

SIPLUS HCS300I Current measuring module (IM) I=10-100 A



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               |                                                                                                                  |
| 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        | No                                                                                                               |

|                                            |         |
|--------------------------------------------|---------|
| • Current measurement                      | Yes     |
| Measuring inputs for voltage               |         |
| — Impulse voltage resistance               | 6 000 V |
| Measuring inputs for current               |         |
| — Current measurement range, min.          | 10 A    |
| — Current measurement range, max.          | 100 A   |
| — Adjustable response value, current, min. | 10 A    |
| — Adjustable response value, current, max. | 100 A   |
| — Relative measuring accuracy current      | 3 %     |
| — Operating frequency 1                    | 50 Hz   |
| — Operating frequency 2                    | 60 Hz   |

|                      |     |
|----------------------|-----|
| Isolation            |     |
| Overvoltage category | III |
| 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                     |
| Reference designation according to DIN EN 61346-2                                                  | F                       |
| Reference designation according to DIN EN 81346-2                                                  | F                       |
| Reference designation according to DIN 40719 extended 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

### Altitude during operation relating to sea level

- 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

## Dimensions

|                                      |       |
|--------------------------------------|-------|
| Width                                | 55 mm |
| Height                               | 94 mm |
| Depth                                | 72 mm |
| Diameter of the feed-through opening | 14 mm |

**last modified:** 08/13/2018