

# **MLFB-Ordering data**

6SL3210-1KE23-2UF1



Figure similar

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

ltem no. :
Consignment no. :
Project :

Rated data		General tech. specifications		
nput		Power factor λ	0.7	′0 0.85
Number of phases	3 AC	Offset factor cos φ	0.9	
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.9	
Line frequency	47 63 Hz		66	
Rated current (LO)	40.60 A	Sound pressure level (1m) Power loss		
Rated current (HO)	36.40 A		0.43 kW	
utput		Ambient conditions		
Number of phases	3 AC	Cooling	Air coolin	g using an integrated far
Rated voltage	400 V			
Rated power IEC 400V (LO)	15.00 kW	Cooling air requirement0.018 m³/s (0.636 ft³/s)		· ·
Rated power NEC 480V (LO)	20.00 hp	Installation altitude	1000 m (	3280.84 ft)
Rated power IEC 400V (HO)	11.00 kW	Ambient temperature		
Rated power NEC 480V (HO)	15.00 hp	Operation		°C (14 104 °F)
Rated current (IN)	32.00 A	Transport		°C (-40 158 °F)
Rated current (LO)	31.00 A	Storage	-40 70	°C (-40 158 °F)
Rated current (HO)	25.00 A	Relative humidity		
Max. output current	50.00 A	95 % At 40 °C (104 °F), cond Max. operation and icing not permissible		
Pulse frequency	4.000 kHz			
Output frequency for vector control	0 240 Hz	Closed-loop control techniques		
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / paramet	erizable	Yes
		V/f with flux current control (FC	C)	Yes
		V/f ECO linear / square-law		Yes
Overload capability		Sensorless vector control		Yes
Low Overload (LO)		Vector control, with sensor		No
150 % base load current IL for 3 s, followed by 110 % base load current IL for 57 s in a 300 s cycle time		Encoderless torque control		No
High Overload (HO)		Torque control, with encoder		No
High Overload (HO)				

#### 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

Communication



### **MLFB-Ordering data**

Size

Width

Height

Depth

Number

Number

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**Mechanical data** Connections Degree of protection IP20 / UL open type Signal cable FSC Conductor cross-section 0.15 ... 1.50 mm<sup>2</sup> (AWG 24 ... AWG 16) Line side Net weight 4.40 kg (9.70 lb) 140 mm (5.51 in) Version Plug-in screw terminals 6.00 ... 16.00 mm<sup>2</sup> (AWG 10 ... AWG 6) 295 mm (11.61 in) Conductor cross-section Motor end 225 mm (8.86 in) Inputs / outputs Version Plug-in screw terminals **Standard digital inputs** Conductor cross-section 6.00 ... 16.00 mm<sup>2</sup> (AWG 10 ... AWG 6) 6 DC link (for braking resistor) Switching level: 0→1 11 V Version Plug-in screw terminals Switching level: 1→0 5 V 6.00 ... 16.00 mm<sup>2</sup> (AWG 10 ... AWG 6) **Conductor cross-section** Max. inrush current 15 mA Line length, max. 15 m (49.21 ft) Fail-safe digital inputs **PE** connection On housing with M4 screw 1 Max. motor cable length **Digital outputs** Shielded 150 m (492.13 ft) Number as relay changeover contact 1 Unshielded 150 m (492.13 ft) **Standards** Output (resistive load) DC 30 V, 0.5 A Number as transistor Compliance with standards UL, cUL, CE, C-Tick (RCM) Output (resistive load) DC 30 V, 0.5 A EMC Directive 2004/108/EC, Low-Voltage **CE** marking Analog / digital inputs Directive 2006/95/EC 1 (Differential input) Resolution 10 bit Switching threshold as digital input 4 V

•			
Ana	log	outputs	

Number

Number

0→1

1→0

1 (Non-isolated output)

1.6 V

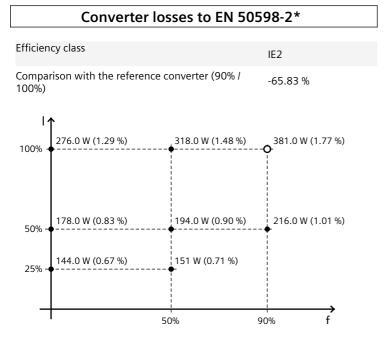
## PTC/ KTY interface

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



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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

