

Miniature and residual circuit breakers



- UL 1077 and UL 489 certified versions
- High breaking capacity
- Various trip characteristic curves: Type B, C or D
- Wide 1...125A current range
- Residuals with trip characteristic curves type A, AC and B
- Switch disconnectors
- Accessories available.

Miniature circuit breakers 1...63A, UL 1077

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Miniature circuit breakers 1...63A, UL 489

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Miniature circuit breakers 80...125A, UL 1077

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MINIATURE CIRCUIT BREAKERS UP TO 63A

- 1P, 1P+N, 2P, 3P and 4P versions
- IEC rated current In: 1...63A
- IEC short-circuit breaking capacity Icn: 10kA (6kA for 1P+N)
- Trip characteristic curve: Type B, C, D
- UL 1077 or UL 489 certified versions.



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MINIATURE CIRCUIT BREAKERS 80...125A

- 1P, 2P, 3P and 4P versions
- IEC rated current In: 80...125A
- IEC short-circuit breaking capacity Icn: 10kA
- Trip characteristic curve: Type C, D
- UL 1077 certified versions.



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ADD-ON BLOCKS AND ACCESSORIES

- Auxiliary and indicator contacts
- Undervoltage trip releases
- Shunt trip releases
- Connection accessories.



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SWITCH DISCONNECTORS

- 1P, 2P, 3P and 4P versions
- IEC rated current In: 32...125A
- Clear OFF contact status indication
- Auxiliary contact block available.



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RESIDUAL BLOCKS FOR CIRCUIT BREAKERS UP TO 63A

- 2P, 3P and 4P versions
- IEC rated current In: 40 and 63A
- Residual current: 30 and 300mA
- Residual current operating characteristic: Type A.



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RESIDUAL CURRENT OPERATED CIRCUIT BREAKERS 25...63A

- 2P and 4P versions
- IEC rated current In: 25, 40 and 63A
- IEC rated residual operating current $I_{\Delta n}$: 30mA and 300mA
- Residual current operating characteristic: Type A, B and AC
- Auxiliary contact and signalling contact blocks available.



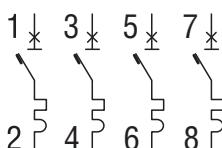
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RESIDUAL CURRENT OPERATED CIRCUIT BREAKERS WITH OVERCURRENT PROTECTION UP TO 40A

- 1P+N versions
- IEC rated current In: 6...40A
- IEC rated short-circuit capacity Icn: 10kA
- Trip characteristic curve: Type C
- Residual current: 30 and 300mA
- Residual current operating characteristic: Type AC and A
- Auxiliary contact and signalling contact blocks available.

**4P - 10kA (IEC/EN/BS)
4 modules**


P1MB4P...



Order code	Curve	IEC In	IEC Icn	Nº of DIN module	Qty per pkg	Wt
	[A]	[kA]	n°	n°	[kg]	

Four pole, thermal and magnetic trip type, B-curve characteristic.

P1MB4PB01	B	1	10	4	3	0.460
P1MB4PB02	B	2	10	4	3	0.460
P1MB4PB04	B	4	10	4	3	0.460
P1MB4PB06	B	6	10	4	3	0.460
P1MB4PB10	B	10	10	4	3	0.460
P1MB4PB13	B	13	10	4	3	0.460
P1MB4PB16	B	16	10	4	3	0.460
P1MB4PB20	B	20	10	4	3	0.460
P1MB4PB25	B	25	10	4	3	0.460
P1MB4PB32	B	32	10	4	3	0.460
P1MB4PB40	B	40	10	4	3	0.460
P1MB4PB50	B	50	10	4	3	0.460
P1MB4PB63	B	63	10	4	3	0.460

Four pole, thermal and magnetic trip type, C-curve characteristic.

P1MB4PC01	C	1	10	4	3	0.460
P1MB4PC02	C	2	10	4	3	0.460
P1MB4PC04	C	4	10	4	3	0.460
P1MB4PC06	C	6	10	4	3	0.460
P1MB4PC10	C	10	10	4	3	0.460
P1MB4PC13	C	13	10	4	3	0.460
P1MB4PC16	C	16	10	4	3	0.460
P1MB4PC20	C	20	10	4	3	0.460
P1MB4PC25	C	25	10	4	3	0.460
P1MB4PC32	C	32	10	4	3	0.460
P1MB4PC40	C	40	10	4	3	0.460
P1MB4PC50	C	50	10	4	3	0.460
P1MB4PC63	C	63	10	4	3	0.460

Four pole, thermal and magnetic trip type, D-curve characteristic.

