

MLFB-Ordering data

6SL3210-1KE17-5UF1



Figure similar

Client order no. :
Order no. :
Offer no. :
Pomarke :

Item no. :
Consignment no. :
Project :

Remarks :				
Rated da	ata	General teo	ch. specifica	ations
Input		Power factor λ	0.7	D 0.85
Number of phases	3 AC	Offset factor cos φ	0.9	5
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.9	7
Line frequency	47 63 Hz	Sound pressure level (1m)	52 (JB
Rated current (LO)	9.50 A	Power loss	0.1	4 kW
Rated current (HO)	8.20 A	Ambiou	nt conditior	
Output		Andrei		15
Number of phases	3 AC	Cooling	Air cooling	using an integrated fan
Rated voltage	400 V			
Rated power IEC 400V (LO)	3.00 kW	Cooling air requirement	0.005 m³/s	s (0.177 ft³/s)
Rated power NEC 480V (LO)	4.00 hp	Installation altitude	1000 m (3	280.84 ft)
Rated power IEC 400V (HO)	2.20 kW	Ambient temperature		
Rated power NEC 480V (HO)	3.00 hp	Operation	-10 40 °	C (14 104 °F)
Rated current (IN)	7.50 A	Transport	-40 70 °	C (-40 158 °F)
Rated current (LO)	7.30 A	Storage	-40 70 °	C (-40 158 °F)
Rated current (HO)	5.60 A	Relative humidity		
	11.20 A			°C (104 °F), condensation
Max. output current		Max. operation	and icing i	not permissible
Pulse frequency	4.000 kHz			•
Output frequency for vector control	0 240 Hz	Closed-loop	control tech	iniques
Output froquency for \//f control	0 550 Hz	V/f linear / square-law / parame	eterizable	Yes
Output frequency for V/f control	U 33U HZ	V/f with flux current control (Fo	CC)	Yes

Overload capability

Low Overload (LO)

150 % base load current IL for 3 s, followed by 110 % base load current IL for 57 s in a 300 s cycle time

High Overload (HO)

200 % base load current IH for 3 s, followed by 150 % base load current IH for 57 s in a 300 s cycle time

Communication

V/f ECO linear / square-law

Sensorless vector control

Vector control, with sensor

Encoderless torque control

Torque control, with encoder

PROFINET / EtherNet/IP

Yes

Yes

No

No

No



MLFB-Ordering data

6SL3210-1KE17-5UF1



Figure similar

Mechanical	data]	Co
Degree of protection	IP20 / UL open type	Sigr	nal cable
Size	FSA	-	or cross-section
Net weight	1.70 kg (3.75 lb)	Line side	
Width	73 mm (2.87 in)	Version	
Height	196 mm (7.72 in)	Conductor cross-sec	tion
Depth	225 mm (8.86 in)	Motor end	
Inputs / outputs		Version	
tandard digital inputs		Conductor cross-section	
Number	6	DC link (for braking resi	stor
Switching level: 0→1	11 V	Version	
Switching level: 1→0	5 V	Conductor cross-section	
Max. inrush current	15 mA	Line length, max.	
ail-safe digital inputs		PE connection	
Number	1	Max. motor cable length	
vigital outputs		Shielded	
Number as relay changeover contact	1	Unshielded	
Output (resistive load)	DC 30 V, 0.5 A		S
Number as transistor	1	Compliance with standards	5
Output (resistive load)	DC 30 V, 0.5 A		
Analog / digital inputs		CE marking	
Number	1 (Differential input)		
Resolution	10 bit		
witching threshold as digital inp	ut		
0→1	4 V		
1→0	1.6 V		
Analog outputs			
Number	1 (Non-isolated output)		
PTC/ KTY interface			
1 motor temperature sensor input, sensor and Thermo-Click, accuracy ±5 °C	s that can be connected: PTC, KTY		



MLFB-Ordering data

6SL3210-1KE17-5UF1



Figure similar

Converter losses to EN 50598-2* Efficiency class IE2 Comparison with the reference converter (90% / -69.05 % 100%) -**O**-^{105.0 W (2.08 %)} 80.0 W (1.58 %) 90.0 W (1.77 %) 100% 61.0 W (1.20 %) 65.0 W (1.28 %) 71.0 W (1.40 %) 50% 53.0 W (1.04 %) 55 W (1.08 %) 25% f 50% 90%

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 EN 50598) 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