

RECmaxLPd-D2-6, Motorized circuit breaker, 2-pole D-curve

- Code: P2A130.
- > Poles: 2
- > In (A): 6 A
- > Breaking element: built-in
- > Curve: D

### Description

Self-resetting cut-off device with circuit breaker and ultra-immunised residual current protection. Programmable unit with display, which measures leakage currents (residual current protection), and orders the disconnection or reclosing of the circuit breaker (circuit breaker protection) by means of a motor that regulates it mechanically. Measuring the leakage current,  $I\Delta$ , requires an external residual current transformer, which is supplied separately. The assembly is regularly used in single-phase and three-phase electrical installations that require high continuity of the electric supply. It has inputs/outputs which provide information and control of the state of the electrical installation in which it is working. LED display and backlit (LCD) display:

- Residual current protection/reclosing parameters.
- Protection trip current intensity.
- Number of reclosures
- Protection status messages, etc.

### Application

The **RECmax LPd**, linked with the **WGC** toroidal transformers, ensures earth-leakage and circuit-breaker protection with self-reclosing after an residual current, overload or short-circuit trip. It is a good solution for infrastructures that are difficult to control and monitor due to their location in the following electric panels:

- Telephony systems
- DTT systems
- Computer systems, UPS

## Circutor



Residual current circuit breaker with self-reclosing system

Code: P2A130.

