



Figure similar

MLFB-Ordering data

6SL3220-3YE40-0AF0

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Rated data			General tech. specifications	
Input			Power factor λ 0.90 ... 0.95	
Number of phases	3 AC		Offset factor $\cos \varphi$ 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 loss1.550 kW	
Rated current (LO)	107.00 A	91.00 A	Filter class (integrated)RFI suppression filter for Category C2	
Rated current (HO)	94.00 A	80.00 A		
Output			Ambient conditions	
Number of phases	3 AC		CoolingAir cooling using an integrated fan	
Rated voltage	400V IEC	480V NEC	Cooling air requirement0.083 m³/s (2.931 ft³/s)	
Rated power (LO)	55.00 kW	75.00 hp	Installation altitude1000 m (3280.84 ft)	
Rated power (HO)	45.00 kW	50.00 hp	Ambient temperature	
Rated current (LO)	110.00 A	96.00 A	Operation-20 ... 45 °C (-4 ... 113 °F)	
Rated current (HO)	90.00 A	77.00 A	Transport-40 ... 70 °C (-40 ... 158 °F)	
Rated current (IN)	113.00 A		Storage-25 ... 55 °C (-13 ... 131 °F)	
Max. output current	149.00 A		Relative humidity	
Pulse frequency	4 kHz		Max. operation95 % At 40 °C (104 °F), condensation and icing not permissible	
Output frequency for vector control	0 ... 200 Hz			
Output frequency for V/f control	0 ... 550 Hz		Closed-loop control techniques	
Overload capability			V/f linear / square-law / parameterizableYes	
Low Overload (LO)			V/f with flux current control (FCC)Yes	
110% base load current IL for 60 s in a 300 s cycle time			V/f ECO linear / square-lawYes	
High Overload (HO)			Sensorless vector controlYes	
150% x base load current IH for 60 s within a 600 s cycle time			Vector control, with sensorNo	
			Encoderless torque controlYes	
			Torque control, with encoderNo	



Figure similar

MLFB-Ordering data

6SL3220-3YE40-0AF0

Mechanical data

Degree of protection	IP20 / UL open type
Size	FSE
Net weight	29 kg (63.93 lb)
Width	275 mm (10.83 in)
Height	551 mm (21.69 in)
Depth	239 mm (9.41 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	2
Output (resistive load)	DC 30 V, 5.0 A
Number as transistor	0

Analog / digital inputs

Number	2 (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 mm² (AWG 24 ... AWG 16)
-------------------------	---------------------------------------

Line side

Version	screw-type terminal
Conductor cross-section	25.00 ... 95.00 mm² (AWG 4 ... AWG -1)

Motor end

Version	Screw-type terminals
Conductor cross-section	25.00 ... 95.00 mm² (AWG 4 ... AWG -1)

DC link (for braking resistor)

PE connection	Screw-type terminals
---------------	----------------------

Max. motor cable length

Shielded	200 m (656.17 ft)
Unshielded	300 m (984.25 ft)

Standards

Compliance with standards	UL, cUL, CE, C-Tick (RCM), EAC, KCC, SEMI F47, REACH
---------------------------	--

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

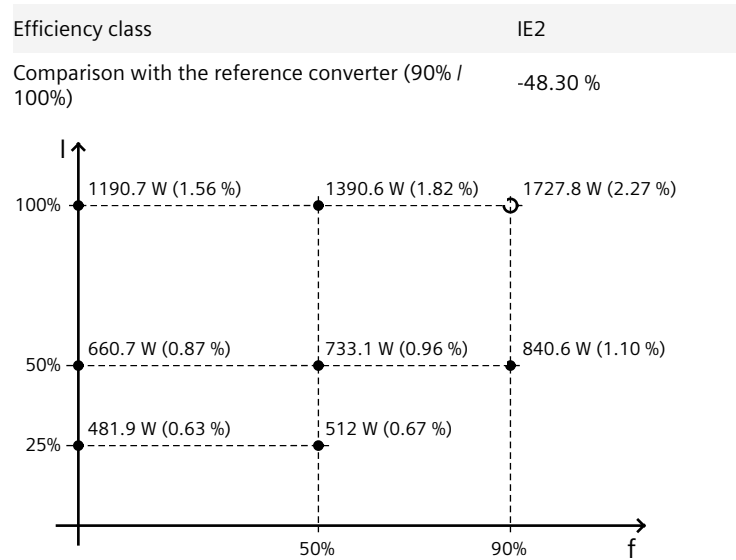


Figure similar

MLFB-Ordering data

6SL3220-3YE40-0AF0

Converter losses to EN 50598-2*



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
<div>Display designLCD colors</div> <div>Screen resolution320 x 240 Pixel</div>	<div>Ambient temperature during</div> <div>Operation0 ... 50 °C (32 ... 122 °F) 55 °C only with door mounting kit</div> <div>Storage-40 ... 70 °C (-40 ... 158 °F)</div> <div>Transport-40 ... 70 °C (-40 ... 158 °F)</div>
Mechanical data	<div>Relative humidity at 25°C during</div> <div>Max. operation95 %</div>
<div>Degree of protectionIP55 / UL type 12</div> <div>Net weight0.13 kg (0.30 lb)</div> <div>Width70.0 mm (2.76 in)</div> <div>Height106.85 mm (4.21 in)</div> <div>Depth19.65 mm (0.77 in)</div>	<div>Approvals</div> <div>Certificate of suitabilityCE, cULus, EAC, KCC, RCM</div>