

1P+N - 10kA 2 module



P1 RB 1N...



Order code	Trip curve	IEC In	IEC Inc	IEC IΔn	DIN n°	Qty per pkg	Wt
	Type	[A]	[kA]	[mA]	n°	n°	[kg]
Single pole + neutral RCBO type AC.							
P1 RB 1N C06 AC030	C	6	10	30	2	6	0.205
P1 RB 1N C06 AC300	C	6	10	300	2	6	0.205
P1 RB 1N C10 AC030	C	10	10	30	2	6	0.205
P1 RB 1N C10 AC300	C	10	10	300	2	6	0.205
P1 RB 1N C16 AC030	C	16	10	30	2	6	0.205
P1 RB 1N C16 AC300	C	16	10	300	2	6	0.205
P1 RB 1N C20 AC030	C	20	10	30	2	6	0.205
P1 RB 1N C20 AC300	C	20	10	300	2	6	0.205
P1 RB 1N C25 AC030	C	25	10	30	2	6	0.205
P1 RB 1N C25 AC300	C	25	10	300	2	6	0.205
P1 RB 1N C32 AC030	C	32	10	30	2	6	0.205
P1 RB 1N C32 AC300	C	32	10	300	2	6	0.205
P1 RB 1N C40 AC030	C	40	10	30	2	6	0.205
P1 RB 1N C40 AC300	C	40	10	300	2	6	0.205
Single pole + neutral RCBO type A.							
P1 RB 1N C06 A030	C	6	10	30	2	6	0.205
P1 RB 1N C06 A300	C	6	10	300	2	6	0.205
P1 RB 1N C10 A030	C	10	10	30	2	6	0.205
P1 RB 1N C10 A300	C	10	10	300	2	6	0.205
P1 RB 1N C16 A030	C	16	10	30	2	6	0.205
P1 RB 1N C16 A300	C	16	10	300	2	6	0.205
P1 RB 1N C20 A030	C	20	10	30	2	6	0.205
P1 RB 1N C20 A300	C	20	10	300	2	6	0.205
P1 RB 1N C25 A030	C	25	10	30	2	6	0.205
P1 RB 1N C25 A300	C	25	10	300	2	6	0.205
P1 RB 1N C32 A030	C	32	10	30	2	6	0.205
P1 RB 1N C32 A300	C	32	10	300	2	6	0.205
P1 RB 1N C40 A030	C	40	10	30	2	6	0.205
P1 RB 1N C40 A300	C	40	10	300	2	6	0.205

General characteristics

These RCBOs perform both to protect in cases detect and trip the event of residual current and to protect circuits in case of short circuits and overcurrent. From a practical point of view, RCBOs integrate both functions of MCB and of RCCB.

They have a **C-type** trip characteristic (instantaneous trip 5-10 times I_n) and are used for inductive loads (mixed loads, resistive and inductive with low inrush current). In addition, they have a rated residual current ($I_{\Delta n}$) of either 30mA or 300mA and are available with two different versions of residual current tripping type AC or A as described on page 13-8.

Main features include:

- IEC rated current I_n : 6-40A
- Version: single pole + neutral
- Contact status with flag indicator
- Trip characteristic: Curve type C
- Fixing on 35mm DIN rail (IEC/EN 60715).

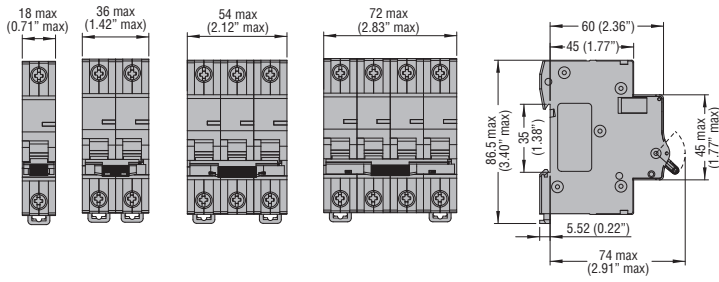
Operational characteristics

- Dissipation per pole: 3-13W
- IEC rated insulation voltage U_i : 400V
- IEC rated impulse voltage U_{imp} : 4kV
- Normal operating voltage U_c : 230VAC
- IEC rated residual operating voltage $I_{\Delta n}$: 30mA or 300mA
- IEC rated short-circuit capacity I_{cn} : 10kA.

