

# **MLFB-Ordering data**

6SL3220-1YE32-0UF0



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated data			General tech	General tech. specifications		
nput			Power factor $\lambda$	0.90 0.95		
Number of phases	3 AC		Offset factor cos φ	0.99		
Line voltage	380 480 V +10 % -20 %		Efficiency η	0.98		
Line frequency	47 63 Hz		Sound pressure level (1m)	70 dB		
Rated voltage	400V IEC	480V NEC	Power loss	0.680 kW		
Rated current (LO)	44.00 A	37.00 A	Filter class (integrated)	Unfiltered		
Rated current (HO)	38.00 A	35.00 A				
utput			EMC category (with accessories)	without		
Number of phases	3 AC					
Rated voltage	400V IEC	480V NEC	Ambient	conditions		
Rated power (LO)	22.00 kW	30.00 hp	Standard board coating type	Class 3C2, according to IEC 3: 2002		
Rated power (HO)	18.50 kW	20.00 hp				
Rated current (LO)	45.00 A	40.00 A	Cooling	Air cooling using an integra		
Rated current (HO)	38.00 A	34.00 A				
Rated current (IN)	47.00 A		Cooling air requirement	0.055 m³/s (1.942 ft³/s)		
Max. output current	61.00 A		Installation altitude	1000 m (3280.84 ft)		
Pulse frequency	4 kHz		Ambient temperature			
Output frequency for vector control	0 200 Hz		Operation	-20 45 °C (-4 113 °F)		
			Transport	-40 70 °C (-40 158 °F)		
Output frequency for V/f control	0 550 Hz		Storage	-25 55 °C (-13 131 °F)		
			Relative humidity			
			May exerction	95 % At 40 °C (104 °F), con		

### **Overload 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

Max. operation

and icing not permissible



## **MLFB-Ordering data**

6SL3220-1YE32-0UF0



Mechanical data		Closed-loop co	ntrol techniques		
Degree of protection	IP20 / UL open type				
Size	FSD	V/f linear / square-law / parameter	izable Yes	Yes	
Net weight	17 kg (37.48 lb)	V/f with flux current control (FCC)	Yes		
Width	200 mm (7.87 in)	V/f ECO linear / square-law	Yes		
Height	472 mm (18.58 in)	Sensorless vector control	Yes		
Depth	248 mm (9.76 in)	Vector control, with sensor	No		
Inputs / outputs		Encoderless torque control	Yes		
Standard digital inputs	-	Torque control, with encoder	No		
Number	6				
Switching level: 0→1	11 V	Communication			
Switching level: 1→0	5 V	Communication	PROFINET, EtherNet/IP		
Max. inrush current	15 mA	Connections			
Fail-safe digital inputs	13 1111	Signal cable			
Number	1	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)		
Digital outputs		Line side			
Number as relay changeover contact	2	Version	screw-type terminal		
Output (resistive load)	DC 30 V, 5.0 A	Conductor cross-section	10.00 35.00 mm² (AWG 8 AWG 2)		
Number as transistor	0	Motor end			
Analog / digital inputs		Version	Screw-type terminals		
Number	2 (Differential input)	Conductor cross-section 10.00 35.00 mm² (AWG 8 AWG 2)			
Resolution	10 bit	DC link (for braking resistor)	(AWG 8 AWG 2)		
Switching threshold as digital input					
0→1	4 V	PE connection	Screw-type terminals		
1→0	1.6 V	Max. motor cable length			
Analog outputs		Shielded	200 m (656.17 ft)		
		Unshielded	300 m (984.25 ft)		
Number	1 (Non-isolated output)				
PTC/ KTY interface					

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

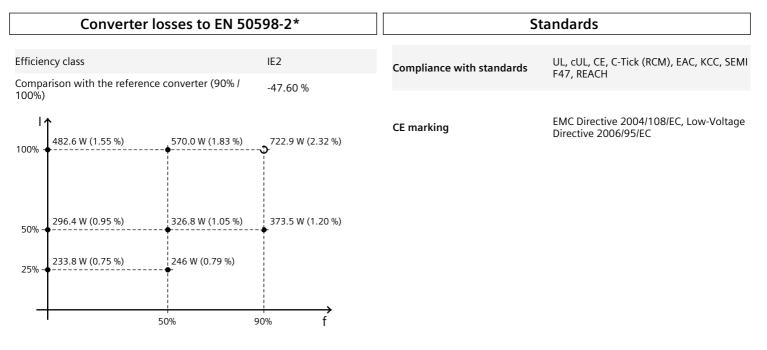


## **MLFB-Ordering data**

#### 6SL3220-1YE32-0UF0



Figure similar



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