

Article No.: 6SL3220-2YE26-1UF0

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

	Rated data				
Input					
١	Number of phases	3 AC			
L	ine voltage	380 480 V +10 %	-20 %		
L	ine frequency	47 63 Hz			
F	Rated voltage	400V IEC	480V NEC		
	Rated current (LO)	24.50 A	21.30 A		
	Rated current (HO)	18.25 A	14.00 A		
Output					
١	Number of phases	3 AC			
F	Rated voltage	400V IEC	480V NEC 1)		
	Rated power (LO)	11.00 kW	15.00 hp		
	Rated power (HO)	7.50 kW	10.00 hp		
	Rated current (LO)	26.00 A	21.00 A		
	Rated current (HO)	18.00 A	14.00 A		
	Rated current (IN)	27.00 A			
	Max. output current	35.00 A			
Pul	se frequency	4 kHz			
Ou	tput frequency for vector control	0 200 Hz			
Ou	tput frequency for V/f control	0 550 Hz			
Ov	erload 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

specifications
0.70 0.85
0.96
0.98
67 dB
0.344 kW
Unfiltered
without
without SIRIUS device (e.g. via S7- 1500F)

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Commu	ınıca	ition

Communication PROFINET, EtherNet/IP



Item no. : Consignment no. : Project :

Inputs	outputs		
Standard digital inputs			
Number	6		
Switching level: $0 \rightarrow 1$	11 V		
Switching level: $1 \rightarrow 0$	5 V		
Max. inrush current	15 mA		
Fail-safe digital inputs			
Number	1		
Digital outputs			
Number as relay changeover contact	2		
Output (resistive load)	DC 30 V, 5.0 A		
Number as transistor	0		
Analog / digital inputs			
Number	2 (Differential input)		
Resolution	10 bit		
Switching threshold as digital input			
0 → 1	4 V		
1 → 0	1.6 V		
Analog outputs			
Number	1 (Non-isolated output)		

PTC/ KTY interface

1 motor temperature sensor input, sensors that can be connected PTC, KTY and Thermo-Click, accuracy $\pm 5\,^{\circ}\text{C}$

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	No		
Torque control, with encoder	No		

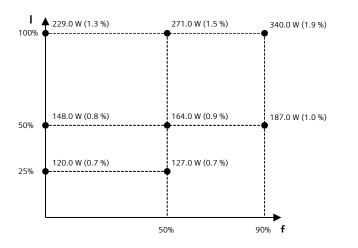


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Ambient conditions			
Standard board coating type	Class 3C2, according to IEC 60721-3-3: 2002		
Cooling	Air cooling using an integrated fan		
Cooling air requirement	0.018 m³/s (0.653 ft³/s)		
Installation altitude	1,000 m (3,280.84 ft)		
Ambient temperature			
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		
Conn	ections		
Signal cable			
Conductor cross-section	0.15 1.50 mm ² (AWG 24 AWG 16)		
Line side			
Version	screw-type terminal		
Conductor cross-section	1.50 16.00 mm ² (AWG 16 AWG 6)		
Motor end			
Version	Screw-type terminals		
Conductor cross-section	1.50 16.00 mm ² (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)		

Mech	nanical data		
Degree of protection	IP20 / UL open type		
Frame 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)		
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		

Converter losses to IEC61800-9-2*		
Efficiency class	IE2	
Comparison with the reference converter (90% / 100%)	36.4 %	



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.

*calculated values

 $^{^{1)}\}mbox{The}$ 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 Display design LCD, monochrome Mechanical data	
Mechanical data	
	Ambient temperature
	Operation
Degree of protection IP55 / UL type 12	Storage
Net weight 0.140 kg (0.31 lb)	·
Transport et weight 0.140 kg (0.31 lb) imensions Max. operation	
Width 70.00 mm (2.76 in)	Max. operation
Height 106.85 mm (4.21 in)	
Depth 19.60 mm (0.77 in)	Certificate of suitability

Ambient conditions			
Ambient temperature			
Operation	0 50 °C (32 122 °F)		
Storage	-40 70 °C (-40 158 °F)		
Transport	-40 70 °C (-40 158 °F)		
Relative humidity at 25°C during			
Max. operation	95 %		
Approvals			
Certificate of suitability CE, cULus, EAC, KCC, RCM			



Output current

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	I/O Exter			nsion Mod	ule
Г	II	nputs /	outputs		
1	Digital inputs			Dime	ensio
	Number of digital inputs 1)		2	Wid	lth
	Conductor cross-section		0.5 1.5 mm² (AWG 21 AWG 16) Alternatively 2 x 0.5 mm²	Hei Der	ght
	Input voltage (0→1)		11 V		
	Input voltage (1→0)		5 V		: digit mA)
	Input voltage, max.		30 V	²⁾ The	max. es bet
ı	Digital outputs				nalog option
	Number of digital outputs		4	⁴⁾ Swi	tchabl
	Conductor cross-section		1.5 mm² (AWG 16)		
	Output current 2)		2 A		
,	Analog inputs				
	Number of analog inputs 3)		2		
	Conductor cross-section		0.5 1.5 mm² (AWG 21 AWG 16) alternatively 2*0.5 mm²		
	Current		0 20 mA		
,	Analog outputs				
	Number of analog outputs		2		
	Type of analog outputs 4)		Non-isolated output		
	Conductor cross-section		0.5 1.5 mm² (AWG 21 AWG 16) Alternatively 2 x 0.5 mm²		
	Output voltage		0 10 V		

0 ... 20 mA

Mechanical data		
Dimensions		
Width	71 mm (2.80 in)	
Height	117 mm (4.61 in)	
Depth	27 mm (1.06 in)	

 $^{^{1)}\}mbox{DI}$ 6: digital input; DI 7: P or M switch; DI COM: Input for Control Unit interface (24 V out, max. 250 mA)

⁴⁾Switchable between voltage (0 ... 10 V) and current (0 ... 20 mA) using a parameter

 $^{^{2)}} The \ max$, current depends on the temperature and the size of the connected converted. It varies between 2 A and 3 A at 30 V DC.

 $^{^{3)}2}$ analog inputs for the connection of Pt1000/Ni1000 temperature sensors. One of which can be optionally used as analog input.