

Data sheet for SINAMICS V20

Article No. : 6SL3210-5BB13-7BV1



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 ¹⁾ |
| Rated power (LO) | 0.37 kW | 0.37 hp |
| Rated power (HO) | 0.37 kW | 0.50 hp |
| Rated current (LO) | 2.30 A | 2.30 A |
| Rated current (HO) | 2.30 A | 2.30 A |
| Rated current (IN) | 2.30 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 B |
| With integrated braking chopper | No |

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) |

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 | Wall mounting / side-by-side mounting |
| Degree of protection | IP20 / UL open type |
| Frame size | F5AA |
| Net weight | 0.60 kg (1.32 lb) |

Dimensions

| | |
|--------|--------------------|
| Width | 68.0 mm (2.68 in) |
| Height | 142.0 mm (5.59 in) |
| Depth | 107.8 mm (4.24 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

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6SL3210-5BB13-7BV1

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