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Data sheet for SINAMICS V20

Article No. : 6SL3210-5BE31-8UV0



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 IEC**	**480V NEC** [1]
Rated power (LO)	22.00 kW	30.00 hp
Rated power (HO)	18.50 kW	25.00 hp
Rated current (LO)	45.00 A	40.00 A
Rated current (HO)	38.00 A	34.00 A
Rated current (IN)	45.00 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	
Operation[2]	-10 ... 60 °C (14 ... 140 °F)
Storage	-40 ... 70 °C (-40 ... 158 °F)
Relative humidity	
Max. operation	95 %

Connections

Max. motor cable length	
Shielded	50 m (164.04 ft)
Unshielded	100 m (328.08 ft)

Mechanical data

Mounting position	Through-hole mounting / wall mounting / side-by-side mounting
Degree of protection	IP20 / UL open type
Frame size	FSE
Net weight	6.24 kg (13.76 lb)
Dimensions	
Width	245.0 mm (9.65 in)
Height	264.5 mm (10.41 in)
Depth	209.0 mm (8.23 in)

Standards

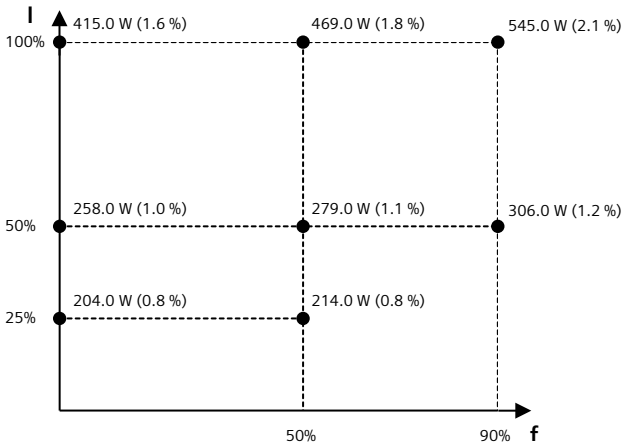
Compliance with standards	CE, cULus, C-Tick (RCM), KC
CE marking	EN 61800-5-1 /EN 60204-1 and EN 61800-3

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Converter losses to IEC61800-9-2*	
Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	41.0 %



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.

*calculated 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