

MLFB-Ordering data

6SL3210-1KE15-8AF2



Figure similar

Client order no. : Order no. : Offer no. : Remarks : Item no. :
Consignment no. :
Project :

nput Number of phases	
Number of phases	
	3 AC
Line voltage	380 480 V +10 % -20 %
Line frequency	47 63 Hz
Rated current (LO)	7.40 A
Rated current (HO)	6.00 A
Dutput	
Number of phases	3 AC
Rated voltage	400 V
Rated power IEC 400V (LO)	2.20 kW
Rated power NEC 480V (LO)	3.00 hp
Rated power IEC 400V (HO)	1.50 kW
Rated power NEC 480V (HO)	2.00 hp
Rated current (IN)	5.80 A
Rated current (LO)	5.60 A
Rated current (HO)	4.10 A
Max. output current	8.20 A
Pulse frequency	4.000 kHz
Output frequency for vector control	0 240 Hz
Output frequency for V/f control	0 550 Hz

Overload ca	apability
-------------	-----------

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

General tech. specifications			
Power factor λ	0.70 0.85		
Offset factor cos φ	0.95		
Efficiency η	0.97		
Sound pressure level (1m)	49 dB		
Power loss	0.08 kW		
Filter class (integrated)	Class A		

Ambient conditions			
Cooling	Air cooling using an integrated fan		
Cooling air requirement	0.005 m³/s (0.177 ft³/s)		
Installation altitude	1000 m (3280.84 ft)		
Ambient temperature			
Operation	-10 40 °C (14 104 °F)		
Transport	-40 70 °C (-40 158 °F)		
Storage	-40 70 °C (-40 158 °F)		
Relative humidity			

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			



MLFB-Ordering data

6SL3210-1KE15-8AF2



Mechanica	l data	Communication		
ree of protection	IP20 / UL open type	Communication	PROFINET / Eth	
re	FSAA	Connections		
et weight	1.40 kg (3.09 lb)	Signal cable		
dth	73 mm (2.87 in)	Conductor cross-section	0.15 1.50 m	
ght	173 mm (6.81 in)	Line side		
oth	178 mm (7.01 in)	Version	Plug-in screw	
Inputs / ou	tputs	Conductor cross-section	1.00 2.50 r	
ndard digital inputs		Motor end		
nber	6	Version	Plug-in screw	
tching level: 0→1	11 V	Conductor cross-section	1.00 2.50 r	
itching level: 1→0	5 V	DC link (for braking resistor))	
c. inrush current	15 mA	Version	Plug-in screw	
safe digital inputs		Conductor cross-section	1.00 2.50 r	
mber	1			
tal outputs		Line length, max.	15 m (49.21	
mber as relay changeover contact	1	PE connection Max. motor cable length	On housing w	
put (resistive load)	DC 30 V, 0.5 A	Shielded	50 m (164.04	
ımber as transistor	1	Unshielded	100 m (328.0	
tput (resistive load)	DC 30 V, 0.5 A	S	tandards	
og / digital inputs		Compliance with standards	UL, cUL, CE, C-	
ber	1 (Differential input)			
lution	10 bit	CE marking	EMC Directive Directive 200	
ching threshold as digital in	put			
	4 V			
0	1.6 V			
log outputs				
per	1 (Non-isolated output)			
	,			

PTC/ KTY interface

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



MLFB-Ordering data

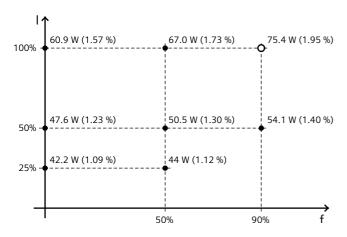
6SL3210-1KE15-8AF2



Figure similar

Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-70.81 %



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