P1MB4PD01	D	1	10	4	3	0.460
P1MB4PD02	D	2	10	4	3	0.460
P1MB4PD04	D	4	10	4	3	0.460
P1MB4PD06	D	6	10	4	3	0.460
P1MB4PD10	D	10	10	4	3	0.460
P1MB4PD13	D	13	10	4	3	0.460
P1MB4PD16	D	16	10	4	3	0.460
P1MB4PD20	D	20	10	4	3	0.460
P1MB4PD25	D	25	10	4	3	0.460
P1MB4PD32	D	32	10	4	3	0.460
P1MB4PD40	D	40	10	4	3	0.460
P1MB4PD50	D	50	10	4	3	0.460
P1MB4PD63	D	63	10	4	3	0.460

General characteristics

These devices are used to protect against short circuits and overloads of wiring installations and loads in panel boards, office buildings, stores and similar applications.

Their purpose is circuit protection, circuit isolation and load operation controls. They have characteristics of instantaneous trip defined as follows:

- B-curve: instantaneous trip 3...5 times I_n for non-inductive or low inductive loads (heating resistors, generators, very long wire lines)
- C-curve: instantaneous trip 5...10 times I_n for inductive loads (mixed loads, resistive and inductive with low inrush current)
- D-curve: instantaneous trip 10...14 times I_n for highly inductive loads (loads with high inrush and current such as motors).

Main features include:

- IEC rated current I_n : 1...63A
- Pole width: 17.5mm / 0.69"
- Contact status with flag indicator
- Trip characteristic: curve type B, C and D
- Auxiliary contacts and trip releases mounted on left side
- Fixing on 35mm DIN rail (IEC/EN/BS 60715).

Operational characteristics

- Dissipation per pole: 3...13W
- IEC rated insulation voltage U_i : 440V
- IEC rated impulse voltage U_{imp} : 4kV
- IEC rated operational voltage U_e : 230/400VAC
- UL 1077 rated operational voltage: 480VAC
- Short circuit breaking capacity: IEC/EN/BS 10kA - UL 7.5kA 480V.

Certifications and compliance

Certifications obtained: cURus (E369585); EAC; TÜV-Rheinland.

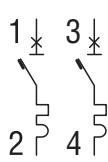
Compliant with standards: IEC/EN/BS 60898-1, IEC/EN/BS 60947-2, UL 1077, CSA C22.2 n°235.

**1P, 2P, 3P and 4P - 10kA
(IEC/EN/BS)**

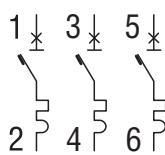

P2MB1P...



P2MB2P...



P2MB3P...



Order code	Curve	IEC In	IEC Icn	Nº of DIN module	Qty per pkg	Wt
	[A]	[kA]		no.	no.	[kg]

One pole, thermal and magnetic trip type, C-curve characteristic.

P2MB1PC080 C 80 10 1.5 9 0.166

P2MB1PC100 C 100 10 1.5 9 0.166

P2MB1PC125 C 125 10 1.5 9 0.166

Two pole, thermal and magnetic trip type, C-curve characteristic.

P2MB2PC080 C 80 10 3 4 0.340

P2MB2PC100 C 100 10 3 4 0.340

P2MB2PC125 C 125 10 3 4 0.340

Three pole, thermal and magnetic trip type, C-curve characteristic.

P2MB3PC080 C 80 10 4.5 3 0.510

P2MB3PC100 C 100 10 4.5 3 0.510

P2MB3PC125 C 125 10 4.5 3 0.510

Four pole, thermal and magnetic trip type, C-curve characteristic.

P2MB4PC080 C 80 10 6 2 0.680

P2MB4PC100 C 100 10 6 2 0.680

P2MB4PC125 C 125 10 6 2 0.680

Three pole, thermal and magnetic trip type, D-curve characteristic.

P2MB3PD080 D 80 10 4.5 3 0.510

P2MB3PD100 D 100 10 4.5 3 0.510

P2MB3PD125 D 125 10 4.5 3 0.510

Four pole, thermal and magnetic trip type, D-curve characteristic.

