

## Data sheet for SINAMICS V20

Article No. : 6SL3210-5BB17-5UV1

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

Item no. :  
Consignment no. :  
Project :



Figure similar

### Rated data

#### Input

|                  |                           |
|------------------|---------------------------|
| Number of phases | 1 AC                      |
| Line voltage     | 200 ... 240 V -15 % +10 % |
| Line frequency   | 47 ... 63 Hz              |

#### Output

|                      |                 |                               |
|----------------------|-----------------|-------------------------------|
| Number of phases     | 3 AC            |                               |
| <b>Rated voltage</b> | <b>230V IEC</b> | <b>240V NEC <sup>1)</sup></b> |
| Rated power (LO)     | 0.75 kW         | 0.75 hp                       |
| Rated power (HO)     | 0.75 kW         | 1.00 hp                       |
| Rated current (LO)   | 4.20 A          | 4.20 A                        |
| Rated current (HO)   | 4.20 A          | 4.20 A                        |
| Rated current (IN)   | 4.20 A          |                               |
| Pulse frequency      | 8.00 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                    | convection cooling             |
| Installation altitude      | 1,000 m (3,280.84 ft)          |
| <b>Ambient temperature</b> |                                |
| Operation                  | -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    | Wall mounting / side-by-side mounting |
| Degree of protection | IP20 / UL open type                   |
| Frame size           | FSAB                                  |
| Net weight           | 0.90 kg (1.98 lb)                     |

#### Dimensions

|        |                    |
|--------|--------------------|
| Width  | 68.0 mm (2.68 in)  |
| Height | 142.0 mm (5.59 in) |
| Depth  | 127.8 mm (5.03 in) |

### Standards

|                           |                                         |
|---------------------------|-----------------------------------------|
| Compliance with standards | CE, cULus, C-Tick (RCM), KC             |
| CE marking                | EN 61800-5-1 /EN 60204-1 and EN 61800-3 |

<sup>1)</sup>The output current and HP ratings are valid for the voltage range 220V-240V