

Article No.: 6SL3220-1YE22-0AF0

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	
Rated voltage	400V IEC	480V NEC
Rated current (LO)	12.00 A	10.60 A
Rated current (HO)	9.75 A	8.00 A

Output

î	number of phases	3 AC	
1	Rated voltage	400V IEC	480V NEC ₁₎
_	Rated power (LO)	5.50 kW	7.50 hp
	Rated power (HO)	4.00 kW	5.00 hp
	Rated current (LO)	13.20 A	11.00 A
	Rated current (HO)	10.20 A	7.60 A
	Rated current (IN)	13.60 A	
	Max. output current	18.00 A	
Pu	Ise frequency	4 kHz	
Ou	tput frequency for vector control	0 200 Hz	
Ou	tput 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 \(\lambda\)	0.70 0.85	
Offset factor cos φ	0.96	
Efficiency η	0.97	
Sound pressure level (1m)	63 dB	
Power loss)	0.191 kW	
Filter class (integrated)	RFI suppression filter for Category C2	
EMC category (with accessories)	Category C2	



Consignment no. : Project :

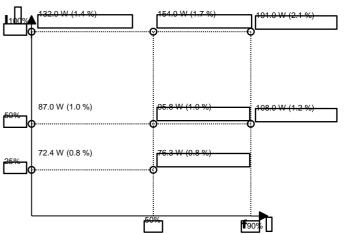
Ambi	ent conditions
Standard board coating type	Class 3C2, according to IEC 60721-3 2002
Cooling	Air cooling using an integrated fan
Cooling air requirement	0.009 m ³ /s (0.325 ft ³ /s)
Installation altitude	1,000 m (3,280.84 ft)
Ambient temperature	
Operation	-20 45 °C (-4 113 °F)
Transport	-40 70 °C (-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
Mec	hanical data
Degree of protection	IP20 / UL open type
Size	FSB
Net weight	6.16 kg (13.58 lb)
Dimensions	
Width	100 mm (3.94 in)
Height	275 mm (10.83 in)
Depth	218 mm (8.58 in)



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Inputs	/ outputs
tandard dîgîtal înputs	
Number	6
Switching level: 0 → 1	6 11 V
Switching level: 1 → 0	5 V
Max. inrush current	15 mA
ail-safe digital inputs	
Number Digital outputs	
Number as relay changeover conta	act
2Output (resistive load)	
	DC 30 V, 5.0 A
Number as transistor Analog / digital inputs	
No. and an	0 (5)(46
Number	2 (Differential input)
Resolution	10 bit
witching threshold as digital input	
Û → 1	4 V
1 → 0	1.6 V
Analog outputs	
Number	1 (Non-isolated output)
TC/ KTY interface	
1 motor temperature sensor input ஹார்,Tkrpymo-Click, accuracy ±5 ீC	, sensors that can be connected:
Closed-loop co	ontrol techniques
//f linear / square-law / parameteri	za lbės
//f with flux current control (FCC)	Yes
//f ECO linear / square-	Yes
aw Gensorless vector	Yes
control /ector control, with	N
sensor Encoderless torque	o Yes
control Forque control, with	N
encoder	0
Comm	unication
Communicati	PROFINET,

Connections		
Signal cable		
	0.45 4.50 3	
Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)	
Line side		
Version	screw-type terminal	
Conductor cross-section	1.50 6.00 mm² (AWG 16 AWG 10)	
Motor end		
Version	Screw-type terminals	
Conductor cross-section	1.50 6.00 mm² (AWG 16 AWG 10)	
DC link (for braking resistor)		
PE connection	On housing with M4 screw	
Max. motor cable length		
Shielded	150 m (492.13 ft)	
Converter losses to IEC61800-9-2*		
Efficiency class	IE2	
•		
Comparison with the reference converter (90% / 100%)	35.7 %	



The percentage values show the losses in relation to the rated apparent power of the

The diagram shows the losses for the points (as per standard IEC61800-tha) relative torque generating current (I) over the relative โพลงและสินใช้). The values are valid for the basic version of the

nts. *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	

on

EtherNet/IP

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.