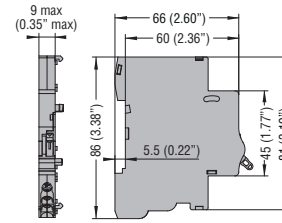
Certifications and compliance

Certifications obtained: TÜV – Rheinland.
Compliant with standards: IEC/EN 61009-1.

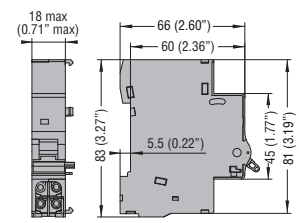
MINIATURE CIRCUIT BREAKERS P1 MB...



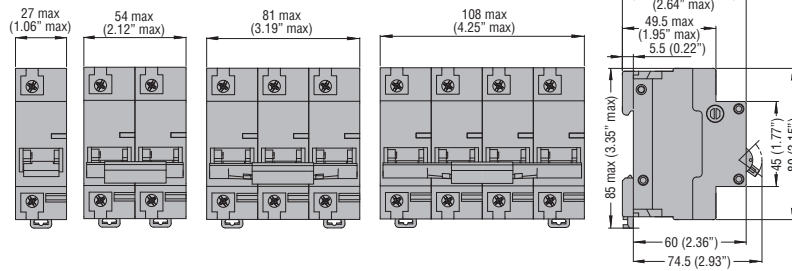
ACCESSORIES Add-on contacts P1X 1011 P1X 1311



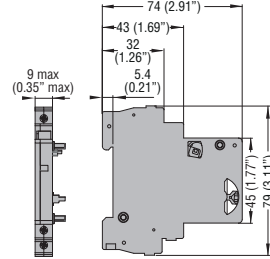
Undervoltage and shunt releases P1X 14230 P1X 16230



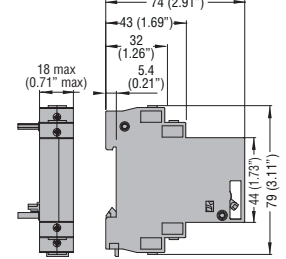
MINIATURE CIRCUIT BREAKERS P2 MB...



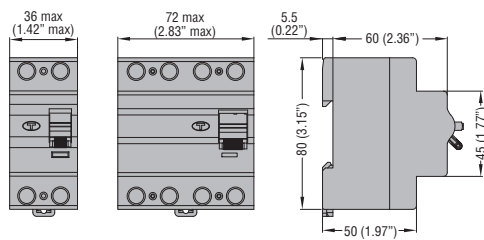
ACCESSORIES Add-on contacts P2X 1011 P2X 1311



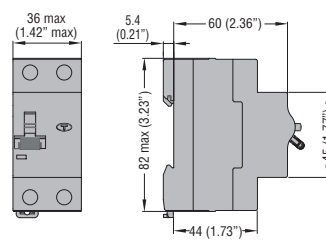
Undervoltage and shunt releases P2X 14230



RESIDUAL CURRENT OPERATED CIRCUIT BREAKERS P1 RC...

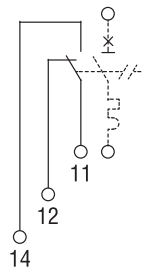


RESIDUAL CURRENT OPERATED CIRCUIT BREAKERS WITH OVERCURRENT PROTECTION P1 RB...