### Specifications

Size (nm) width x height x depth79 x 110 x 83 (nm)ErwelopePlastic V0FasteningDIN railWeight (kg)0,43Erweronmental characteristicsProtection classProtection classIP 20, IP 41 (rear panel)Relative humidity (without condensation)5 95 %Storage temperature-40 +75 °CWorking temperature-20 +70 °CBetarderdsIE CTR 60755, IEC 60898-1, DIN EN 50022, IEC 60947-2-MStandardsIEC TR 60755, IEC 60898-1, DIN EN 50022, IEC 60947-2-MLED2 LEDKeyboard3 keysDisplay typeLCDDisplay typeLCDEvertication characteristicsSensitivity (Ich), AOo3 (gor defecto) / 0,1 - 0,3 - 0,5 - 1A (programable)ProtectionTip delay (IEC 60947-2-M) INS / SEL	AC power supply			
Frequency     50/60 Hz       Nominal voltage     230V - ± 30%       echonical characteristics     92 N10 × 83 (mm)       Envelope     Plostc V0       Envelope     Plostc V0       Fashening     DM rail       Weight (tg)     0.43       Antonemal characteristics     50.95 %       Protection class     P20.1P41 (rear panel)       Relative humidity (without condensation)     50.95 %       Storage temperature     -0+25 °C       Working temperature     200       Storage temperature     200 <th>Installation category</th> <th>CAT III 300 V</th>	Installation category	CAT III 300 V		
Nominal voltage230V 4 10 %3Achanical characteristicsSize (mm) with n keight x depth79 x 110 x 83 (mm)EnvelopePastic V0Fastening0N railWeight (kg)0.43Aradrometal characteristicsProtection class19 20,1P 41 (rear panel)Relative humidity (without condensation)595 %Storage temperature-40	Consumption	5 VA		
kechanical characteristics     9 × 10 × 83 (mm)       Size (mm) with x height x depth     9 × 10 × 83 (mm)       Envelope     Plaste V0       Bastening     0.10 r all       Weight (kg)     0.43       Arwonnetal characteristics     P 20.1P 41 (rear panel)       Protection class     P 20.1P 41 (rear panel)       Relative humidity (without condensation)     5	Frequency	50/60 Hz		
Size (mm) width x height x depth79 x 110 x 83 (mm)EnvelopePlostic V0ExteningUIN railWeight (kg)0.43Anvironmental characteristicsProtection classProtection classIP 20, IP 41 (rear panel)Relative humidity (without condensation)5 95 %Storage temperature-40 +75 °CWorking temperature-20 +70 °CRelative humidity (without condensation)200Storage temperature2000StandardsIEC TR 60755, IEC 60898-1, DIN EN 50022, IEC 60947-2-MStandards2 LEDLeber interface2 LEDLED3 keysDisplay Upe0,03 (por defecto) / 0,1 - 0,3 - 0,5 - 1 A (programable)Display UpeDisplay Leber 2-2-M (INS / SELSensitivity (Lin), A0,03 (por defecto) / 0,1 - 0,3 - 0,5 - 1 A (programable)Delay time (Lin)N03 (por defecto) / 0,1 - 0,3 - 0,5 - 1 A (programable)Delay time (Lin)0,03 (por defecto) / 0,1 - 0,3 - 0,5 - 1 A (programable)Delay time (Lin)0,03 (por defecto) / 0,1 - 0,3 - 0,5 - 1 A (programable)Delay time (Lin)0,03 (por defecto) / 0,1 - 0,3 - 0,5 - 1 A (programable)Delay time (Lin)0,03 (por defecto) / 0,1 - 0,3 - 0,5 - 1 A (programable)Delay time (Lin)0,03 (por defecto) / 0,1 - 0,3 - 0,5 - 1 A (programable)Delay time (Lin)0,03 (por defecto) / 0,1 - 0,3 - 0,5 - 1 A (programable)Delay time (Lin)0,03 (por defecto) / 0,1 - 0,3 - 0,5 - 1 A (programable)Delay time (Lin)0,03 (por defecto) / 0,1 - 0,3 - 0,5 - 1 A (programable)<	Nominal voltage	230V ~ ± 30%		
EnvelopePlastic V0FasteningDIN railWeight (kg)0,43Anvironmental characteristicsP 20, IP 41 (rear panel)Protection classIP 20, IP 41 (rear panel)Relative humidity (without condensation)5 95 %Storage temperature-40 +75 °CWorking temperature-20 +70 °CRelative humidity (without condensation)2000StandardsIE CTR 60755, IEC 60898-1, DIN EN 50022, IEC 60947-2-MElectrical safety, Maximum height (m)2000Standards2 LEDLED2 LEDIsolardsSer interfaceLED2 LEDIsolardsDisplay UpeDisplay UpeCDStatistic (La), A0,03 (prot efector) / 0,1 - 0,3 - 0,5 - 1.A (programable)Delay Line (La)Restruct (La) (La) (La) (La) (La) (La) (La) (La)	Mechanical characteristics			
FasteningDIN railWeight (kg)0.43Protection classIP 20, IP 41 (rear panel)Relative humidity (without condensation)595 %Storage temperature-40475 °CWorking temperature-20470 °CWorking temperature-20470 °CElectrical safety, Maximum height (m)2000Storage temperature2000Storage temperature2000Storag	Size (mm) width x height x depth	79 x 110 x 83 (mm)		
Verify0,43invironmental characteristicsProtection classIP 20,1P 41 (rear panel)Relative humidity (without condensation)5 95 %Storage temperature-40 475 °CWorking temperature-20 470 °CRetarkerElectrical safety, Maximum height (m)Storage temperature2000StandardsElectrical safety, Maximum height (m)Storage temperature2000StandardsElectrical safety, Maximum height (m)Standards2000Stan	Envelope	Plastic VO		
