

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

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

Item no. :  
Consignment no. :  
Project :



Figure similar

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)   | 7.50 kW10.00 hp     |
| Rated power (HO)   | 7.50 kW10.00 hp     |
| Rated current (LO) | 16.50 A16.50 A      |
| Rated current (HO) | 16.50 A16.50 A      |
| Rated current (IN) | 16.50 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) | 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 |   |
| Number         | 1 |

Ambient 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                | 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           | FSD                                                           |
| Net weight           | 4.00 kg (8.82 lb)                                             |

|            |                    |
|------------|--------------------|
| Dimensions |                    |
| Width      | 240.0 mm (9.45 in) |
| Height     | 206.5 mm (8.13 in) |
| Depth      | 172.5 mm (6.79 in) |

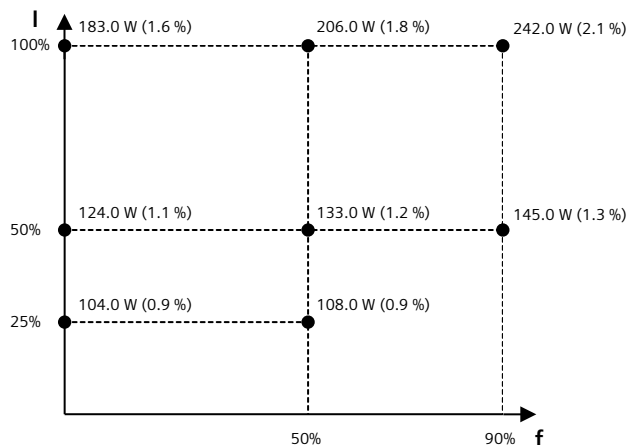
Standards

|                           |                                         |
|---------------------------|-----------------------------------------|
| 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

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| 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.

\*calculated values

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

<sup>2)</sup> Please observe derating at temperatures of 40 °C or above