



Figure similar

MLFB-Ordering data

6SL3210-1KE15-8UF2

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Rated data		General tech. specifications	
Input		Power factor λ	0.70 ... 0.85
Number of phases	3 AC	Offset factor $\cos \phi$	0.95
Line voltage	380 ... 480 V +10 % -20 %	Efficiency η	0.97
Line frequency	47 ... 63 Hz	Sound pressure level (1m)	49 dB
Rated current (LO)	7.40 A	Power loss	0.07 kW
Rated current (HO)	6.00 A	Filter class (integrated)	Unfiltered
Output		Ambient conditions	
Number of phases	3 AC	Cooling	Air cooling using an integrated fan
Rated voltage	400 V	Cooling air requirement	0.005 m ³ /s (0.177 ft ³ /s)
Rated power IEC 400V (LO)	2.20 kW	Installation altitude	1000 m (3280.84 ft)
Rated power NEC 480V (LO)	3.00 hp	Ambient temperature	
Rated power IEC 400V (HO)	1.50 kW	Operation	-10 ... 40 °C (14 ... 104 °F)
Rated power NEC 480V (HO)	2.00 hp	Transport	-40 ... 70 °C (-40 ... 158 °F)
Rated current (LO)	5.60 A	Storage	-40 ... 70 °C (-40 ... 158 °F)
Rated current (HO)	4.10 A	Relative humidity	
Rated current (IN)	5.80 A	Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible
Max. output current	8.20 A	Closed-loop control techniques	
Pulse frequency	4 kHz	V/f linear / square-law / parameterizable	Yes
Output frequency for vector control	0 ... 240 Hz	V/f with flux current control (FCC)	Yes
Output frequency for V/f control	0 ... 550 Hz	V/f ECO linear / square-law	Yes
Overload capability		Sensorless vector control	Yes
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	Vector control, with sensor	No
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	Encoderless torque control	No
		Torque control, with encoder	No



Figure similar

MLFB-Ordering data

6SL3210-1KE15-8UF2

Mechanical data

Degree of protection	IP20 / UL open type
Size	F5AA
Net weight	1.40 kg (3.09 lb)
Width	73 mm (2.87 in)
Height	173 mm (6.81 in)
Depth	160 mm (6.30 in)

Inputs / outputs

Standard digital inputs

Number	6
Switching level: 0→1	11 V
Switching level: 1→0	5 V
Max. inrush current	15 mA

Fail-safe digital inputs

Number	1
--------	---

Digital outputs

Number as relay changeover contact	1
Output (resistive load)	DC 30 V, 0.5 A
Number as transistor	1
Output (resistive load)	DC 30 V, 0.5 A

Analog / digital inputs

Number	1 (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 ± 5 °C

Communication

Communication	PROFINET, EtherNet/IP
---------------	-----------------------

Connections

Signal cable

Conductor cross-section	0.15 ... 1.50 mm ² (AWG 24 ... AWG 16)
-------------------------	---

Line side

Version	Plug-in screw terminals
---------	-------------------------

Conductor cross-section	1.00 ... 2.50 mm ² (AWG 18 ... AWG 14)
-------------------------	---

Motor end

Version	Plug-in screw terminals
---------	-------------------------

Conductor cross-section	1.00 ... 2.50 mm ² (AWG 18 ... AWG 14)
-------------------------	---

DC link (for braking resistor)

Version	Plug-in screw terminals
---------	-------------------------

Conductor cross-section	1.00 ... 2.50 mm ² (AWG 18 ... AWG 14)
-------------------------	---

Line length, max.	15 m (49.21 ft)
-------------------	-----------------

PE connection	On housing with M4 screw
---------------	--------------------------

Max. motor cable length

Shielded	50 m (164.04 ft)
----------	------------------

Unshielded	100 m (328.08 ft)
------------	-------------------

Standards

Compliance with standards	UL, cUL, CE, C-Tick (RCM)
---------------------------	---------------------------

CE marking	EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC
------------	---



Figure similar

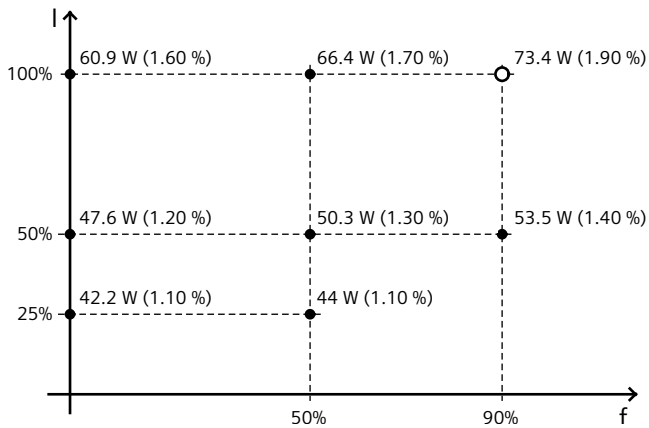
MLFB-Ordering data

6SL3210-1KE15-8UF2

Converter losses to IEC61800-9-2*

Efficiency class IE2

Comparison with the reference converter (90% / 100%) 28.20 %



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