

Data sheet for SINAMICS V20

Article No.: 6SL3210-5BE27-5UV0

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

Analog outputs

Number

Rated data					
Input					
1	Number of phases	3 AC			
l	ine voltage	380 480 V -15 % +10 %			
L	ine frequency	47 63 Hz			
Ou	tput				
1	Number of phases	3 AC			
F	Rated voltage	400V IEC	480V NEC 1)		
	Rated power (LO)	7.50 kW	10.00 hp		
	Rated power (HO)	7.50 kW	10.00 hp		
	Rated current (LO)	16.50 A	16.50 A		
	Rated current (HO)	16.50 A	16.50 A		
	Rated current (IN)	16.50 A			
F	Pulse frequency	4.00 kHz			
(Output frequency	0 550 Hz			
Overload capability					
ı	Low Overload (LO)				
	10 % rated output current for 60 s, cycle time 300 s				
ı	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)	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)			



Figure similar

Item no. : Consignment no. : Project :

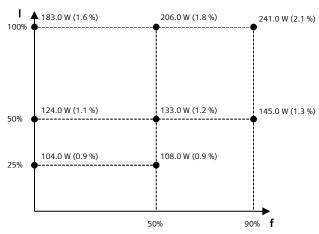
	Ambient	conditions			
Cooling		External fan			
Installation altitude		1,000 m (3,280.84 ft)			
Α	ambient temperature				
	Operation ²⁾	-10 60 °C (14 140 °F)			
	Storage	-40 70 °C (-40 158 °F)			
R	elative humidity				
	Max. operation	95 %			
_	Connections				
Max. motor cable length					
	Shielded	25 m (82.02 ft)			
	Unshielded	50 m (164.04 ft)			
Mechanical data					
Mounting position					
Ν	Mounting position	Through-hole mounting / wall mounting / side-by-side mounting			
	Mounting position Degree of protection				
D		mounting / side-by-side mounting			
D F	egree of protection	mounting / side-by-side mounting IP20 / UL open type			
D F N	egree of protection	mounting / side-by-side mounting IP20 / UL open type FSD			
D F N	rame size let weight	mounting / side-by-side mounting IP20 / UL open type FSD			
D F N	legree of protection rame size let weight Dimensions	mounting / side-by-side mounting IP20 / UL open type FSD 3.70 kg (8.16 lb)			
D F N	Degree of protection rame size let weight Dimensions Width	mounting / side-by-side mounting IP20 / UL open type FSD 3.70 kg (8.16 lb) 240.0 mm (9.45 in)			
D F N	Pegree of protection rame size let weight Dimensions Width Height Depth	mounting / side-by-side mounting IP20 / UL open type FSD 3.70 kg (8.16 lb) 240.0 mm (9.45 in) 206.5 mm (8.13 in)			
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Converter losses to IEC61800-9-2*		
Efficiency class	IE2	
Comparison with the reference converter (90% / 100%)	36.1 %	



The percentage values show the losses in relation to the rated apparent power of

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

 $^{^{1)}\}mbox{The}$ output current and HP ratings are valid for the voltage range 440V-480V

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