

SIEMENS

Data sheet for SINAMICS V20

Article No. :

6SL3210-5BE24-0CV0

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

Item no. :
Consignment no. :
Project :



Figure similar

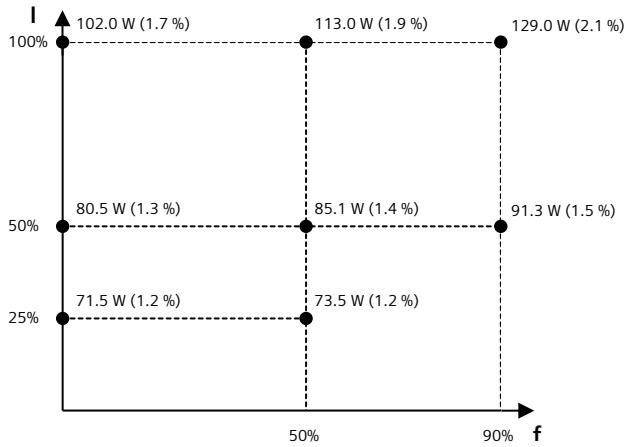
Rated data				
Input				
Number of phases	3 AC			
Line voltage	380 ... 480 V -15 % +10 %			
Line frequency	47 ... 63 Hz			
Output				
Number of phases	3 AC			
Rated voltage	400V IEC	480V NEC¹⁾		
Rated power (LO)	4.00 kW	5.00 hp		
Rated power (HO)	4.00 kW	5.00 hp		
Rated current (LO)	8.80 A	8.20 A		
Rated 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				
Power factor λ	0.72			
Offset factor $\cos \phi$	0.95			
Efficiency η	0.98			
Filter class (integrated)	Class A			
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	25 m (82.02 ft)
Unshielded	50 m (164.04 ft)
Mechanical data	
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	
Width	140.0 mm (5.51 in)
Height	160.0 mm (6.30 in)
Depth	164.5 mm (6.48 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%)	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