P2MB4PD080 D 80 10 6 2 0.510

P2MB4PD100 D 100 10 6 2 0.510

P2MB4PD125 D 125 10 6 2 0.510

● Icn at 230V.

General characteristics

These devices are used to protect against short circuits and overloads of wiring installations and loads in panel boards, office buildings, stores and similar applications.

Their purpose is circuit protection, circuit isolation and load operation controls. They have characteristics of instantaneous trip defined as follows:

- C-curve: instantaneous trip 5...10 times In for inductive loads (mixed loads, resistive and inductive with low inrush current)
- D-curve: instantaneous trip 10...14 times In for highly inductive loads (loads with high inrush and current such as motors).

Main features include:

- IEC rated current In: 80...125A
- Pole width: 27mm / 1.06"
- Contact status with flag indicator
- Trip characteristic: curve type C and D
- Fixing on 35mm DIN rail (IEC/EN/BS 60715).

Operational characteristics

- Dissipation per pole: 15...20W
- IEC rated insulation voltage Ui: 400V
- IEC rated impulse voltage Uimp: 4kV
- IEC rated operational voltage Ue: 230/400VAC (230VAC 1P version)
- Short circuit breaking capacity: IEC/EN/BS 10kA - UL 5kA 240V (1P) - 5kA 480V (2-3-4P).

Certifications and compliance

Certifications obtained: cURus (E369585); EAC; TÜV-Rheinland.

Compliant with standards: IEC/EN/BS 60898-1, IEC/EN/BS 60947-2, UL 1077, CSA C22.2 n°235.

Add-on blocks for miniature circuit breakers 1...63A



P1X1011



P1X16...

Order code	Description	Qty per MCB	Qty per pkg	Wt
		n°	n°	[kg]
Auxiliary contact.				
P1X1011●	1 changeover contact for P1MB...	1	12	0.040
P1X1011UH	1 changeover contact for P1MBU...	1	12	0.040
Indicator contact for thermal-magnetic trip.				
P1X1311●	1 changeover contact	1	12	0.040
Undervoltage trip release.				
P1X14230●	230V 50/60Hz	1	8	0.070
Shunt trip release.				
P1X16230●	110...415V 50/60Hz	1	8	0.070
P1X16024●	12...24VDC 50/60Hz	1	8	0.070

● Not suitable for P1MBU...

Add-on blocks for miniature circuit breakers 80...125A



P2X1311



P2X16230

Order code	Description	Qty per MCB	Qty per pkg	Wt
		n°	n°	[kg]
Auxiliary contact.				
P2X1011	1 changeover contact	1	10	0.040
Indicator contact for thermal-magnetic trip.				
P2X1311	1 changeover contact	1	10	0.040
Shunt trip release.				
P2X16230	110...415V 50/60Hz	1	8	0.070

General characteristics

- Auxiliary and indicator contact width: 9mm/0.35" (0.5 module)
- Undervoltage and shunt trip release width: 18mm/0.71" (1 module)
- Maximum combination: 3 add-on blocks on MCB left side only of which 1 undervoltage or shunt release directly on MCB side and then 2 contacts of which 1 auxiliary and 1 indicator.

Operational characteristics

- IEC rated impulse voltage Uimp: 4kV
- IEC rated operational current in AC: 6A 230V; 3A 400V (auxiliary contacts).

Certifications and compliance

Certifications obtained: EAC, cULus (excluding P1X14230 and P1X16024).

Compliant with standards: IEC/EN/BS 60947-5-1, CSA C22.2 n° 5.

General characteristics

- Auxiliary and indicator contact width: 9mm/0.35" (0.5 module)
- Shunt trip release width: 17.5mm/0.69" (1 module)
- Maximum combination: 3 add-on blocks on MCB sides of which 1 undervoltage or shunt release on MCB right side and 2 contacts on the left of which 1 auxiliary and 1 indicator.

Operational characteristics

- IEC rated insulation voltage Ui: 500V
- Rated impulse voltage Uimp: 4kV
- Rated operational current in AC: 6A 230V; 3A 400V (auxiliary contacts).

Certifications and compliance

Certifications obtained: EAC.

Compliant with standards: IEC/EN/BS 60947-5-1.

Switch disconnectors.
Residual blocks

Switch disconnectors



P1MS1P...



P1MS2P...



