Intelligent Installation Systems

ABB i-bus® EIB

Current Module
SM/S 3.16.30

ABB STOTZ-KONTAKT
The Current Module SM/S 3.16.30 allows the measurement of load and/or residual current in 3 independent, potential free measurement circuits. The actual value of the load or residual current is sent over the ABB i-bus® EIB as a 1-byte telegram. In addition, current thresholds can be parameterized causing 1-bit switching telegrams to be sent should the current exceed or go below these levels.

Possible applications of the Current Module include:
- Display of the actual operating status of electrical consumers via measurement of the load current,
- Reliable 'On/Off' confirmation when switching electrical loads,
- Remote diagnose of electrical installations (e.g. Mainframe Computer installations, Fridge freezer etc.),
- Trend analyse for planning inspections and maintenance,
- Recording operating hours.

This device is to be used exclusively for the purpose of load and/or residual current measurement. It is not permissible, together with switching actuators, to use this device in place of the specified primary protection devices (miniature circuit breakers or residual current circuit breakers!)

Technical Data:
- Power supply via ABB i-bus® EIB
- Accuracy ± 2% from end value (sinus)

Measurement Circuits:
- Measurement circuits: 3 independent, potential free circuits
- Rated voltage: max. 230/400 V AC
- Frequency: 50 Hz (±10%)
- Circuit protection: 16 A

Load Current Measurement:
- Rated current: 16 A AC per measurement circuit (Measurement end value: 25.5 A, Resolution: 0.1 A)

Residual Current Measurement:
- Rated residual current: 30 mA AC per measurement circuit (Measurement end value: 51.0 mA, Resolution: 0.2 mA)
- Residual current type: Type A – sinusoidal a.c. and pulsed d.c.

Connection Diagram:

Control and Display Elements:
- LED and push-button for entering the physical address
- Protection class: IP 20 according to DIN 40 050
- Operating temperature range: -5°C to +45°C
- Connection: 4 screw terminals per measurement circuit
- Cable cross-section: 0.5 – 2.5 mm² multi-core, 0.5 – 4.0 mm² single core
- ABB i-bus® EIB Bus connection terminal
- Installation: on 35 mm mounting rail, DIN EN 50 022
- Dimensions (H x W x D): 90 x 72 x 64 mm
- Installation depth/width: 68 mm / 4 modules @ 18 mm
- Weight: 0.23 kg

Selection Table

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ABB STOTZ-KONTAKT GmbH
Postfach 10 16 80
D-69006 Heidelberg
Telephone +49 (0) 6221 701-543
Fax +49 (0) 6221 701-724
www.abb-stotz-kontakt.de

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