

Article No.: 6SL3230-2YH36-1UP0

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

	Rated data				
Inp	Input				
ı	Number of phases	3 AC			
ı	ine voltage	500 690 V +10 % -20 %			
I	ine frequency	47 63 Hz			
ı	Rated voltage	690V IEC	600V NEC		
	Rated current (LO)	40.00 A	40.00 A		
	Rated current (HO)	36.60 A	36.60 A		
Output					
ı	Number of phases	3 AC			
ı	Rated voltage	690V IEC	600V NEC 1)		
	Rated power (LO)	37.00 kW	40.00 hp		
	Rated power (HO)	30.00 kW	30.00 hp		
	Rated current (LO)	42.00 A	42.00 A		
	Rated current (HO)	35.00 A	35.00 A		
	Rated current (IN)	43.00 A			
	Max. output current	57.00 A			
Pulse frequency		2 kHz			
Output frequency for vector control		0 200 Hz			
Output frequency for V/f control		0 550 Hz			
Ov	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
General tech.	specifications
Power factor λ	0.90 0.95
Offset factor $\cos\phi$	0.99
Efficiency η	0.98
Sound pressure level (1m)	70 dB
Power loss 3)	0.980 kW
Filter class (integrated)	Unfiltered
EMC category (with accessories)	without
Safety function "Safe Torque Off"	without SIRIUS device (e.g. via S7- 1500F)

_		
Commu	nica	ition

Communication PROFIBUS DP



Item no. : Consignment no. : Project :

_				
	Inputs / outputs			
S	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		
F	Analog / digital inputs			
	Number	2 (Differential input)		
	Resolution	10 bit		
S	witching threshold as digital input			
	0 → 1	4 V		

PTC/ KTY interface

Analog outputs

Number

 $1 \rightarrow 0$

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

1.6 V

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	

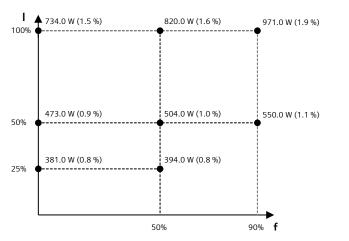


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Ambi	ent conditions		
Standard board coating type	Class 3C3, according to IEC 60721-3-3: 2002		
Cooling	Air cooling using an integrated fan		
Cooling air requirement	0.055 m³/s (1.942 ft³/s)		
Installation altitude	1,000 m (3,280.84 ft)		
Ambient temperature			
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		
Co	onnections		
Signal cable			
Conductor cross-section	0.15 1.50 mm ² (AWG 24 AWG 16)		
Line side			
Version	screw-type terminal		
Conductor cross-section	10.00 35.00 mm ² (AWG 8 AWG 2)		
Motor end			
Version	Screw-type terminals		
Conductor cross-section	10.00 35.00 mm ² (AWG 8 AWG 2)		
DC link (for braking resistor)			
PE connection	Screw-type terminals		
Max. motor cable length			
Shielded	300 m (984.25 ft)		
Unshielded	450 m (1,476.38 ft)		

Mechanical data		
Degree of protection	IP20 / UL open type	
Frame size	FSD	
Net weight	18.8 kg (41.45 lb)	
Dimensions		
Width	200 mm (7.87 in)	
Height	472 mm (18.58 in)	
Depth	248 mm (9.76 in)	
Sta	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 550V-600V

³⁾ 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)
Display design	LCD, monochrome	Ambient temperature
*		Operation
Mechanical data		Storage
Degree of protection	IP55 / UL type 12	Transport
Net weight	0.140 kg (0.31 lb)	Hallsport
Dimensions		Relative humidity at 25
Width	70.00 mm (2.76 in)	Max. 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		



Conductor cross-section

Output voltage

Output current

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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	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)

 $^{^{2)}} The\ max$, 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.
 ⁴⁾ Switchable between voltage (0 ... 10 V) and current (0 ... 20 mA) using a parameter

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