

SIEMENS

Data sheet for SINAMICS V20

Article No. : 6SL3210-5BE24-0CV1



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated data		
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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)	4.00 kW	5.00 hp
Rated power (HO)	4.00 kW	5.00 hp
Rated current (LO)	8.80 A	8.20 A
Rated current (HO)	8.80 A	8.20 A
Rated current (IN)	8.80 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	
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Power factor λ	0.72
Offset factor cos φ	0.95
Efficiency η	0.98
Filter class (integrated)	Class A
With integrated braking chopper	Yes

Communication	
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Communication	USS, Modbus RTU
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Inputs / outputs	
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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	
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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	
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Max. motor cable length	
Shielded	25 m (82.02 ft)
Unshielded	50 m (164.04 ft)

Mechanical data	
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Mounting position	Through-hole mounting / wall mounting / side-by-side mounting
Degree of protection	IP20 / UL open type
Frame size	FSB
Net weight	1.80 kg (3.97 lb)

Dimensions	
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Width	140.0 mm (5.51 in)
Height	160.0 mm (6.30 in)
Depth	164.5 mm (6.48 in)

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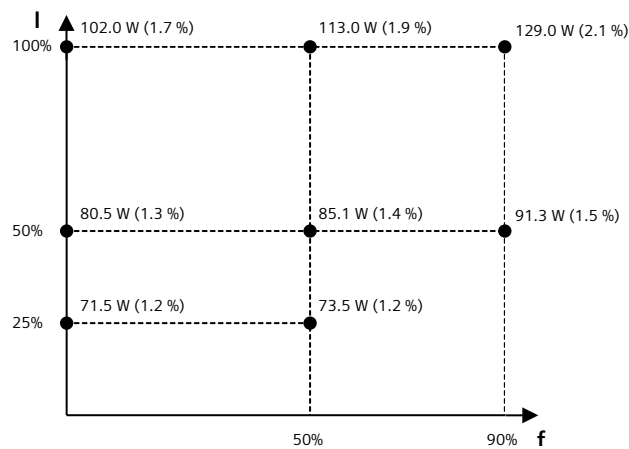
Compliance with standards	CE, cULus, C-Tick (RCM), KC
CE marking	EN 61800-5-1 /EN 60204-1 and EN 61800-3

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Converter losses to IEC61800-9-2*	
Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	33.1 %



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