

**Article No.:** 

6SL3220-2YE10-0UF0

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	
· ·		
Rated voltage	400V IEC	480V NEC
Rated current (LO)	2.10 A	2.00 A
Rated current (HO)	1.70 A	1.60 A
, ,		

## Output

Number of phases		3 AC		
rumber of phases		37.0		
R	ated voltage	400V IEC	480V NEC <sub>1)</sub>	
_	Rated power (LO)	0.75 kW	1.00 hp	
	Rated power (HO)	0.55 kW	0.75 hp	
	Rated current (LO)	2.20 A	2.10 A	
	Rated current (HO)	1.70 A	1.60 A	
	Rated current (IN)	2.30 A		
	Max. output current	2.70 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	0.70 0.85	
Offset factor cos φ	0.96	
Efficiency η	0.96	
Sound pressure level (1m)	55 dB	
Power loss <sub>3)</sub>	0.043 kW	
Filter class (integrated)	Unfiltered	
EMC category (with accessories)	without	



Consignment no. : Project :

Depth

Amb	pient conditions
Standard board coating type	Class 3C2, according to IEC 60721-3-3
Cooling	Air cooling using an integrated fan
Cooling air requirement	0.005 m³/s (0.177 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	FSA
Net weight	3.2 kg (7.05 lb)
Dimensions	
Width	73 mm (2.87 in)

218 mm (8.58 in)



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Inputs ,	<del>/ outputs</del>
tandard digital inputs	
Number	0
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 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
Analog outputs	
Number	1 (Non-isolated output)
PTC/ KTY interface	

 Closed-loop control techniques	

1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy ±5 °C

a	
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

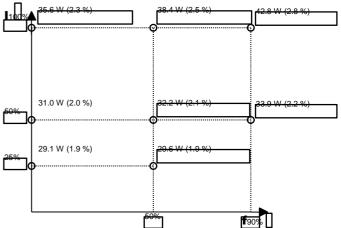
Communication		-
Communication	PROFINET EtherNet/IP	

Connections		
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 2.50 mm² (AWG 16 AWG 14)	
Motor end		
Version	Screw-type terminals	
Conductor cross-section	1.50 2.50 mm² (AWG 16 AWG 14)	
DC link (for braking resistor)		

Shielded	150 m (492.13 ft)	
Unshielded	300 m (984.25 ft)	
	4	
Converter losses to IEC61800-9-2*		

On housing with M4 screw

Efficiency class	<del>IE2</del>
Comparison with the reference converter (90% / 100%)	29.5 %



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

PE connection

Max. motor cable length

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	

<sup>1)</sup> The output current and HP ratings are valid for the voltage range 440V-480V

<sup>3)</sup> 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		An	Ambient conditions	
Display design	LCD, monochrome	Ambient temperature		
	<b></b>	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)	· ·	,	
Dimensions		Relative humidity at 25°C du	-	
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	