P1MS3P...



P1MS4P...

new

Add-on blocks for switch disconnectors P1MS...



P1X1011S



P1X1810

Residual blocks



P1RA2P...



P1RA3P...

Order code	Ie	N° of DIN module	Qty per pkg	Wt
	[A]	n°	n°	[kg]
Modular switch disconnectors - 1P.				
P1MS1P032	32	1	12	0.083
P1MS1P040	40	1	12	0.083
P1MS1P063	63	1	12	0.083
P1MS1P100	100	1	12	0.083
P1MS1P125	125	1	12	0.083
Modular switch disconnectors - 2P.				
P1MS2P032	32	2	6	0.170
P1MS2P040	40	2	6	0.170
P1MS2P063	63	2	6	0.170
P1MS2P100	100	2	6	0.170
P1MS2P125	125	2	6	0.170
Modular switch disconnectors - 3P.				
P1MS3P032	32	3	4	0.250
P1MS3P040	40	3	4	0.250
P1MS3P063	63	3	4	0.250
P1MS3P100	100	3	4	0.250
P1MS3P125	125	3	4	0.250
Modular switch disconnectors - 4P.				
P1MS4P032	32	4	3	0.330
P1MS4P040	40	4	3	0.330
P1MS4P063	63	4	3	0.330
P1MS4P100	100	4	3	0.330
P1MS4P125	125	4	3	0.330

General characteristics

These devices are mainly used for disconnection and insulation of power lines and systems. They can also be used to switch various types of resistive and inductive loads.

Main features include:

- IEC rated current In: 32...125A
- Pole width: 17.5mm / 0.69"
- Clear contact status indication
- Wide terminals for easy wiring
- Auxiliary contacts can be mounted on left side and padlockable attachment
- Fixing on 35mm DIN rail (IEC/EN/BS 60715).

Operational characteristics

- Utilisation category: AC-22A
- IEC rated insulation voltage Ui: 1000V
- IEC rated impulse voltage Uimp: 4kV
- IEC rated operational voltage Ue: 1P 230...240V; 2P, 3P, 4P 400...440V
- IEC rated short-time withstand current Icw: 12xIn (for 1 second).

Certifications and compliance

Certifications obtained: TÜV-Rheinland, EAC.
Compliant with standards: IEC/EN/BS 60947-3.

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Operational characteristics (auxiliary contact)

- Utilisation category AC-12: 6A 230V; 3A 400V
- Utilisation category DC-12: 0.4A 250V; 6A 24V.

General characteristics

These devices are intended for the protection of people against indirect contact (electric shock) and of installations against fire hazards due to a persistent earth/ground fault current.

They snap onto the P1MB... series thermal-magnetic circuit breakers; this combination forms a single device to protect people, protect against fire and protect lines.

Operational characteristics

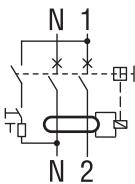
- IEC rated insulation voltage Ui: 400V
- IEC rated impulse voltage Uimp: 4kV
- IEC rated frequency: 50/60Hz
- IEC rated operational voltage Ue: 230/400V
- IEC rated residual current for tripping ΔIn : 30mA; 300mA
- Dissipation per pole: 1.6W (40A), 2.7W (63A).

Certifications and compliance

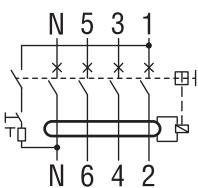
Compliance with standards: IEC/EN/BS 61009-1.
Certifications obtained: TÜV-SUD, EAC.

**2P - 2 modules
4P - 4 modules**


P1RD2P...

**new**

P1RD4P...



P1RC4PB...

Add-on blocks for P1RD...

P1X1011

P1X16...

Order code	Description	Qty per MCB	Qty per pkg	Wt
		n°	n°	[kg]

Auxiliary contact.

P1X1011	1 changeover contact	1	12	0.040
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Indicator contact for trip.

P1X1311	1 changeover contact	1	12	0.040
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Undervoltage trip release.

P1X14230	230V 50/60Hz	1	8	0.070
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Shunt trip release.