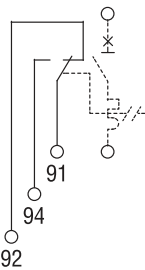


Wiring diagrams

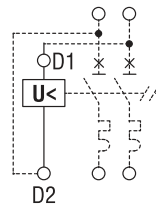
P1X 1011 P2X 1011



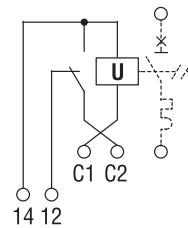
P1X 1311 P2X 1311



P1X 14230



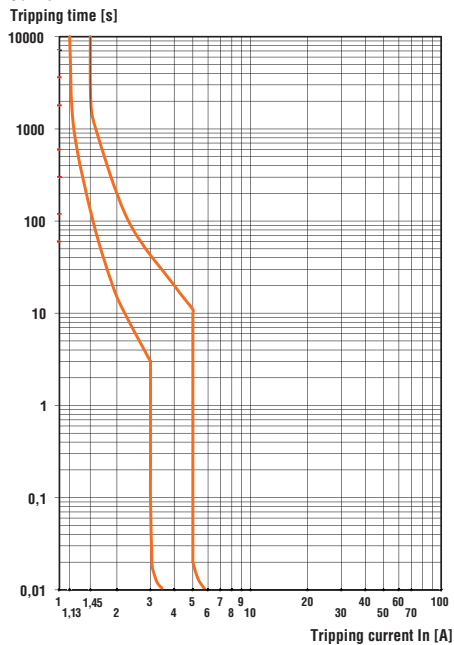
P1X 16230 P2X 16230



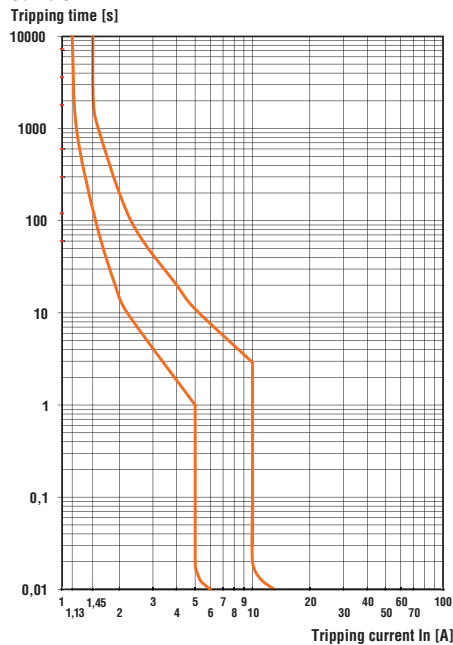
TYPE		P1 MB	P2 MB	P1 RC	P1 RB	
Standards		IEC/EN 60898, IEC/EN 60947-2	IEC/EN 60947-2	IEC/EN 61008-1	IEC/EN 61009-1	
IEC rated insulation voltage U_i	V	440	400	400	400	
IEC rated impulse withstand voltage U_{imp}	kV	4	4	4	4	
IEC rated operational voltage U_e	in AC	230 (1P, 1P+N) / 230/400 (2P, 3P, 4P)	230 (1P) / 230/400 (2P, 3P, 4P)	230 (2P) / 230/400(4P)	230	
	in DC	60 (1P) / 80 (2P)	60	—	—	
Rated frequency	Hz	50/60	50/60	50/60	50/60	
Maximum rated current	A	63	125	63	40	
Available rated current for types	A	1, 2, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63	80, 100, 125	25, 40, 63	6, 10, 16, 20, 25, 32, 40	
Versions		1P, 1P+N, 2P, 3P, 4P	1P, 2P, 3P, 4P	2P, 4P	1P+N	
IEC instantaneous tripping (tripping characteristic)		Curve B: 3-5 I_n Curve C: 5-10 I_n Curve D: 10-14 I_n	Curve C: 5-10 I_n Curve D: 10-14 I_n	—	Curve C: 5-10 I_n	
IEC residual current operating characteristic		—	—	AC, A	AC, A	
IEC rated residual operating current $I_{\Delta n}$	mA	—	—	30, 300	30, 300	
Short circuit capacity	kA	10 (6kA 1P+N)	10	—	10	
Mechanical life	cycles	20,000	10,000	20,000	20,000	
	Nm	2	3	2	2	
	lbin	15	26	15	15	
Maximum tightening torque of terminals	Tool	Pz2	Pz2	Pz2	Pz2	
Conductor section min-max	mm ²	1-16	2.5-50	1-35	1-25	
	AWG	14-6	14-1/0	16-2	16-3	
AMBIENT CONDITIONS						
Temperature	Operating	°C	-35...+70	-35...+75	-25...+55	-25...+40
	Storage	°C	-40...+80	-40...+80	-35...+60	-35...+60
Maximum altitude	m	2,000	2,000	2,000	2,000	
Pollution degree		2	3	2	2	
Mounting		35mm DIN rail (IEC/EN 60715)				

TRIP CHARACTERISTICS (Thermal - magnetic overcurrent type)

Curve B



Curve C



Curve D