Environmental characteristics       Protection class     IP 20, IP 41 (rear panel)       Relative humidity (without condensation)     5 95 %       Storage temperature     -40 475 °C       Working temperature     -20 470 °C       Storaget Semperature     -20 470 °C       Storaget Semperature     -20 470 °C       Storadards     IEC TR 60755, IEC 60898-1, DIN EN 50022, IEC 60947-2-M       Storadards     IEC TR 60755, IEC 60898-1, DIN EN 50022, IEC 60947-2-M       Storadards     IEC TR 60755, IEC 60898-1, DIN EN 50022, IEC 60947-2-M       Storadards     IEC TR 60755, IEC 60898-1, DIN EN 50022, IEC 60947-2-M       Storadards     IEC TR 60755, IEC 60898-1, DIN EN 50022, IEC 60947-2-M       Storadards     IEC TR 60755, IEC 60898-1, DIN EN 50022, IEC 60947-2-M       Storadards     IEC TR 60755, IEC 60898-1, DIN EN 50022, IEC 60947-2-M       Storadards     IEC TR 60755, IEC 60898-1, DIN EN 50022, IEC 60947-2-M       Keyboard     3 keys       Display type     IEC TR 6015 (IEC 60947-2-M)       Storadards     IT pole (IEC 60947-2-M) INS / SEL       Storadards     IT pole (IEC 60947-2-M) INS / SEL       Trip curve, Type     IC       Nominal current In	Fastening	DIN rail		
Protection class     IP 20, IP 41 (rear panel)       Relative humidity (without condensation)     5 95 %       Storage temperature     -40 +75 °C       Working temperature     -20 +70 °C       Standards	Weight (kg)	0,43		
Relative humidity (without condensation)5 95 %Storage temperature-40 +75 °CWorking temperature-20 +70 °CStandards-20 +70 °CElectrical safeby, Maximum height (m)2000StandardsIEC TR 60755, IEC 60898-1, DIN EN 50022, IEC 60947-2-MJer interface2 IEDLED2 IEDKeyboard3 keysDisplay typeICDInterential protectionTrip dely (EG 60947-2) M INS / SELFreential protectionTrip dely (EG 60947-2) M INS / SELTrip curve, TypeDTrip curve, TypeDIntimate short-circuit breaking capacity (ICU) / service short-circuit3 kAO voltage breaking capacity (IEC 60947-2)<125 V	Environmental characteristics			
Storage temperature   -40 +75 °C     Working temperature   -20 +70 °C     Standards   -20 +70 °C     Electrical safety, Maximum height (m)   2000     Standards   IEC TR 60755, IEC 60898-1, DIN EN 50022, IEC 60947-2-M     Jer interface   2 LED     LED   2 LED     Keyboard   3 keys     Display type   LCD     Iterential protection   Trip delay (IEC 60947-2-M) INS / SEL     Trip curve, Type   0,03 (por defecto) / 0,1 - 0,3 - 0,5 - 1 A (programable)     Trip curve, Type   D     Nominal current In (A)   6     Vittimate short-circuit breaking capacity (IEC) / service short-circuit   30 kA     Vittimate short-circuit breaking capacity (IEC 60947-2)   215 V     A cultimate short-circuit breaking capacity (IEC 60947-2)   20 kA	Protection class	IP 20, IP 41 (rear panel)		
Working temperature   -20 +70 °C     Standards   -20 +70 °C     Standards   2000     Electrical safety, Maximum height (m)   2000     Standards   IEC TR 60755, IEC 60898-1, DIN EN 50022, IEC 60947-2-M     Jer interface   2 LED     LED   2 LED     Keyboard   3 keys     Display type   LCD     Display type   LCD     Sensitivity (Ln), A   0.03 (por defecto) / 0,1 - 0,3 - 0,5 - 1 A (programable)     Delay time (tá)   Trip delay (IEC 60947-2 - M) INS / SEL     Trip curve, Type   D     Nominal current In (A)   6     Ultimate short-circuit breaking capacity (Icu) / service short-circuit Lectore (Icu) / Second (Icu) /	Relative humidity (without condensation)	5 95 %		
Standards     Electrical safety, Maximum height (m)   2000     Standards   IEC TR 60755, IEC 60898-1, DIN EN 50022, IEC 60947-2-M     Jser interface   Jser interface     LED   2 LED     Keyboard   3 keys     Display type   LCD     Display type   LCD     Sensitivity (LAN, A   0,03 (por defecto) / 0,1 - 0,3 - 0,5 - 1 A (programable)     Delay time (tb)   Trip delay (IEC 60947-2-M) INS / SEL     Trip curve, Type   D     Nominal current In (A)   6     Utimate short-circuit breaking capacity (ICL / Service short-circuit breaking capacity (ISC 60947-2)   30 kA     D voltage breaking capacity (IEC 60947-2)   215 V     Ac utimate short-circuit breaking capacity (ICL (0) (IEC 60947-2)   20 kA	Storage temperature	-40 +75 °C		
Electrical safety, Maximum height (m) 2000   Standards IEC TR 60755, IEC 60898-1, DIN EN 50022, IEC 60947-2-M   Jer interface JED   LED 2 LED   Keyboard 3 keys   Display type LCD   Display type LCD   Display type 0,03 (por defecto) / 0,1 - 0,3 - 0,5 - 1 A (programable)   Delay time (tΔ) Trip delay (IEC 60947-2-M) INS / SEL   Trip curve, Type D   Nominal current In (A) 6   Ultimate short-circuit breaking capacity (Icu) / service short-circuit breaking capacity (Icc) 0947-2) 30 kA   C voltage breaking capacity (Icco) 947-2) 215 V   Ac ultimate short-circuit breaking capacity (Icu) (IEC 60947-2) 20 kA	Working temperature	-20 +70 °C		