P1X16230	110...415V 50/60Hz	1	8	0.070
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Padlockable attachment

P1X1810	Padlockable attachment for breaker control lever	1	10	0.001
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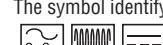
General characteristics

These RCCBs are intended for the protection of people against indirect contact (electric shock) and of installations against fire hazards due to a persistent earth/ground fault current. Specifically to prevent electric shock, RCCBs must be rated with a rated residual current ($I\Delta n$) not exceeding 30mA so that these devices trip in the case of earth/ground fault only. They usually are connected in series with thermal-magnetic breakers which assure short circuit and overcurrent protection too. P1RC types have a $I\Delta n$ of either 30mA or 300mA and are available with three different versions of residual current tripping, as follows:

Type AC – Tripping for earth/ground fault is ensured “for residual sinusoidal alternating currents, suddenly applied or slowly rising”. The symbol identifying Type AC is the following:

Type A – Tripping for earth/ground fault is ensured “for residual sinusoidal alternating currents and pulsating direct currents, suddenly applied or slowly rising”. In addition to the protection given by Type AC, this version protects against residual current with pulsating waveform. This can be caused by circuits connected with electronic equipment. The symbol identifying Type A is the following:

Type B – tripping is ensured for all conditions already covered by types AC and A. They also ensure tripping for high-frequency leakage currents up to 1000Hz and direct currents. They are particularly suitable for applications with inverters, UPSs and electric vehicle charging stations. The symbol identifying Type B is the following:



Main features include:

- IEC rated current In: 25A, 40A and 63A
- Versions: 2P and 4P
- Type of operation: AC, A and B
- Pole width: 17.5mm / 0.69"
- Contact status with flag indicator
- Fixing on 35mm DIN rail (IEC/EN/BS 60715).

Operational characteristics

- Dissipation per pole:
 - 1.1W for P1RC2/4P25... type AC or A
 - 2.9W for P1RC2/4P40... type AC, A or B
 - 7.2W for P1RC2/4P63... type AC, A or B
 - 9.7W for P1RC4P80... type B
- IEC rated insulation voltage Ui : 400V
- IEC rated impulse voltage $Uimp$: 4kV
- IEC rated frequency: 50/60Hz
- IEC rated operational voltage Uc : 230VAC for 2P; 230/400VAC for 4P
- IEC rated residual operating voltage Ue : $I\Delta n$: 30mA; 300mA
- IEC short-circuit breaking capacity Icn : 10kA

Certifications and compliance

Certifications obtained: TÜV-Rheinland (types AC and A), EAC. Compliant with standards: IEC/EN/BS 61008-1, IEC/EN/BS 61008-2-1 (all types); IEC/EN/BS 62423 (type B).

General characteristics

- Auxiliary and indicator contact width: 9mm/0.35" (0.5 module)
- Undervoltage and shunt trip release width: 18mm/0.71" (1 module)
- Maximum combination: 3 add-on blocks on MCB left side only of which 1 undervoltage or shunt release directly on MCB side and then 2 contacts of which 1 auxiliary and 1 indicator.

Operational characteristics

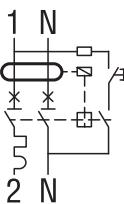
- IEC rated impulse voltage $Uimp$: 4kV
- IEC rated operational current in AC: 6A 230V; 3A 400V (auxiliary contacts).

Certifications and compliance

Certifications obtained: EAC, cULus (excluding P1X14230 and P1X16024). Compliant with standards: IEC/EN/BS 60947-5-1, CSA C22.2 n° 5.

**1P+N - 10kA
2 modules**


P1RE1N...

**new**

Order code	Curve	IEC In	IEC Icn	IEC $I\Delta n$	Mod. DIN	Qty per pkg	Wt [kg]
		[A]	[kA]	[mA]	n°	n°	
Single pole + neutral RCBO type AC.							
P1RE1NC06AC030	C	6	10	30	2	1	0.205
P1RE1NC06AC300	C	6	10	300	2	1	0.205
P1RE1NC10AC030	C	10	10	30	2	1	0.205
P1RE1NC10AC300	C	10	10	300	2	1	0.205
P1RE1NC16AC030	C	16	10	30	2	1	0.205
P1RE1NC16AC300	C	16	10	300	2	1	0.205
P1RE1NC20AC030	C	20	10	30	2	1	0.205
P1RE1NC20AC300	C	20	10	300	2	1	0.205
P1RE1NC25AC030	C	25	10	30	2	1	0.205
P1RE1NC25AC300	C	25	10	300	2	1	0.205
P1RE1NC32AC030	C	32	10	30	2	1	0.205
P1RE1NC32AC300	C	32	10	300	2	1	0.205
P1RE1NC40AC030	C	40	10	30	2	1	0.205
P1RE1NC40AC300	C	40	10	300	2	1	0.205

Add-on blocks for P1RE...


