SIEMENS

Data sheet for SINAMICS V20

Article No.: 6SL3210-5BE23-0UV0

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

Number

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)	3.00 kW	4.00 hp	
Rated power (HO)	3.00 kW	4.00 hp	
Rated current (LO)	7.30 A	7.30 A	
Rated current (HO)	7.30 A	7.30 A	
Rated current (IN)	7.30 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)	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		



Figure similar

Item no. : Consignment no. : Project :

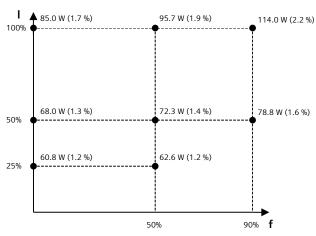
Δmh	ient conditions		
Cooling	External fan		
Installation altitude	1,000 m (3,280.84 ft)		
Ambient temperature	1,000 III (3,200.04 It)		
Operation ²⁾	-10 60 °C (14 140 °F)		
•	-40 70 °C (-40 158 °F)		
Storage	-40 70 °C (-40 158 °F)		
Relative humidity	05.9/		
Max. operation	95 %		
Connections			
Max. 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	1.60 kg (3.53 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		



Data sheet for SINAMICS V20

Article No.: 6SL3210-5BE23-0UV0

Converter losses to IEC61800-9-2*		
Efficiency class	IE2	
Comparison with the reference converter (90% / 100%)	33.4 %	



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.

^{*}converted values

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

 $^{^{2)}\}mbox{Please}$ observe derating at temperatures of 40 °C or above