

Data sheet for SINAMICS V20

Article No. : 6SL3210-5BB22-2AV0



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 -10 % +10 % |
| Line frequency | 47 ... 63 Hz |

Output

| | | |
|----------------------|-----------------|-------------------------------|
| Number of phases | 3 AC | |
| Rated voltage | 230V IEC | 240V NEC ¹⁾ |
| Rated power (LO) | 2.20 kW | 3.00 hp |
| Rated power (HO) | 2.20 kW | 3.00 hp |
| Rated current (LO) | 11.00 A | 11.00 A |
| Rated current (HO) | 11.00 A | 11.00 A |
| Rated current (IN) | 11.00 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 $\cos \varphi$ | 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 | F5C |
| Net weight | 2.50 kg (5.51 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 |

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

²⁾Please observe derating at temperatures of 40 °C or above