

Article No. : 6SL3210-5BE25-5UV0



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated data

| | |
|------------------|---------------------------|
| Input | |
| Number of phases | 3 AC |
| Line voltage | 380 ... 480 V -15 % +10 % |
| Line frequency | 47 ... 63 Hz |

| | |
|--------------------|---------------------|
| Output | |
| Number of phases | 3 AC |
| Rated voltage | 400V IEC480V NEC 1) |
| Rated power (LO) | 5.50 kW7.50 hp |
| Rated power (HO) | 5.50 kW7.50 hp |
| Rated current (LO) | 12.50 A11.00 A |
| Rated current (HO) | 12.50 A11.00 A |
| Rated current (IN) | 12.50 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 φ | 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 | |
| Number | 1 |

Ambient conditions

| | |
|-----------------------|-----------------------|
| Cooling | External fan |
| Installation altitude | 1,000 m (3,280.84 ft) |

| | |
|---------------------|--------------------------------|
| Ambient temperature | |
| Operation2) | -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 |
| Degree of protection | IP20 / UL open type |
| Frame size | FSC |
| Net weight | 2.40 kg (5.29 lb) |

| | |
|------------|--------------------|
| Dimensions | |
| Width | 184.0 mm (7.24 in) |
| Height | 182.0 mm (7.17 in) |
| Depth | 169.0 mm (6.65 in) |

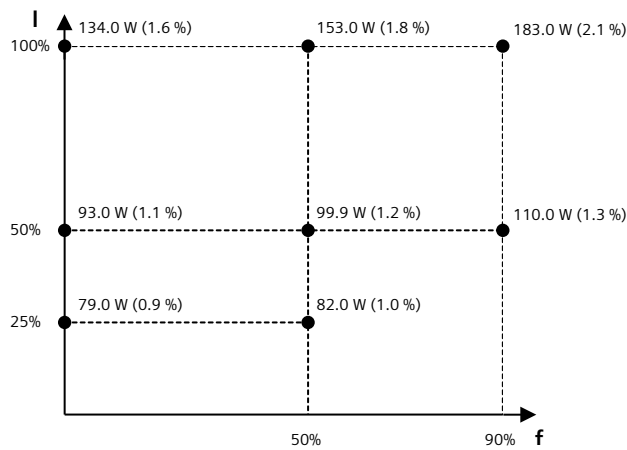
Standards

| | |
|---------------------------|---|
| 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. : 6SL3210-5BE25-5UV0

| Converter losses to IEC61800-9-2* | |
|--|--------|
| Efficiency class | IE2 |
| Comparison with the reference converter (90% / 100%) | 35.2 % |



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 °C or above