

Residual Current Devices

Eaton RCD, RCBO and Add-on RCD solutions from the ACEL Eaton low-voltage switchgear product range. The information below is compiled from the ACEL Eaton Low Voltage Switchgear and Controlgear Price List, effective 10 April 2023.

PRODUCT FAMILY	RANGE / TYPE	SOURCE-SPECIFIED HIGHLIGHTS
RCD	PFIM / 2-pole & 4-pole	IEC/EN 61008; rated current 16–100 A; 30/100/300/500 mA sensitivity; AC and pulsating DC
RCD	Conditionally surge-current-proof, 250 A Type AC	2-pole and 4-pole versions; rated currents 25, 40, 63, 80 and 100 A; 30/100/300 mA variants s
RCBO	PKNM, 10 kA, 1+N pole	Rated current 2–40 A; 196–253 V operational voltage; 10/30/100/300 mA sensitivity; B/C char
Add-on RCD	PBSM	40 A and 63 A versions; combines with a miniature circuit breaker to form an RCBO-type com
Add-on RCD	PBHT	For 80 A or 125 A applications; 2–4 pole configurations; intended for commercial and industria

RCD — PFIM

Eaton PFIM Residual Current Devices are listed as residual-current protection devices designed according to IEC/EN 61008. The source specifies rated-current options from 16 A to 100 A, rated voltage 230/415 V AC, sensitivity options of 30 mA, 100 mA, 300 mA and 500 mA, and sensitivity for AC and pulsating DC. The source also lists types AC, A, G, R, S, A/U/X and related variants.

Parameter	Source specification
Standard	IEC/EN 61008
Rated current	16–100 A
Rated voltage	230/415 V AC
Sensitivity	30 / 100 / 300 / 500 mA
Sensitivity type	AC & pulsating DC
Applications noted	Commercial & Industrial applications

Conditionally Surge-Current-Proof RCD — 250 A, Type AC

The supplied ACEL price-list page shows 2-pole and 4-pole RCD versions with rated currents of 25 A, 40 A, 63 A, 80 A and 100 A, and sensitivity options of 30 mA, 100 mA and 300 mA.

Rated current	Sensitivity shown	Pole options
25 A	30 / 100 / 300 mA	2P / 4P
40 A	30 / 100 / 300 mA	2P / 4P
63 A	30 / 100 / 300 mA	2P / 4P
80 A	30 / 100 / 300 mA	2P / 4P
100 A	30 / 100 / 300 mA	2P / 4P

RCBO — PKNM, 10 kA, 1+N Pole

The supplied ACEL Eaton price list identifies the PKNM RCBO as a 10 kA, 1+N-pole device. The source specifies 2–40 A rated current, 196–253 V operational voltage, 10/30/100/300 mA sensitivity, B and C characteristics, and Type A, C, G and S variants.

Parameter	Source specification
Rated breaking capacity	6 kA & 10 kA
Rated current	2–40 A
Operational voltage	196–253 V
Characteristics	B / C
Sensitivity	10 / 30 / 100 / 300 mA
Types	A / C / G / S
Pole configuration	1+N
DIN rail	3-position DIN rail clip; easy removal from existing busbar
Terminal capacity	1–25 mm ²
Endurance	20,000 operations
Applications noted	Commercial & Industrial applications

Add-on RCD Unit — PBSM

The supplied source lists the PBSM as an add-on residual-current unit, conditionally surge-current-proof at 250 A, Type AC. Rated-current options shown are 40 A and 63 A. The source states that combining the unit with a miniature circuit breaker forms an RCBO (combined RCD/MCB) device.

Rated current	Sensitivity options shown	Pole options
40 A	30 / 100 / 300 / 500 / 1000 mA	2P / 4P
63 A	30 / 100 / 300 / 500 / 1000 mA	2P / 4P

Add-on RCD Unit — PBHT

The source lists the PBHT as an add-on residual-current unit with screw connection, for 80 A or 125 A applications in 2-pole to 4-pole configurations. It is described for combining with miniature circuit breakers and for commercial and industry applications.

Rated current	Sensitivity options shown	Pole options
80 A	30 / 300 / 500 / 1000 mA	2P / 4P
125 A	30 / 300 / 500 / 1000 mA	2P / 4P

Applications

Residential	Commercial	Industrial	Distribution	Infrastructure	Critical/Commercial
Buildings	Buildings	Facilities	Boards	& Utilities	Applications

Source note: This datasheet is a formatted extraction of the RCD/RCBO/Add-on RCD information contained in the supplied ACEL Eaton Low Voltage Switchgear and Controlgear Price List, effective 10 April 2023. It is not an Eaton-issued replacement datasheet. For exact ordering, part-number and current commercial information, refer to the original source document.