (0.77 in)	Certificate of suitability

A web in we now disting		
Ambient conditions Ambient temperature		
Operation	0 50 °C (32 122 °F)	
	55 °C only with door installation kit	
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	



Article No.: 6SL3230-3YC36-1UP0

Inputs / outputs gital inputs Number of digital inputs Conductor cross-section 0.5 ... 1.5 mm² (AWG 21 ... AWG 16) Alternatively 2 x 0.5 mm² Input voltage (0→1) Mechanical data Width 71 mm (2.80 in) Height 117 mm (4.61 in) Depth 27 mm (1.06 in)

I/O Extension Module

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

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

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.