

Intelligent Installation Systems



Current Module SM/S 3.16.30

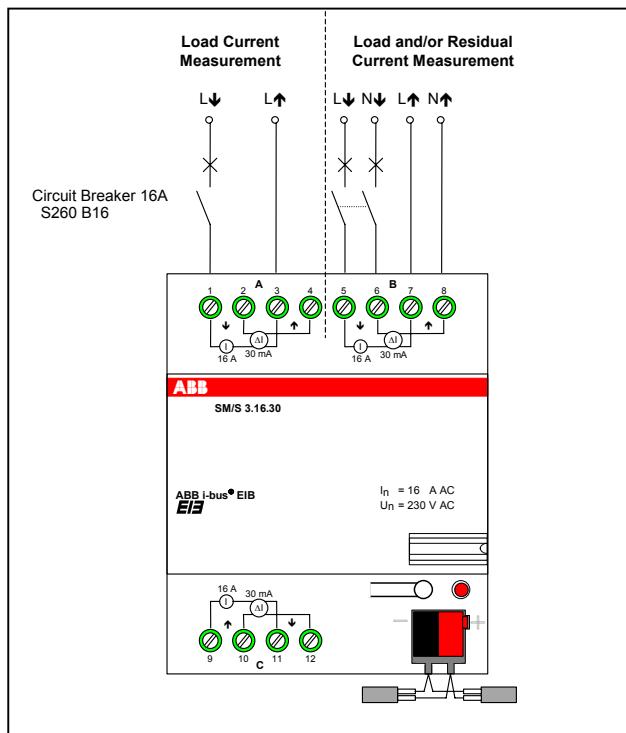
The Current Module SM/S 3.16.30 allows the measurement of load and/or residual current in 3 independent, potential free measurement circuits.

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.

Connection Diagram:



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)
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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.

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 mm ² multi-core 0.5 – 4.0 mm ² single core
ABB i-bus® EIB	Bus connection terminal
Installation	on 35 mm mounting rail, DIN EN 50 022
Dimensions (HxWxD)	90 x 72 x 64 mm
Installation depth/width	68 mm / 4 modules @ 18 mm
Weight	0.23 kg

Selection Table

Description	Ordering Info. Short Code	Product Code	bbn EAN	Price Group	Price 1 Pc.	Weight 1 Pc. [kg]	Package. [Pcs.]
Current Module	SM/S 3.16.30	GH Q631 0034 R0111	48040 6	26		0.23	1

