



Figure similar

MLFB-Ordering data

6SL3210-5BE31-5CV0

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Rated data

Input

Number of phases	3 AC
Line voltage	380 ... 480 V -15 % +10 %
Line frequency	47 ... 63 Hz

Output

Number of phases	3 AC
Rated voltage	400 V
Rated power (HO)	15.00 kW / 20.00 hp
Rated power (LO)	15.00 kW / 20.00 hp
Rated current (HO)	31.00 A
Rated current (LO)	31.00 A
Rated current (HO) at 480V	31.00 A
Rated current (LO) at 480V	31.00 A
Pulse frequency	4.00 kHz
Output frequency	0 ... 550 Hz

General tech. specifications

Power factor λ	0.72
Offset factor $\cos \varphi$	0.95
Efficiency η	0.98
Filter class (integrated)	Class A

Ambient conditions

Cooling	External fan
Installation altitude	1000 m (3281 ft)

Ambient temperature

Operation	-10 ... 60 °C (14 ... 140 °F)
Storage	-40 ... 70 °C (-40 ... 158 °F)

Relative humidity

Max. operation	95 %
----------------	------

Communication

Communication	USS, Modbus RTU
---------------	-----------------

Standards

Compliance with standards	CE, cULus, C-Tick (RCM), KC
CE marking	EN 61800-5-1 / EN 60204-1 and EN 61800-3

Overload capability

Low Overload (LO)

110 % rated output current for 60 s, cycle time 300 s

High Overload (HO)

150 % rated output current for 60 s, cycle time 300 s



Figure similar

Mechanical data

Mounting position	Through-hole mounting / wall mounting / side-by-side mounting
Degree of protection	IP20 / UL open type
Size	FSD
Net weight	4.30 kg (9.48 lb)
Width	240.0 mm (9.45 in)
Height	206.5 mm (8.13 in)
Depth	172.5 mm (6.79 in)

Inputs / outputs

Standard digital inputs

Number	4
--------	---

Digital outputs

Number as relay changeover contact	1
Number as transistor	1

Analog inputs

Number	2 (Can be used as additional digital input)
--------	---

Analog outputs

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

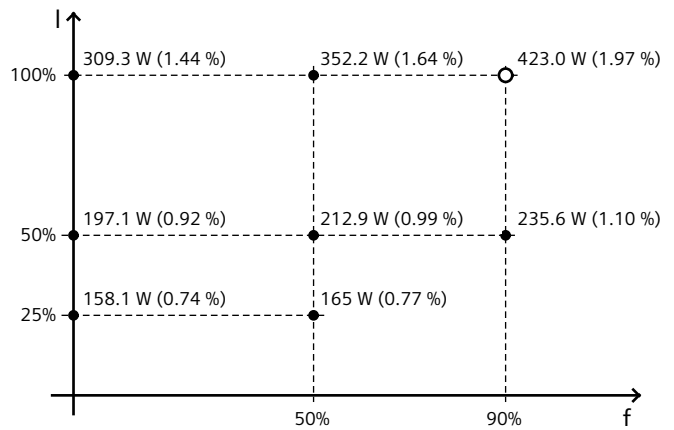
Connections

Max. motor cable length

Shielded	25 m (82 ft)
Unshielded	50 m (164 ft)

Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-38.02 %



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