

SIEMENS

Data sheet for SINAMICS V20



Figure similar

MLFB-Ordering data 6SL3210-5BE32-2UV0

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

Item no. :
Consignment no. :
Project :

Rated data	General tech. specifications
Input	Power factor λ 0.72
Number of phases 3 AC	Offset factor $\cos \varphi$ 0.95
Line voltage 380 ... 480 V -15 % +10 %	Efficiency η 0.98
Line frequency 47 ... 63 Hz	Filter class (integrated) Unfiltered
Output	Ambient conditions
Number of phases 3 AC	Cooling External fan
Rated voltage 400 V	Installation altitude 1000 m (3281 ft)
Rated power (HO) 22.00 kW / 30.00 hp	Ambient temperature
Rated power (LO) 30.00 kW / 40.00 hp	Operation -10 ... 60 °C (14 ... 140 °F)
Rated current (HO) 45.00 A	Storage -40 ... 70 °C (-40 ... 158 °F)
Rated current (LO) 60.00 A	Relative humidity
Rated current (HO) at 480V 40.00 A	Max. operation 95 %
Rated current (LO) at 480V 52.00 A	Communication
Pulse frequency 4.00 kHz	Communication USS, Modbus RTU
Output frequency 0 ... 550 Hz	Standards
	Compliance with standards CE, cULus, C-Tick (RCM), KC
	CE marking EN 61800-5-1 /EN 60204-1 and EN 61800-3

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



Figure similar

Mechanical data	
Mounting position	Through-hole mounting / wall mounting / side-by-side mounting
Degree of protection	IP20 / UL open type
Size	FSE
Net weight	6.45 kg (14.22 lb)
Width	245.0 mm (9.65 in)
Height	264.5 mm (10.41 in)
Depth	209.0 mm (8.23 in)
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

Connections																																					
Max. motor cable length																																					
Shielded	50 m (164 ft)																																				
Unshielded	100 m (328 ft)																																				
Converter losses to EN 50598-2*																																					
Efficiency class	IE2																																				
Comparison with the reference converter (90% / 100%)	-38.60 %																																				
<table><tr><th>Relative torque generating current (I)</th><th>Relative motor stator frequency (f)</th><th>Losses (W)</th><th>Losses (%)</th></tr><tr><td>100%</td><td>0%</td><td>465.0</td><td>1.49 %</td></tr><tr><td>100%</td><td>50%</td><td>521.1</td><td>1.67 %</td></tr><tr><td>100%</td><td>90%</td><td>598.1</td><td>1.92 %</td></tr><tr><td>50%</td><td>0%</td><td>286.2</td><td>0.92 %</td></tr><tr><td>50%</td><td>50%</td><td>309.1</td><td>0.99 %</td></tr><tr><td>50%</td><td>90%</td><td>337.2</td><td>1.08 %</td></tr><tr><td>25%</td><td>0%</td><td>225.2</td><td>0.72 %</td></tr><tr><td>25%</td><td>50%</td><td>236</td><td>0.76 %</td></tr></table>		Relative torque generating current (I)	Relative motor stator frequency (f)	Losses (W)	Losses (%)	100%	0%	465.0	1.49 %	100%	50%	521.1	1.67 %	100%	90%	598.1	1.92 %	50%	0%	286.2	0.92 %	50%	50%	309.1	0.99 %	50%	90%	337.2	1.08 %	25%	0%	225.2	0.72 %	25%	50%	236	0.76 %
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