SIEMENS

Data sheet for SINAMICS Control unit CU250S-2 USS

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



Figure similar

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 (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