SIEMENS

Data sheet

6BK1700-3BA60-0AA0

SIPLUS HCS300I CURRENT/ VOLTAGE DETECTION MODULE (UM) I = 2.4 - 25 A



General information	
Product brand name	SIPLUS
Product designation	HCS300I I/U detection module I = 2.4 - 25 A
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	
Design of the power supply	Supply via base unit
Hardware configuration	
Connectable switching device	Base device, 1 expansion module, 1 decoupling module DCM
Interfaces	
Interfaces/bus type	system interface
Integrated Functions	
Measuring functions	
Voltage measurement	Yes
Current measurement	Yes

Measuring inputs for voltage	
 Voltage measurement range, min. 	110 V
 Voltage measuring range, max. 	690 V
 Operational voltage at 50 Hz AC, min. 	110 V
 Operational voltage at 50 Hz AC, max. 	690 V
 Operational voltage at 60 Hz AC, min. 	110 V
 Operational voltage at 60 Hz AC, max. 	690 V
 Relative measuring accuracy voltage 	3 %
 Impulse voltage resistance 	6 000 V
 Operating frequency, min. 	50 Hz
Operating frequency, max.	60 Hz
 Design of electrical connection at the measuring inputs for voltage 	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 12), 2x (20 16)
Measuring inputs for current	
Current measurement range, min.	2.4 A
 Current measurement range, max. 	25 A
 Adjustable response value, current, min. 	2.4 A
 Adjustable response value, current, max. 	25 A
 Relative measuring accuracy current 	3 %
— Operating frequency 1	50 Hz
— Operating frequency 2	60 Hz
Isolation	
Overvoltage category	III

Overvoltage category	III
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 power supply lines: 1 kV symmetric, 2 kV asymmetric; on signal lines > 30 m unshielded: 1 kV symmetric, 2 kV asymmetric, > 30 m shielded: 2 kV asymmetric
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
Degree of pollution	2
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 main circuit	straight-through transformers
Design of electrical connection for auxiliary and control circuit	Screw connection
Dimensions	
Width	45 mm

Height	85 mm
Depth	71 mm
Diameter of the feed-through opening	7.5 mm

last modified: 10/14/2016