

Article No.: 6SL3220-3YE30-0UF0

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

Item no.:

Rated data

Input			
Number of phases	3 AC		
Line voltage	380 480 V +	10 % -20 %	
Line frequency	47 63 Hz	47 63 Hz	
Rated voltage	400V IEC	480V NEC	
Rated current (LO)	36.00 A	32.00 A	
Rated current (HO)	33.00 A	28.00 A	

Output

	lumber of phases	3 AC	
11	lumber of phases	3 AC	
R	ated voltage	400V IEC	480V NEC ₁₎
_	Rated power (LO)	18.50 kW	25.00 hp
	Rated power (HO)	15.00 kW	20.00 hp
	Rated current (LO)	38.00 A	34.00 A
	Rated current (HO)	32.00 A	27.00 A
	Rated current (IN)	39.00 A	
	Max. output current	51.30 A	
Pul	se frequency	4 kHz	
Out	put frequency for vector control	0 200 Hz	
Out	put frequency for V/f control	0 550 Hz	

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	
Power factor λ	0.90 0.95
Offset factor cos φ	0.99
Efficiency η	0.97
Sound pressure level (1m)	70 dB
Power loss ₃₎	0.598 kW
Filter class (integrated)	Unfiltered
EMC category (with accessories)	without



Consignment no. : Project :

Amb	ient conditions	
Standard board coating type	Class 3C2, 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	
Me	chanical data	
Degree of protection	IP20 / UL open type	
Size	FSD	
Net weight	17 kg (37.48 lb)	
Dimensions		
Width	200 mm (7.87 in)	
Height	472 mm (18.58 in)	
Depth	248 mm (9.76 in)	



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Inputs / outputs		
tandard digital inputs		
Number	6	
Switching level: 0 → 1	11 V	
Switching level: 1 → 0	5 V	
Max. inrush current	15 mA	
ail-safe digital inputs		
Number Digital outputs		
Number as relay changeover contact		
2Output (resistive load)	DC 30 V, 5.0 A	
Number as transistor	2000 1, 0.0 11	
Analog / digital inputs		
Number	2 (Differential input)	
Resolution	10 bit	
witching threshold as digital input	t .	
0 → 1	4 V	
1 → 0	1.6 V	
nalog outputs		
Number	1 (Non-isolated output)	
TC/ KTY interface		
1 motor temperature sensor input, se and Thermo-Click, accuracy ±5 °C	nsors that can be connected: PTC, KTY	
Closed lean s	ontrol techniques	

ciosea-ioop 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	Yes	

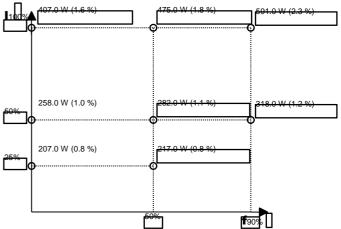
	Communication	
	Communication	
Communication	PROFINET EtherNet/IP	

No

Torque control, with encoder

Connections		
Signal cable		
Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)	
Line side		
Version	screw-type terminal	
Conductor cross-section	10.00 35.00 mm² (AWG 8 AWG 2)	
Motor end		
Version	Screw-type terminals	
Conductor cross-section	10.00 35.00 mm² (AWG 8 AWG 2)	
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)	

Converter losses to IEC61800-9-2*		
Efficiency class	IE2	
Comparison with the reference converter (90% / 100%)	45.2 %	



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

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

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.



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	Screen		Ambient conditions
Display design	LCD color	Ambient temperature	
Screen resolution	320 x 240 Pixel	Operation	0 50 °C (32 122 °F)
			55 °C only with door mounting kit
	Mechanical data	Storage	-40 70 °C (-40 158 °F)
Degree of protection	IP55 / UL type 12	Transport	-40 70 °C (-40 158 °F)
Net weight	0.134 kg (0.30 lb)	Relative humidity at 25°C d	,
Dimensions		Max. operation	95 %
Width	70.00 mm (2.76 in)		
Height	106.85 mm (4.21 in)		Approvals
Depth	19.65 mm (0.77 in)	Certificate of suitability	CE, cULus, EAC, KCC, RCM