

Compact Residual Current Circuit Breakers – with Overload protection (RCBOs) technical data

Eaton's range of new compact Residual Current Circuit Breakers with integral Overload protection (RCBOs), are manufactured to IEC/EN 61009 and meet the latest European and International standards.

DIN rail mountable in a single module width these RCBOs provide a comprehensive protection solution to a wide range of applications. With standard current ratings from 6A to 45A, in both B and C Type characteristics and a trip sensitivity of 30mA, these devices are the ideal choice for domestic applications.

The Eaton RCBOs suite with the complete range of modular devices, and are for use within Eaton's MEM Memera consumer units and other applications.

These devices will accommodate cables up to 16mm².

Trip Sensitivity 30mA Standard

Provides a high degree of protection against electric shock due to direct and indirect contact. A 30mA RCD will trip within 40mS when a fault current of 150mA is detected.

This type of RCD is required to satisfy the requirements for "Additional Protection" in accordance with BS7671 (IEE wiring regs.) Other sensitivities are available on request.

RCBOs technical data**Specifications**

Product standard	IEC/EN 61009
No of poles	1P & solid N

Mechanical specification

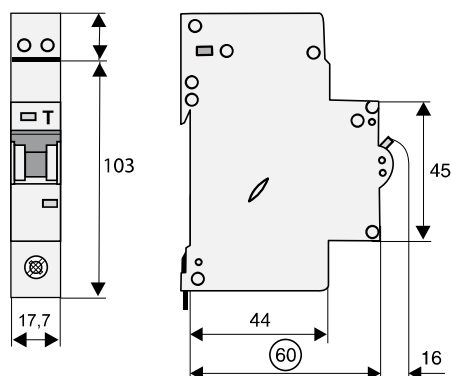
Device width	17.7 mm
Terminal type	Box clamp
Mounting	DIN rail
Degree of protection	IP 20
Positive contact indication	Yes (red/green)

Electrical specification

Rated voltage	230/240 V AC
Current ratings	6, 10, 16, 20, 25, 32, 40, 45A
Rated impulse and withstand voltage	4kV (1.2/50 μ sec)
Rated short circuit capacity	6kA
Sensitivity	AC

Tripping characteristic

Instantaneous Tripping current I_{mt}	Type B: $3 I_n < I_{mt} < 5 I_n$ Type C: $5 I_n < I_{mt} < 10 I_n$
Conventional non tripping current I_{nt}	$1.13 I_n$
Conventional tripping current I_t	$1.45 I_n$
Ref / Calibration temp	40° C
Rated residual tripping current	30mA
Residual tripping type	Instantaneous
Number of operating cycles elec	>4000
Number of operating cycles mech	>20000

RCBOs dimensions (mm)

	LOAD	LINE
Terminal capacity	1–16mm ²	1–25mm ²
Terminal screw	M4	M5
Terminal torque recommended	1.2–1.5Nm	2.0–2.5Nm