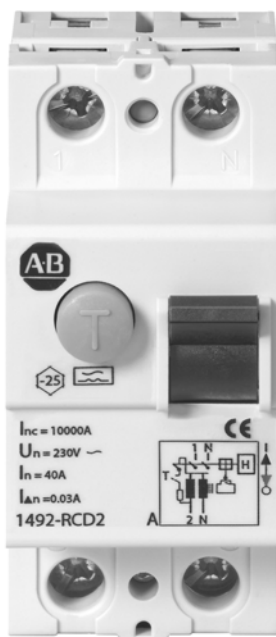


Residual Current Devices

Bulletin 1492-RCD

Selection Guide



Residual Current Devices

Product Overview/Description/Product Selection Table



Bulletin 1492 — Residual Current Devices

Earth Leakage Detectors for IEC Applications

The Bulletin 1492-RCD line includes Residual Current Devices for earth leakage detection to IEC standards. These devices are used in association with miniature circuit breakers (1492-SP).

Certifications

- CE and VDE.

Features

- True IP2X finger-safe design (front)
- Undelayed tripping time
- Line-voltage independent tripping (suitable for residual current & additional protection)
- Rated tripping current: 30, 100, 300, 500 mA
- For applications in which AC and pulsating DC fault currents are likely to appear, non-selective and non-delayed
- Designed to prevent unwanted tripping caused by switching electronic circuit devices
- Mounts on DIN Rail
- Busbar position on top or bottom
- Conditionally surge current proof 250 A
- Rated Short-Circuit strength: 10 kA with 63 A gG/gL back-up fuse, 10 kA with 80 A gG/gL back-up fuse for 80 A device
- Auxiliary and Signal contacts may be added
- Optional versions for use with Variable Frequency Drives

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Standards Compliance

- IEC/EN 61008

Certifying Agency

- VDE Association for Electrical, Electronic & Information Technologies

Description

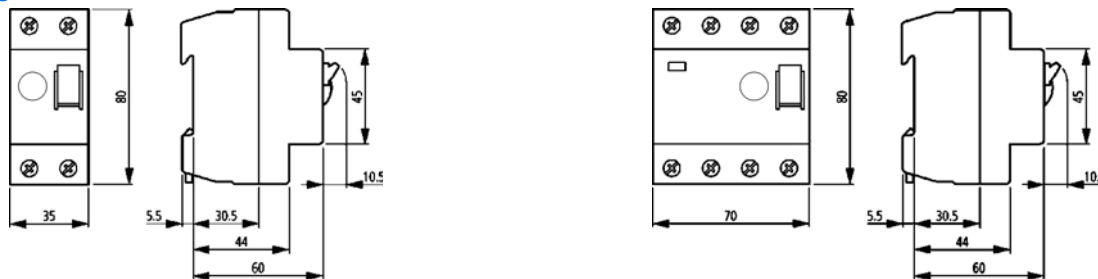
The Bulletin 1492 Residual Current Devices are available in 2- or 4-pole construction with four sensitivity settings to detect earth leakage to IEC standards. Bulletin 1492-RCDs are designed to provide a degree of safety in the sensing of earth leakage that can be hazardous to personnel or machinery. Both line and load terminals accept 1.5 ... 35 mm² copper wire.

It is recommended that the devices be tested monthly by using the "TEST" button to check for proper operation of the device.

Bulletin 1492-RCD Product Selection Table

Rated Tripping Current (mA)	Rated Current (A)	2-Pole (1 Pole + Neutral)	4-Pole (3-Pole + Neutral)	
			Standard	For Use with Variable Frequency Drives
30	16	1492-RCD2A16	—	—
	25	1492-RCD2A25	1492-RCD4A25	—
	40	1492-RCD2A40	1492-RCD4A40	—
	63	—	1492-RCD4A63	—
	80	—	1492-RCD4A80	—
100	25	1492-RCD2B25	1492-RCD4B25	—
	40	1492-RCD2B40	1492-RCD4B40	1492-RCD4B40D
	63	—	1492-RCD4B63	1492-RCD4B63D
300	16	—	1492-RCD4C16	—
	25	1492-RCD2C25	1492-RCD4C25	—
	40	1492-RCD2C40	1492-RCD4C40	1492-RCD4C40D
	63	—	1492-RCD4C63	1492-RCD4C63D
	80	—	1492-RCD4C80	—
500	16	—	1492-RCD4D16	—
	25	—	1492-RCD4D25	—
	40	—	1492-RCD4D40	—
	63	—	1492-RCD4D63	—
	80	—	1492-RCD4D80	—
Operational Voltage		230/400V, 50 Hz		
Pieces per Carton		1	1	1
Diagram				

Dimensions



Note: Dimensions are shown in millimeters unless otherwise noted. Dimensions are not intended to be used for manufacturing purposes.

Auxiliary Devices

Device Description	Diagram	Catalog Number
Dual Auxiliary 2 form C (2-N.O. & 2-N.C.) changeover		1492-ASPHH3
Auxiliary/Signal Auxiliary 1 form C (N.O. & N.C.) changeover Signal 1 form C (N.O. & N.C.) Switches only when device is tripped electrically		1492-ASPHS3

Specifications

Design according to:	IEC/EN 61 008
Certification	VDE, CE
Tripping time	Undelayed; 40 ms for "VFD" type
Rated voltage	230/400V, 50 Hz
Rated tripping current	30, 100, 300, 500 mA
Sensitivity	AC and pulsating DC
Rated short circuit capability	10 kA with 63 A gG/gL back-up fuse for up to 63 A 10 kA with 80 A gG/gL back-up fuse for 80 A
Maximum back-up fuse for short circuit protection	63 A gG/gL for up to 63 A 80 A gG/gL for 80
Maximum back-up fuse for overload protection	25 A gG/gL (25 A and 40 A devices) 40 A gG/gL (63 A device) 50 A gG/gL (80 A device)
Resistance to climatic conditions	Per IEC/EN 61 008
Degree of protection	Built-in switch IP40
Electrical life	≥ 4000 change-overs
Mechanical life	≥ 10000 change-overs
Mounting	DIN rail
Housing material	Halogen free
Operating temperature	-25°C ... +40°C (non-condensing)
Shipment and short term storage limits	-35°C ... +60°C
Wire size	1.5 ... 35 mm ² copper
Terminal torque	2.4 N•m ≤ 40 A, 3.0 N•m ≥ 63 A
Recommended wire strip length	13 mm

Heat Loss Due to Current

At rated current in Watts

Rated Current	Rated Tripping Current				
	30 mA	100 mA	300 mA	500 mA	
2-pole	16 A	1.2	—	—	—
	25 A	2	1.3	1.3	—
	40 A	5.8	5.4	5.4	—
	63 A	—	—	—	—
	80 A	—	—	—	—

Rated Current	Rated Tripping Current				
	30 mA	100 mA	300 mA	500 mA	
4-pole	16 A	—	—	1.8	1.8
	25 A	3.1	2.8	2.8	2.8
	40 A	9.6	8.4	8.4	8.4
	63 A	10.5	10.5	10.5	10.5
	80 A	11.4	—	11.4	11.4

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