

Data sheet for SINAMICS V20

Article No. : 6SL3210-5BE21-1UV0



Figure similar

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	400V IEC480V NEC 1)
Rated power (LO)	1.10 kW1.50 hp
Rated power (HO)	1.10 kW1.50 hp
Rated current (LO)	3.10 A3.10 A
Rated current (HO)	3.10 A3.10 A
Rated current (IN)	3.10 A
Pulse frequency	4.00 kHz
Output frequency	0 ... 550 Hz

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	

General tech. specifications	
Power factor λ	0.72
Offset factor cos φ	0.95
Efficiency η	0.98
Filter class (integrated)	Unfiltered

Communication	
Communication	USS, Modbus RTU

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

Ambient conditions

Cooling	External fan
Installation altitude	1,000 m (3,280.84 ft)

Ambient temperature	
Operation2)	-10 ... 60 °C (14 ... 140 °F)
Storage	-40 ... 70 °C (-40 ... 158 °F)

Relative humidity	
Max. operation	95 %

Connections

Max. motor cable length	
Shielded	10 m (32.81 ft)
Unshielded	50 m (164.04 ft)

Mechanical data	
Mounting position	Wall mounting / side-by-side mounting
Degree of protection	IP20 / UL open type
Frame size	FSA
Net weight	1.00 kg (2.20 lb)

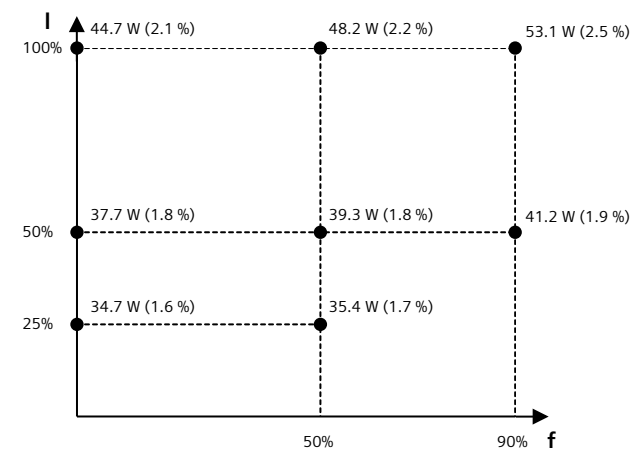
Dimensions	
Width	90.0 mm (3.54 in)
Height	166.0 mm (6.54 in)
Depth	145.5 mm (5.73 in)

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

Data sheet for SINAMICS V20

Article No. : 6SL3210-5BE21-1UV0

Converter losses to IEC61800-9-2*	
Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	26.0 %



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 IEC61800-9-2) 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

¹⁾ The output current and HP ratings are valid for the voltage range 440V-480V

²⁾ Please observe derating at temperatures of 40 °C or above