

Data sheet for SINAMICS V20

Article No.: 6SL3210-5BE21-5CV1

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

Rated data			
Input			
Number of phases	3 AC		
Line voltage	380 480 V -1	5 % +10 %	
Line frequency	47 63 Hz		
Output			
Number of phases	3 AC		
Rated voltage	400V IEC	480V NEC 1)	
Rated power (LO)	1.50 kW	2.00 hp	
Rated power (HO)	1.50 kW	2.00 hp	
Rated current (LO)	4.10 A	4.10 A	
Rated current (HO)	4.10 A	4.10 A	
Rated current (IN)	4.10 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 $\cos \phi$	0.95	
Efficiency η	0.98	
Filter class (integrated)	Class A	
With integrated braking chopper	Yes	
Communication		
Communication	USS, Modbus RTU	
Inputs / outputs		

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		



Item no. : Consignment no. : Project :

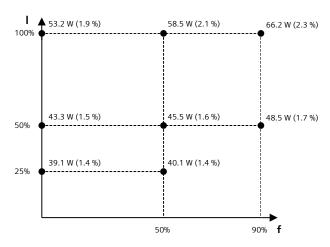
Ambient conditions		
Cooling	External fan	
Installation altitude	1,000 m (3,280.84 ft)	
Ambient temperature		
Operation ²⁾	-10 60 °C (14 140 °F)	
Storage	-40 70 °C (-40 158 °F)	
Relative humidity		
Max. operation	95 %	
Connections		
Max. motor cable length		
Shielded	10 m (32.81 ft)	
Unshielded	50 m (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	1.10 kg (2.43 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	



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Converter losses to IEC61800-9-2*		
Efficiency class	IE2	
Comparison with the reference converter (90% / 100%)	28.4 %	



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 $^{\circ}\text{C}$ or above