

Article No.: 6SL3220-2YE32-0UF0

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

Item no.:

Rated data

_			
L			
Ti	nput		
	Number of phases	3 AC	
	Line voltage	380 480 V +10 %	s -20 %
	Line frequency	47 63 Hz	
	Rated voltage	400V IEC	480V NEC
	nateu voitage	400V ILC	7007 1126
	Rated current (LO)	42.00 A	37.00 A
	Rated current (HO)	38.00 A	35.00 A

Output

Number of phases		3 AC		
Rated voltage		400V IEC	480V NEC ₁₎	
_	Rated power (LO)	22.00 kW	30.00 hp	
	Rated power (HO)	18.50 kW	25.00 hp	
	Rated current (LO)	45.00 A	40.00 A	
	Rated current (HO)	38.00 A	34.00 A	
	Rated current (IN)	47.00 A		
	Max. output current	61.00 A		
Puls	se frequency	4 kHz		
Output frequency for vector control		0 200 Hz		
Output 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₎	0.732 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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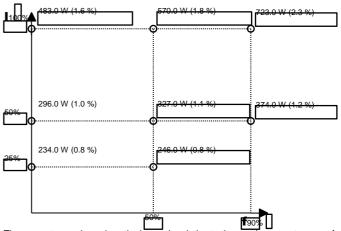
Inputs / outputs		
Switching level: 0 → 1	11 V	
Switching level: 1 → 0	5 V	
Max. inrush current	15 mA	
ail-safe digital inputs		
Number Digital outputs		
Number as relay changeover contact 2Output (resistive load)	DC 30 V, 5.0 A	
Number as transistor Analog / digital inputs	2000 1,000 1.	
Number	2 (Differential 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	

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 E4N4/ID	
Communication	PROFINE L EMPINEME	

Connections Signal cable		
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%)	47.6 %	



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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Operator panel: Basic Operator Panel (BOP-2)				
Screen		Aı	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 du		
Dimensions				
Width	70.00 mm (2.76 in)	Max. 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	