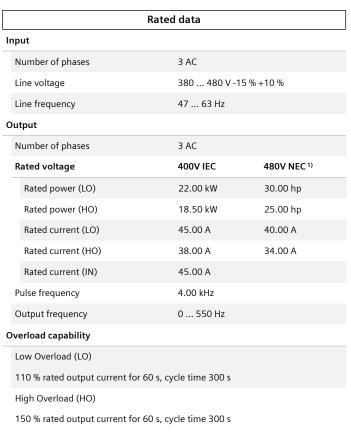


Data sheet for SINAMICS V20

Article No.: 6SL3210-5BE31-8UV0

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



General tech. specifications		
Power factor λ	0.72	
Offset factor $\cos\phi$	0.95	
Efficiency η	0.98	
Filter class (integrated)	Unfiltered	
With integrated braking chopper	Yes	
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)	



Item no. : Consignment no. : Project :

Amb	ient 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	50 m (164.04 ft)	
Unshielded	100 m (328.08 ft)	
Mechanical data		
Mounting position	Through-hole mounting / wall mounting / side-by-side mounting	
Degree of protection	IP20 / UL open type	
Frame size	FSE	
Net weight	6.24 kg (13.76 lb)	
Dimensions		
Width	245.0 mm (9.65 in)	
Height	264.5 mm (10.41 in)	
Depth	209.0 mm (8.23 in)	
Standards		
Compliance with standards	CE, cULus, C-Tick (RCM), KC	
CE marking	EN 61800-5-1 /EN 60204-1 and EN 61800-3	

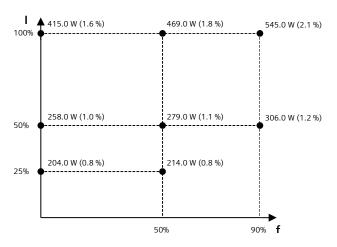
Analog outputs
Number



Data sheet for SINAMICS V20

Article No.: 6SL3210-5BE31-8UV0

Converter losses to IEC61800-9-2*	
Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	41.0 %



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