

Article No.: 6SL3220

6SL3220-2YE28-0UF0

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

Item no.:

der no. :

Rated data

_		
Input		
Number of phases	3 AC	
Line voltage	380 480 V +1	0 % -20 %
Line frequency	47 63 Hz	
Rated voltage	400V IEC	480V NEC
Rated current (LO)	29.50 A	26.00 A
Rated current (HO)	24.50 A	21.30 A

Output

N	lumber of phases	3 AC	
	aber er priaece	07.0	
R	ated voltage	400V IEC	480V NEC ₁₎
_	Rated power (LO)	15.00 kW	20.00 hp
	Rated power (HO)	11.00 kW	15.00 hp
	Rated current (LO)	32.00 A	27.00 A
	Rated current (HO)	26.00 A	21.00 A
	Rated current (IN)	33.00 A	
	Max. output current	43.00 A	
Puls	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	0.70 0.85
Offset factor cos φ	0.96
Efficiency η	0.98
Sound pressure level (1m)	67 dB
Power loss ₃₎	0.438 kW
Filter class (integrated)	Unfiltered
EMC category (with accessories)	without



Figure simil:

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	0.018 m³/s (0.653 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	FSC
Net weight	7.14 kg (15.74 lb)
Dimensions	
Width	140 mm (5.51 in)
Height	295 mm (11.61 in)
Depth	218 mm (8.58 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 Analog / digital inputs	
Number	2 (Differential input)
Resolution	10 bit
witching threshold as digital input	
0 → 1	4 V
1 → 0	1.6 V
nalog outputs	
Number	1 (Non-isolated output)
TC/ KTY interface	
1 motor temperature sensor input, sen and Thermo-Click, accuracy ±5 °C	sors that can be connected: PTC, KTY

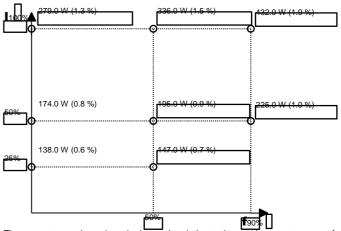
Classed loop control to shuimung
Closed-loop control techniques

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	Yes
Torque control, with encoder	No

Communication		
0	DDOEINET E4N/ID	
Communication	PROFINE L EMPINEME	

Connections		
Signal cable		
Signal Cable		
Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)	
Line side		
Version	screw-type terminal	
Conductor cross-section	1.50 16.00 mm² (AWG 16 AWG 6)	
Motor end		
Version	Screw-type terminals	
Conductor cross-section	1.50 16.00 mm² (AWG 16 AWG 6)	
DC link (for braking resistor)		
PE connection	On housing with M4 screw	
Max. motor cable length		
Shielded	150 m (492.13 ft)	
Unshielded	300 m (984.25 ft)	

Converter losses to IEC61800-9-2*		
Efficiency class	IE2	
Comparison with the reference converter (90% / 100%)	38.6 %	



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, monochrome	Ambient temperature	
		Operation	0 50 °C (32 122 °F)
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	0.140 kg (0.31 lb)	Relative humidity at 25°C d	lurina
Dimensions		Max. operation	95 %
Width	70.00 mm (2.76 in)	iviax. operation	95 %
Height	106.85 mm (4.21 in)	Approvals	
Depth	19.60 mm (0.77 in)	Certificate of suitability	CE, cULus, EAC, KCC, RCM