SIEMENS

Data sheet 6BK1700-3BA20-0AA0

SPARE PART SIPLUS HCS300I BASIC UNIT DC=24V

Figure similar

General information	
Product brand name	SIPLUS
Installation type/mounting	
Mounting type	Snap-mounting on a TH 35 mm standard rail compliant with IEC 60715 or screw-mounted using additional push-in lug
Mounting position	any
Supply voltage	
Type of supply voltage	DC
Rated value (DC)	24 V
Relative negative tolerance	15 %
Relative positive tolerance	20 %
Resistance thermometer (RTD)	
• Design of electrical connection for supply voltage	Screw connection
— Connectable conductor cross-sections, solid	1x (0.5 ... 4 mm²), 2x (0.5 ... 2.5 mm²)

— Connectable conductor cross-sections, finely stranded with wire end processing	1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.5 mm²)
— Connectable conductor cross-sections for AWG cables	1x (20 ... 14), 2x (20 ... 16)
Power	
Active power input	7 W
Hardware configuration	
Connectable switching device	Maximum 4 digital modules and 4 temperature modules, 1 current measuring module or 1 current/voltage measuring module, 1 decoupling module
Digital inputs	
Number of digital inputs	4
Auxiliary voltage	
• Design of electrical connection at the digital inputs	Screw connection with removable terminal
— Connectable conductor cross-sections, solid	1x (0.5 ... 4 mm²), 2x (0.5 ... 2.5 mm²)
— Connectable conductor cross-sections, finely stranded with wire end processing	1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.5 mm²)
— Connectable conductor cross-sections for AWG cables	1x (20 ... 14), 2x (20 ... 16)
Digital outputs	
Number of semiconductor outputs	0
Number of outputs as contacting contact block	3
Design of switching output	monostable relays
Switching performance	monostable
short-circuit proof	No
Control supply voltage	
• Type of control supply voltage	DC
• permissible range, lower limit (DC)	24 V
• permissible range, upper limit (DC)	125 V
Characteristics will be deleted after June 30, 2015	
• Design of electrical connection at the digital outputs	Screw connection with removable terminal
— Connectable conductor cross-sections, solid	1x (0.5 ... 4 mm²), 2x (0.5 ... 2.5 mm²)
— Connectable conductor cross-sections, finely stranded with wire end processing	1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.5 mm²)
— Connectable conductor cross-sections for AWG cables	1x (20 ... 14), 2x (20 ... 16)
• Design of electrical connection for control supply voltage	Screw connection with removable terminal

— Connectable conductor cross-sections with wire end processing	1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.5 mm²)
— Connectable conductor cross-sections for AWG cables	1x (20 ... 14), 2x (20 ... 16)
Interfaces	
Interfaces/bus type	PROFIBUS DP
PROFIBUS DP	
• Transmission rate, max.	12 Mbit/s
• Design of electrical connection of PROFIBUS interface	9-pin sub D socket
Protocols	
PROFIBUS DP	Yes
Interrupts/diagnostics/status information	
Number of status displays	3
LED status display	device: 4 states, BUS: 2 states, GEN.FAULT: 2 states
Integrated Functions	
Measuring functions	
• Voltage measurement	Yes
• Current measurement	Yes
Isolation	
Degree of pollution	2
EMC	
EMC interference emission	IEC61131: Class A; conducted and radiated: DIN EN 55011/CISPR11 (corresponds to degree of severity A)
Electrostatic discharge acc. to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
Field-related interference acc. to IEC 61000-4-3	10 V/m (80 ... 1 000 MHz), 3 V/m (1.4 ... 2.0 GHz), 1 V/m (2.0 ... 2.7 GHz)
Conducted interference due to burst acc. to IEC 61000-4-4	2 kV power supply lines / 1 kV signal lines
Conducted interference due to surge acc. to IEC 61000-4-5	on supply cables: 1 kV symmetrical, 2 kV asymmetrical; on signal cables > 30 m unshielded: 1 kV symmetrical, 2 kV asymmetrical, > 30 m unshielded: 2 kV asymmetrical
Conducted interference due to high-frequency radiation acc. to IEC 61000-4-6	10 V (0.15 ... 80 MHz)
Degree and class of protection	
IP degree of protection	IP20
Standards, approvals, certificates	
Certificate of suitability	CE, cULus, C-TICK (RCM)
CE mark	Yes
UL approval	Yes
RCM (formerly C-TICK)	Yes

KC approval	Yes
EAC (formerly Gost-R)	Yes
China RoHS compliance	Yes
Equipment marking according to EN 61346-2	F
Device tag according to DIN EN 81346-2	F
Equipment marking according to DIN 40719, expanded according to IEC 204-2, according to IEC 750	F

Ambient conditions

Ambient temperature during operation	
• min.	-25 °C
• max.	60 °C
Ambient temperature during storage/transportation	
• Storage, min.	-40 °C
• Storage, max.	80 °C
• Transportation, min.	-40 °C
• Transportation, max.	80 °C
Air pressure acc. to IEC 60068-2-13	
• Operation, min.	795 hPa
• Operation, max.	1 080 hPa
• Storage, min.	660 hPa
• Storage, max.	1 080 hPa
• Installation altitude above sea level, max.	2 000 m
Vibrations	
• Vibration resistance during operation acc. to IEC 60068-2-6	5 ... 500 Hz, 3.5 mm amplitude, 1 g, 10 cycles, 1 octave/min
Shock testing	
• Shock resistance acc. to IEC 60068-2-27	15 g / 11 ms

Connection method

Design of electrical connection for auxiliary and control circuit	Screw connection

Dimensions

Width	45 mm
Height	106 mm
Depth	115 mm

last modified: 09/28/2017