P1X1011



P1X16...

Order code	Description	Qty per MCB	Qty per pkg	Wt [kg]
		n°	n°	
Auxiliary contact.				
P1X1011	1 changeover contact	1	12	0.040
Indicator contact for trip.				
P1X1311	1 changeover contact	1	12	0.040
Undervoltage trip release.				
P1X14230	230V 50/60Hz	1	8	0.070
Shunt trip release.				
P1X16230	110...415V 50/60Hz	1	8	0.070
P1X16024	12...24VDC 50/60Hz	1	8	0.070
Padlockable attachment				
P1X1810	Padlockable attachment for breaker control lever	1	10	0.001

General characteristics

These devices both detect and trip in the event of residual current and protect circuits in the case of short circuits and overcurrent. From a practical point of view, they integrate both functions of MCB and 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 14-14.

Its main features are:

- IEC rated current I_n : 6...40A
- Version: 1P+N
- Contact status with flag indicator
- Double control lever to distinguish the residual current tripping from short circuit or overcurrent tripping
- Trip characteristic: curve type C
- Fixing on 35mm DIN rail (IEC/EN/BS 60715).

Operational characteristics

- Dissipation per pole: 3...13W
- Rated insulation voltage U_i : 400V
- Rated impulse voltage U_{imp} : 4kV
- Operating frequency: 50/60Hz
- Rated operational voltage U_e : 230VAC
- Rated residual operating voltage $I_{\Delta n}$: 30mA; 300mA
- IEC short-circuit breaking capacity I_{cn} : 10kA

Certifications and compliance

Certifications obtained: TUV Rheinland, EAC. Compliant with standards: IEC/EN/BS 61009-1, IEC/EN/BS 61009-2-1.

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General characteristics

- Auxiliary and indicator contact width: 9mm/0.35" (0.5 module)
- Undervoltage and shunt trip release width: 18mm/0.71" (1 module)
- Maximum combination: 3 add-on blocks on MCB left side only of which 1 undervoltage or shunt release directly on MCB side and then 2 contacts of which 1 auxiliary and 1 indicator.

Operational characteristics

- IEC rated impulse voltage U_{imp} : 4kV
- IEC rated operational current in AC: 6A 230V; 3A 400V (auxiliary contacts).

Certifications and compliance

Certifications obtained: EAC, cULus (excluding P1X14230 and P1X16024). Compliant with standards: IEC/EN/BS 60947-5-1, CSA C22.2 n° 5.

14 Miniature and residual circuit breakers

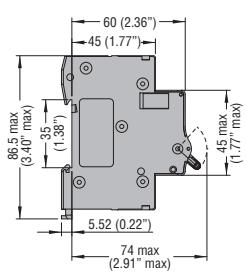
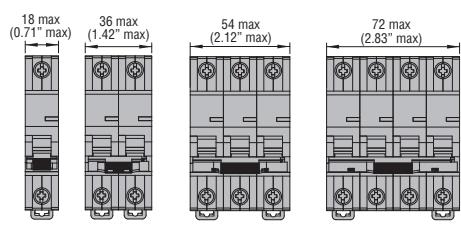
INDEX

Lovato
electric

Dimensions [mm (in)]

MINIATURE CIRCUIT BREAKERS

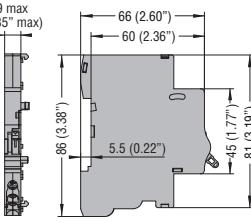
P1MB...



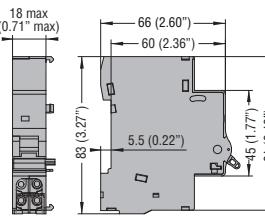
ACCESSORIES

Add-on contacts

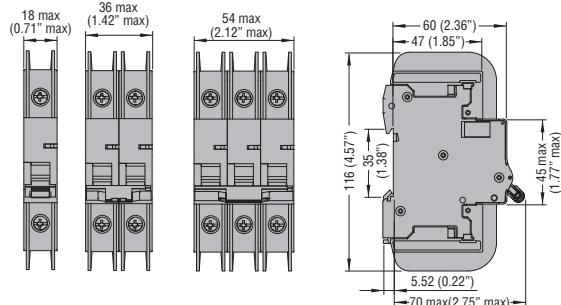
P1X1011 - P1X0111S -
P1X1011UH - P1X1311



Undervoltage and shunt releases
P1X14230 - P1X16...

