



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 mm²<br>(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 |