

Article No. : 6SL3210-5BE21-1UV1

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

Item no. :  
Consignment no. :  
Project :



Figure similar

### Rated data

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

|                      |                                             |
|----------------------|---------------------------------------------|
| <b>Output</b>        |                                             |
| Number of phases     | 3 AC                                        |
| <b>Rated voltage</b> | <b>400V IEC      480V NEC <sup>1)</sup></b> |
| Rated power (LO)     | 1.10 kW      1.50 hp                        |
| Rated power (HO)     | 1.10 kW      1.50 hp                        |
| Rated current (LO)   | 3.10 A      3.10 A                          |
| Rated current (HO)   | 3.10 A      3.10 A                          |
| Rated current (IN)   | 3.10 A                                      |
| Pulse frequency      | 4.00 kHz                                    |
| Output frequency     | 0 ... 550 Hz                                |

|                                                       |  |
|-------------------------------------------------------|--|
| <b>Overload capability</b>                            |  |
| 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 $\lambda$          | 0.72       |
| Offset factor $\cos \varphi$    | 0.95       |
| Efficiency $\eta$               | 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) |
|--------|---------------------------------------------|

#### Analog outputs

|        |   |
|--------|---|
| Number | 1 |
|--------|---|

### 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   | 10 m (32.81 ft)  |
| Unshielded | 50 m (164.04 ft) |

### Mechanical data

|                      |                                       |
|----------------------|---------------------------------------|
| Mounting position    | Wall mounting / side-by-side mounting |
| Degree of protection | IP20 / UL open type                   |
| Frame size           | FSA                                   |
| Net weight           | 1.00 kg (2.20 lb)                     |

#### Dimensions

|        |                    |
|--------|--------------------|
| Width  | 90.0 mm (3.54 in)  |
| Height | 166.0 mm (6.54 in) |
| Depth  | 145.5 mm (5.73 in) |

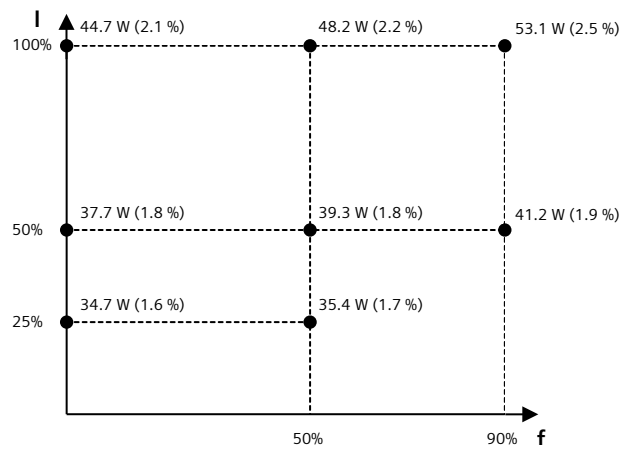
### Standards

|                           |                                          |
|---------------------------|------------------------------------------|
| 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. : 6SL3210-5BE21-1UV1

| Converter losses to IEC61800-9-2*                    |        |
|------------------------------------------------------|--------|
| Efficiency class                                     | IE2    |
| Comparison with the reference converter (90% / 100%) | 26.0 % |



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

<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