



Figure similar

Data sheet for SINAMICS Control unit CU250S-2 USS

Article No. : 6SL3246-0BA22-1BA0

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

Item no. :
Consignment no. :
Project :

Electrical data

Operating voltage via

| | |
|------------------------|----------------|
| The Power Module | DC 24 V |
| External power supply | DC 20 ... 29 V |
| Max. power consumption | 2.00 A |
| Power loss | 12.00 W |

Communication

| | |
|---------------|-------|
| Communication | RS485 |
|---------------|-------|

Inputs / outputs

Standard digital inputs

| | |
|----------------------|------|
| Number | 15 |
| Switching level: 0→1 | 11 V |
| Switching level: 1→0 | 5 V |

Fail-safe digital inputs

| | |
|--------|----------------------------|
| Number | 3 (Use of 2 × DI Standard) |
|--------|----------------------------|

Digital outputs

as relay changer

| | |
|-------------------------|----------------|
| Number | 2 |
| Output (resistive load) | DC 30 V, 0.5 A |

as relay make contact

| | |
|-------------------------|----------------|
| Output (resistive load) | DC 30 V, 0.5 A |
|-------------------------|----------------|

Analog / digital inputs

| | |
|--------|------------------------|
| Number | 2 (Differential input) |
|--------|------------------------|

Analog outputs

| | |
|--------|-------------------------|
| Number | 2 (Non-isolated output) |
|--------|-------------------------|

Closed-loop control techniques

| | |
|---|-----|
| V/f linear / square-law / parameterizable | Yes |
| V/f with flux current control (FCC) | Yes |
| V/f ECO linear / square-law | Yes |
| Sensorless vector control | Yes |
| Vector control, with sensor | Yes |
| Encoderless torque control | Yes |
| Torque control, with encoder | Yes |

Ambient conditions

Ambient temperature

| | |
|-----------|--------------------------------|
| Operation | -10 ... 50 °C (14 ... 122 °F) |
| Storage | -40 ... 70 °C (-40 ... 158 °F) |

Relative humidity

| | |
|----------------|------|
| Max. operation | 95 % |
|----------------|------|

Connections

Signal cable

| | |
|-------------------------|--|
| Conductor cross-section | 0.05 ... 1.50 mm ² (AWG 28 ... AWG 16) |
|-------------------------|--|

Mechanical data

| | |
|----------------------|---------------------|
| Degree of protection | IP20 / UL open type |
|----------------------|---------------------|

| | |
|------------|-------------------|
| Net weight | 0.61 kg (1.34 lb) |
|------------|-------------------|

Dimensions

| | |
|--------|--------------------|
| Width | 73.0 mm (2.87 in) |
| Height | 199.0 mm (7.83 in) |
| Depth | 67.0 mm (2.64 in) |

Standards

| | |
|---------------------------|----------------------------|
| Compliance with standards | CE, UL, cUL, RCM, SEMI F47 |
|---------------------------|----------------------------|

| | |
|------------|----------------------------------|
| CE marking | Low-voltage directive 2014/35/EC |
|------------|----------------------------------|