

## Data sheet for SINAMICS V20

Article No. : 6SL3210-5BB21-1UV1



Figure similar

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

Item no. :  
Consignment no. :  
Project :

### 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                      |                        |
| Rated voltage      | 230V IEC                  | 240V NEC <sup>1)</sup> |
| Rated power (LO)   | 1.10 kW                   | 1.50 hp                |
| Rated power (HO)   | 1.10 kW                   | 1.50 hp                |
| Rated current (LO) | 6.00 A                    | 6.00 A                 |
| Rated current (HO) | 6.00 A                    | 6.00 A                 |
| Rated current (IN) | 6.00 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                 | 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    | Wall mounting / side-by-side mounting |
| Degree of protection | IP20 / UL open type                   |
| Frame size           | FSAC                                  |
| Net weight           | 1.20 kg (2.65 lb)                     |

### Dimensions

|        |                    |
|--------|--------------------|
| Width  | 91.0 mm (3.57 in)  |
| Height | 160.9 mm (6.33 in) |
| Depth  | 147.0 mm (5.79 in) |

### Standards

|                           |                                         |
|---------------------------|-----------------------------------------|
| Compliance with standards | CE, cULus, C-Tick (RCM)                 |
| 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

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

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