

# **MLFB-Ordering data**

6SL3220-3YE54-0AF0



Figure similar

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

ltem no. :
Consignment no. :
Project :

Rated data			General tech	General tech. specifications		
nput			Power factor λ	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)	74 dB		
Rated voltage	400V IEC	480V NEC	Power loss	6.180 kW		
Rated current (LO)	482.00 A	471.00 A	Filter class (integrated)	RFI suppression filter for Category C2		
Rated current (HO) Dutput	400.00 A	392.00 A	EMC category (with accessories)	Category C2		
Number of phases Rated voltage	3 AC 400V IEC	480V NEC	Ambient conditions			
Rated power (LO)	250.00 kW	400.00 hp	Standard board coating type	Class 3C2, according to IEC 60721 3: 2002		
Rated power (HO)	200.00 kW	250.00 hp				
Rated current (LO)	477.00 A	477.00 A	Cooling	Air cooling using an integrated fan		
Rated current (HO)	370.00 A	361.00 A				
Rated current (IN)	488.00 A		Cooling air requirement	0.210 m³/s (7.416 ft³/s)		
Max. output current	644.00 A		Installation altitude	1000 m (3280.84 ft)		
Pulse frequency	2 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			
			Max operation	95 % At 40 ℃ (104 °F), condensat		

### **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**

6SL3220-3YE54-0AF0



NAL				Figure sim	
Mechanical data		Closed-loop control techniques			
Degree of protection	IP20 / UL open type	V/f linear / square-law / parameter	r <b>izable</b> Yes	Yes	
Size	FSG	V/f with flux current control (FCC)	Yas	Yes	
Net weight	120 kg (264.56 lb)	V/f ECO linear / square-law	Yes		
Width	305 mm (12.01 in)	Sensorless vector control	Yes		
Height	999 mm (39.33 in)	Vector control, with sensor	No		
Depth	369 mm (14.53 in)		Yes		
Inputs / outputs		Encoderless torque control	Tes		
Standard digital inputs		Torque control, with encoder	No		
Number	6	Communication			
Switching level: 0→1	11 V				
Switching level: 1→0	5 V	-			
Max. inrush current	15 mA	Connections			
ail-safe digital inputs		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	M10 screw		
Output (resistive load)	DC 30 V, 5.0 A	Conductor cross-section	35.00 185.00 mm² (AWG 1 MCM 2 x 350)		
Number as transistor	0	Motor end			
Analog / digital inputs		Version	M10 screw		
Number	2 (Differential input)	Conductor cross-section	35.00 185.00 mm² (AWG 1 MCM 2 x 350)		
Resolution	10 bit	DC link (for braking resistor)			
Switching threshold as digital input		PE connection	M10 screw		
0→1	4 V	Max. motor cable length			
1→0	1.6 V	Shielded	150 m (492.13 ft)		
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  $\pm 5~^\circ\mathrm{C}$ 

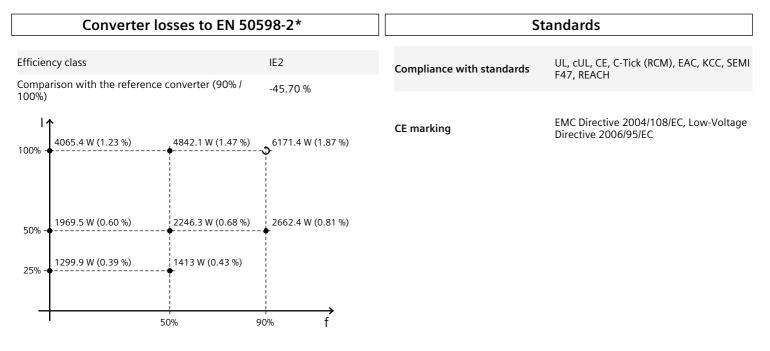


### **MLFB-Ordering data**

### 6SL3220-3YE54-0AF0



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

# **Operator panel: Intelligent Operator Panel (IOP-2)**

Screen		Ambient conditions		
Display design	LCD colors	Ambient temperature durin	Ambient temperature during	
Screen resolution	320 x 240 Pixel	Operation	0 50 ℃ (32 122 °F) 55 ℃ only with door mounting kit	
Mechanical data		Storage	-40 70 °C (-40 158 °F)	
Degree of protection	IP55 / UL type 12	Transport	-40 70 °C (-40 158 °F)	
Net weight	0.13 kg (0.30 lb)	Relative humidity at 25°C d	luring	
Width	70.0 mm (2.76 in)	Max. operation	95 %	
Height	106.85 mm (4.21 in)			
Depth	19.65 mm (0.77 in)	Certificate of suitability	Approvals CE, cULus, EAC, KCC, RCM	