

SIEMENS

Data sheet for SINAMICS V20



Figure similar

MLFB-Ordering data 6SL3210-5BB21-5BV1

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

Item no. :
Consignment no. :
Project :

Rated data	General tech. specifications																																														
Input <table><tr><td>Number of phases</td><td>1 AC</td></tr><tr><td>Line voltage</td><td>200 ... 240 V -15 % +10 %</td></tr><tr><td>Line frequency</td><td>47 ... 63 Hz</td></tr></table> Output <table><tr><td>Number of phases</td><td>3 AC</td></tr><tr><td>Rated voltage</td><td>230 V</td></tr><tr><td>Rated power (HO)</td><td>1.50 kW / 2.00 hp</td></tr><tr><td>Rated power (LO)</td><td>1.50 kW / 2.00 hp</td></tr><tr><td>Rated current (HO)</td><td>7.80 A</td></tr><tr><td>Rated current (LO)</td><td>7.80 A</td></tr></table> <table><tr><td>Pulse frequency</td><td>8.00 kHz</td></tr><tr><td>Output frequency</td><td>0 ... 550 Hz</td></tr></table>	Number of phases	1 AC	Line voltage	200 ... 240 V -15 % +10 %	Line frequency	47 ... 63 Hz	Number of phases	3 AC	Rated voltage	230 V	Rated power (HO)	1.50 kW / 2.00 hp	Rated power (LO)	1.50 kW / 2.00 hp	Rated current (HO)	7.80 A	Rated current (LO)	7.80 A	Pulse frequency	8.00 kHz	Output frequency	0 ... 550 Hz	<table><tr><td>Power factor λ</td><td>0.72</td></tr><tr><td>Offset factor $\cos \varphi$</td><td>0.95</td></tr><tr><td>Efficiency η</td><td>0.98</td></tr><tr><td>Filter class (integrated)</td><td>Class B</td></tr></table> Ambient conditions <table><tr><td>Cooling</td><td>External fan</td></tr><tr><td>Installation altitude</td><td>1000 m (3281 ft)</td></tr></table> Ambient temperature <table><tr><td>Operation</td><td>-10 ... 60 °C (14 ... 140 °F)</td></tr><tr><td>Storage</td><td>-40 ... 70 °C (-40 ... 158 °F)</td></tr></table> Relative humidity <table><tr><td>Max. operation</td><td>95 %</td></tr></table> Communication <table><tr><td>Communication</td><td>USS, Modbus RTU</td></tr></table> Standards <table><tr><td>Compliance with standards</td><td>CE, cULus, C-Tick (RCM)</td></tr><tr><td>CE marking</td><td>EN 61800-5-1 /EN 60204-1 and EN 61800-3</td></tr></table>	Power factor λ	0.72	Offset factor $\cos \varphi$	0.95	Efficiency η	0.98	Filter class (integrated)	Class B	Cooling	External fan	Installation altitude	1000 m (3281 ft)	Operation	-10 ... 60 °C (14 ... 140 °F)	Storage	-40 ... 70 °C (-40 ... 158 °F)	Max. operation	95 %	Communication	USS, Modbus RTU	Compliance with standards	CE, cULus, C-Tick (RCM)	CE marking	EN 61800-5-1 /EN 60204-1 and EN 61800-3
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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

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Mechanical data		Connections	
Mounting position	Wall mounting / side-by-side mounting	Max. motor cable length	
Degree of protection	IP20 / UL open type	Shielded	25 m (82 ft)
Size	FSAC	Unshielded	50 m (164 ft)
Net weight	1.40 kg (3.09 lb)		
Width	91.0 mm (3.57 in)		
Height	160.9 mm (6.33 in)		
Depth	147.0 mm (5.79 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		