StandardsIEC TR 60755, IEC 60898-1, DIN EN 50022, IEC 60947-2-MJser interfaceLED2 LEDKeyboard3 keysDisplay typeLCDOfferential protection2003 (por defecto) / 0,1 - 0,3 - 0,5 - 1 A (programable)Sensitivity (IAn), A0,03 (por defecto) / 0,1 - 0,3 - 0,5 - 1 A (programable)Delay time (tA)Trip delay (IEC 60947-2-M) INS / SELTrip curve, TypeDNominal current In (A)6Ultimate short-circuit breaking capacity (Icu) / service short-circuit breaking capacity (IEC 60947-2)20 KAA cultimate short-circuit breaking capacity (Icu) (IEC 60947-2)20 KA	Standards			
Jser interface       LED     2 LED       Keyboard     3 keys       Display type     LCD       Differential protection       Sensitivity (IΔn), A       Delay time (tΔ)     0,03 (por defecto) / 0,1 - 0,3 - 0,5 - 1 A (programable)       Trip curve, Type       Nominal current In (A)     0       Nominal current In (A)     0       Ultimate short-circuit breaking capacity (Icu) / service short capacing capacing (	Electrical safety, Maximum height (m)	2000		
LED2 LEDKeyboard3 keysDisplay typeLCDDifferential protection	Standards	IEC TR 60755, IEC 60898-1, DIN EN 50022, IEC 60947-2-M		
Keyboard3 keysDisplay typeLCDDifferential protection0,03 (por defect) / 0,1 - 0,3 - 1 A (programable)Sensitivity (LΔn), A0,03 (por defect) / 0,1 - 0,3 - 1 A (programable)Delay time (LΔ)Trip delay (IEC 60947-2-M) INS / SELTermal-magnetic protectionTrip delay (IEC 60947-2-M) INS / SELTrip curve, TypeDNominal current In (A)6Utimate short-circuit breaking capacity (IcU / service short-circuit breaking capacity (IEC 60947-2)30 kADc voltage breaking capacity (IEC 60947-2)20 kA	User interface			
Display typeLCDDifferential protectionSensitivity (IΔn), A0,03 (por defecto) / 0,1 - 0,3 - 0,5 - 1 A (programable)Delay time (tΔ)Trip delay (IEC 60947-2-M) INS / SELThermal-magnetic protectionTrip delay (IEC 60947-2-M) INS / SELTrip curve, TypeDNominal current In (A)6Ultimate short-circuit breaking capacity (ICU / service short-circuit breaking capacity (IEC 60947-2)30 kADC voltage breaking capacity (IEC 60947-2)2125 VAC ultimate short-circuit breaking capacity (IcU) (IEC 60947-2)20 kA	LED	2 LED		
Differential protection     Sensitivity (IΔn), A   0,03 (por defecto) / 0,1 - 0,3 - 0,5 - 1 A (programable)     Delay time (tΔ)   Trip delay (IEC 60947-2-M) INS / SEL     Thermal-magnetic protection   D     Trip curve, Type   D     Nominal current In (A)   6     Ultimate short-circuit breaking capacity (Icu) / service short-circuit breaking capacity (IEC 60947-2)   30 kA     DC voltage breaking capacity (IEC 60947-2)   <125 V	Keyboard	3 keys		
Sensitivity (ΙΔη), A0,03 (por defecto) / 0,1 - 0,3 - 0,5 - 1 A (programable)Delay time (tΔ)Trip delay (IEC 60947-2-M) INS / SELThermal-magnetic protectionDTrip curve, TypeDNominal current In (A)6Ultimate short-circuit breaking capacity (Icu) / service short-circuit breaking capacity (IEC 60947-2)30 kADC voltage breaking capacity (IEC 60947-2)<125 V	Display type	LCD		
Delay time (td)Trip delay (IEC 60947-2-M) INS / SELThermal-magnetic protectionDTrip curve, TypeDNominal current In (A)6Ultimate short-circuit breaking capacity (Icu) / service short-circuit breaking capacity (IEC 60947-2)30 kADC voltage breaking capacity (IEC 60947-2)<125 VAC ultimate short-circuit breaking capacity (Icu) (IEC 60947-2)20 kA	Differential protection			
Trip curve, Type   D     Nominal current In (A)   6     Ultimate short-circuit breaking capacity (Icu) / service short-circuit breaking capacity (Icc) / service short capacity (Icc) / service short cap	Sensitivity (I∆n), A	0,03 (por defecto) / 0,1 - 0,3 - 0,5 - 1 A (programable)		
Trip curve, TypeDNominal current In (A)6Ultimate short-circuit breaking capacity (Icu) / service short-circuit breaking capacity (Ics), in DC (IEC 60947-2)30 kADC voltage breaking capacity (IEC 60947-2)<125 V	Delay time (t∆)	Trip delay (IEC 60947-2-M) INS / SEL		
Nominal current In (A)   6     Ultimate short-circuit breaking capacity (lcu) / service short-circuit   30 kA     breaking capacity (lcs), in DC (IEC 60947-2)   <125 V	Thermal-magnetic protection			
Ultimate short-circuit breaking capacity (Icu) / service short-circuit30 kAbreaking capacity (Ics), in DC (IEC 60947-2)<125 V	Trip curve, Type	D		
breaking capacity (Ics), in DC (IEC 60947-2)   <125 V	Nominal current In (A)	6		
AC ultimate short-circuit breaking capacity (Icu) (IEC 60947-2) 20 kA		30 kA		
	DC voltage breaking capacity (IEC 60947-2)	< 125 V		
V~ Breaking capacity (IEC 60947-2) 240 V ~	AC ultimate short-circuit breaking capacity (Icu) (IEC 60947-2)	20 kA		
	V~ Breaking capacity (IEC 60947-2)	240 V ~		





