

Article No.: 6SL3220-3YE36-0UF0

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

Item no.:

Rated data

Input		
Number of phases	3 AC	
Line voltage	380 480 V +1	10 % -20 %
Line frequency	47 63 Hz	
Rated voltage	400V IEC	480V NEC
Rated current (LO)	70.00 A	61.00 A
Rated current (HO)	62.00 A	54.00 A

Output

N	lumber of phases	3 AC	
R	ated voltage	400V IEC	480V NEC ₁₎
_	Rated power (LO)	37.00 kW	50.00 hp
	Rated power (HO)	30.00 kW	40.00 hp
	Rated current (LO)	75.00 A	65.00 A
	Rated current (HO)	60.00 A	52.00 A
	Rated current (IN)	77.00 A	
	Max. output current	102.00 A	
Puls	se frequency	4 kHz	
Out	put frequency for vector control	0 200 Hz	
	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₎	1.110 kW	
Filter class (integrated)	Unfiltered	
EMC category (with accessories)	without	



Consignment no. : Project :

Amb	pient 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	echanical data
Degree of protection	IP20 / UL open type
Size	FSD
Net weight	19 kg (41.89 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		
Standard 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 lasts control t	a a b mi a u a a
Closed-loop control t	ecimiques

-	-
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

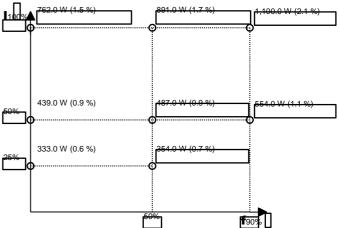
Communication		
0	DDOEINET E4N/ID	
Communication	PROFINE L EMPINEI/IP	

Connections		
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 mm² (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	

Converter losse	s to IEC61800-9-2*
Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	44.4 %

200 m (656.17 ft)

300 m (984.25 ft)



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

Max. motor cable length

Shielded

Unshielded

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 ki	
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 do	,	
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	