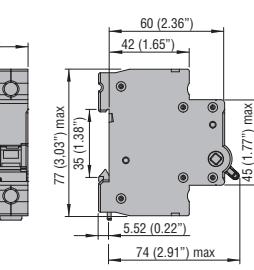
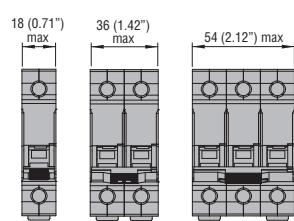


P1MBUH... - P1MBUL....



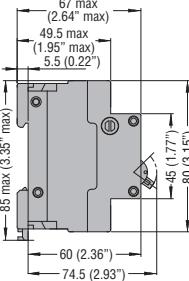
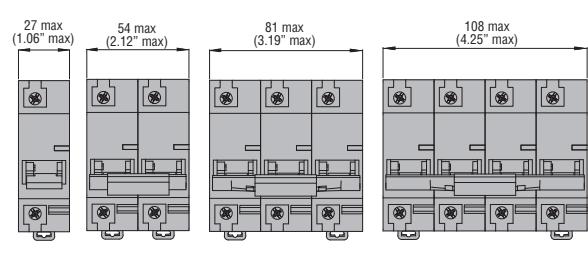
SWITCH DISCONNECTORS

P1MS....



MINIATURE CIRCUIT BREAKERS

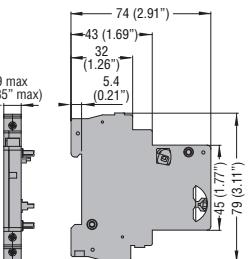
P2MB...



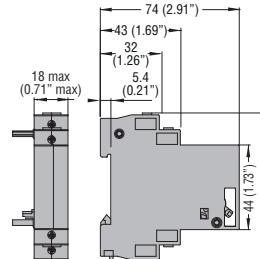
ACCESSORIES

Add-on contacts

P2X1011 - P2X1311

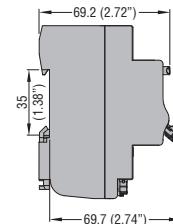
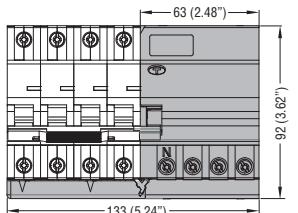
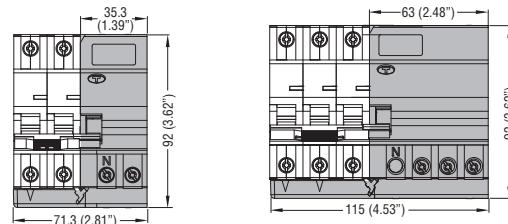


Shunt release
P2X16230



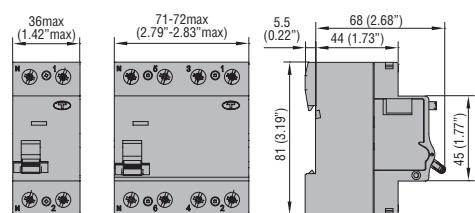
RESIDUAL BLOCKS

P1RA



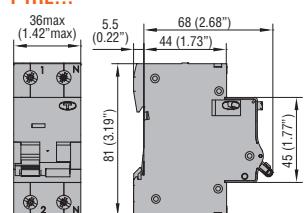
RESIDUAL CURRENT OPERATED CIRCUIT BREAKERS

P1RD...



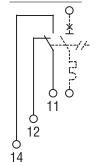
RESIDUAL CURRENT OPERATED CIRCUIT BREAKERS WITH OVERCURRENT PROTECTION

P1RE...

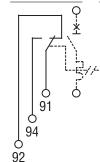


Wiring diagrams

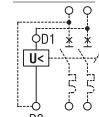
P1X1011 - P1X1011S - P1X1011UH - P2X1011



P1X1311 - P2X1311



P1X14230



P1X16... - P2X16230