Residual current circuit breaker with self-reclosing system

Code: P2A130.

Nominal voltage	240 / 415 V ~
Reclosure type	
Reclosure number	Programmable: Differential (10) / Magnetothermal (2)
Reset time	Programmable: Differential / Magnetothermic: 30 min
Reclosure time	Programmable: Differential / Circuit breaker: 3 min

#### RECmaxLPD

Self-reclosing residual current relay with circuit breaker, used with a residual current transformer not included

CODE	ТҮРЕ	Poles	In (A)	Curve
2 Poles, C Curve				
P2A110.	RECmaxLPd-C2-6	2	6 A	С
P2A111.	RECmaxLPd-C2-10	2	10 A	С
P2A112.	RECmaxLPd-C2-16	2	16 A	C
P2A113.	RECmaxLPd-C2-20	2	20 A	С
P2A114.	RECmaxLPd-C2-25	2	25 A	С
P2A115.	RECmaxLPd-C2-32	2	32 A	С
P2A116.	RECmaxLPd-C2-40	2	40 A	С
P2A117.	RECmaxLPd-C2-50	2	50 A	C
P2A118.	RECmaxLPd-C2-63	2	63 A	C
4 Poles, C Curve				
P2A120.	RECmaxLPd-C4-6	4	6 A	С
P2A121.	RECmaxLPd-C4-10	4	10 A	С
P2A122.	RECmaxLPd-C4-16	4	16 A	C
P2A123.	RECmaxLPd-C4-20	4	20 A	С
P2A124.	RECmaxLPd-C4-25	4	25 A	С
P2A125.	RECmaxLPd-C4-32	4	32 A	С
P2A126.	RECmaxLPd-C4-40	4	40 A	C
P2A127.	RECmaxLPd-C4-50	4	50 A	С
P2A128.	RECmaxLPd-C4-63	4	63 A	С
2 Poles, D Curve				
P2A130.	RECmaxLPd-D2-6	2	6 A	D
P2A131.	RECmaxLPd-D2-10	2	10 A	D
P2A132.	RECmaxLPd-D2-16	2	16 A	D
P2A133.	RECmaxLPd-D2-20	2	20 A	D
P2A134.	RECmaxLPd-D2-25	2	25 A	D
P2A135.	RECmaxLPd-D2-32	2	32 A	D
P2A136.	RECmaxLPd-D2-40	2	40 A	D
P2A137.	RECmaxLPd-D2-50	2	50 A	D

Circutor

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Residual current circuit breaker with self-reclosing system

Code: P2A130.

CODE	ТҮРЕ	Poles	In (A)	Curve
P2A138.	RECmaxLPd-D2-63	2	63 A	D
4 Poles, D Curve				
P2A140.	RECmaxLPd-D4-6	4	6 A	D
P2A141.	RECmaxLPd-D4-10	4	10 A	D
P2A142.	RECmaxLPd-D4-16	4	16 A	D
P2A143.	RECmaxLPd-D4-20	4	20 A	D
P2A144.	RECmaxLPd-D4-25	4	25 A	D
P2A145.	RECmaxLPd-D4-32	4	32 A	D
P2A146.	RECmaxLPd-D4-40	4	40 A	D
P2A147.	RECmaxLPd-D4-50	4	50 A	D
P2A148.	RECmaxLPd-D4-63	4	63 A	D

WGS-20/30 and WGC-25/35 residual current transformers. C/D curve circuit breaker with 6 kA cut off power (IEC 60898).

# Circutor



Residual current circuit breaker with self-reclosing system

Code: P2A130.

# Dimensions

# Connections

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