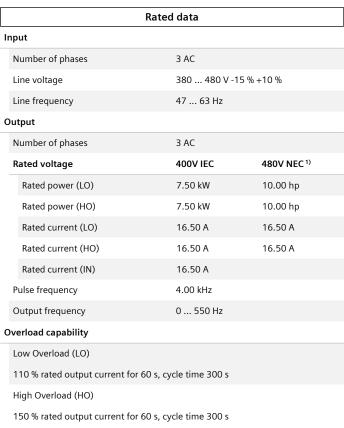


## Data sheet for SINAMICS V20

Article No.: 6SL3210-5BE27-5CV0

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

Number



General tech. specifications		
Power factor λ	0.72	
Offset factor cos φ	0.95	
Efficiency η	0.98	
Filter class (integrated)	Class A	
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		



Item no. : Consignment no. : Project :

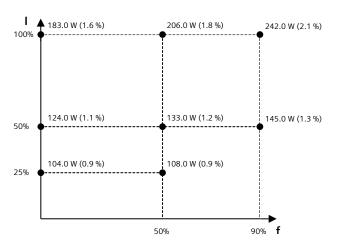
Ambient conditions		
Cooling	External fan	
Installation altitude	1,000 m (3,280.84 ft)	
Ambient temperature		
Operation <sup>2)</sup>	-10 60 °C (14 140 °F)	
Storage	-40 70 °C (-40 158 °F)	
Relative humidity		
Max. operation	95 %	
Connections		
Max. motor cable length		
Shielded	25 m (82.02 ft)	
Unshielded	50 m (164.04 ft)	
Mechanical data		
Mounting position	Through-hole mounting / wall mounting / side-by-side mounting	
Mounting position  Degree of protection		
3,	mounting / side-by-side mounting	
Degree of protection	mounting / side-by-side mounting  IP20 / UL open type	
Degree of protection Frame size	mounting / side-by-side mounting  IP20 / UL open type  FSD	
Degree of protection Frame size Net weight	mounting / side-by-side mounting  IP20 / UL open type  FSD	
Degree of protection Frame size Net weight Dimensions	mounting / side-by-side mounting  IP20 / UL open type  FSD  4.00 kg (8.82 lb)	
Degree of protection Frame size Net weight Dimensions Width	mounting / side-by-side mounting  IP20 / UL open type  FSD  4.00 kg (8.82 lb)  240.0 mm (9.45 in)	
Degree of protection Frame size Net weight Dimensions Width Height Depth	mounting / side-by-side mounting  IP20 / UL open type  FSD  4.00 kg (8.82 lb)  240.0 mm (9.45 in)  206.5 mm (8.13 in)	
Degree of protection Frame size Net weight Dimensions Width Height Depth	mounting / side-by-side mounting  IP20 / UL open type  FSD  4.00 kg (8.82 lb)  240.0 mm (9.45 in)  206.5 mm (8.13 in)  172.5 mm (6.79 in)	



## **Data sheet for SINAMICS V20**

Article No.: 6SL3210-5BE27-5CV0

Converter losses to IEC61800-9-2*	
Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	36.3 %



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.

<sup>\*</sup>calculated values

<sup>1)</sup> The output current and HP ratings are valid for the voltage range 440V-480V

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