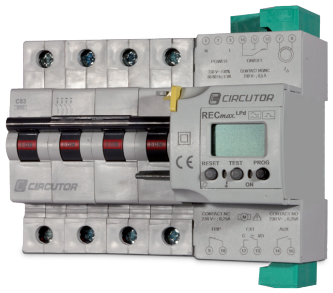
RECmax LPd

Earth leakage circuit breaker with self-reclosing system



Description

Self-resetting cut-off device with circuit breaker and ultra-immunised earth leakage protection. Programmable unit with display, which measures leakage currents (earth leakage 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, IΔ, requires an external earth leakage 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:

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

Applications

The **RECmax LPd**, linked with the **WGC** toroidal transformers, ensures earth-leakage and circuit-breaker protection with self-reclosing after an earth leakage, 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

Maximum operating time (s) for $I_{\Delta n}$

Type	$I_{\Delta n}$	$1 \cdot I_{\Delta n}$	$2 \cdot I_{\Delta n}$	$5 \cdot I_{\Delta n}$	500 A
INStantaneous	All values	0,3	0,15	0,04	0,04

Standardised values in accordance with **IEC 61008-1**

Technical features

Earth leakage protection	Type	Type A (**IEC 60755**) ultra-immunised
	Measurement	True root mean square (TRMS)
	Sensitivity $I_{\Delta n}$	Adjustable, 0.03 - 0.1 - 0.3 - 0.5 - 1 A* (**30 mA by default**)
	Trip delay	Adjustable, trip curve: INS, SEL Defined time: 0.1 - 0.2 - 0.3 - 0.4 - 0.5 - 0.6 - 0.8 - 1 s
	Test and reset	Using buttons T and R
	Sensor element to connect	**WGC / WGS** earth leakage transformer
Circuit breaker protection	Integrated element	Motorized circuit breaker
	Current, I_n	6-10-16-20-25-32-40-50-63 A
	Number of poles	2 / 4
	Rated voltage, U_n Vac	240 / 415
	Trip curves	C / D
	Cut-off power	6 kA
Earth leakage / Circuit breaker reclosing	No. of reclosures	Programmable, 10 / 2 (**by default**)
	Time between reclosures	Configurable, 3 min. (**by default**)
	RESET time	In accordance with the configured sequence, 30 min (**by default**)
External signalling	LED	Presence of voltage, leakage trip, timing between reclosures
	LCD Display	Instantaneous value of leakage, trip leakage value, reclosing energy meter, programming values, protection statuses
	Remote	Potential-free auxiliary contact output, of the interlocking status and circuit-breaker position status
External inputs	Remote ON / OFF	Trip / reset, voltage-free input
Electrical features	Auxiliary power supply	230 Vac
	Remote interlocking output contact	Potential-free, 230 V, maximum current 250 mA
	Remote output contact of circuit breaker position	Potential-free, 230 V, maximum current 500 mA
	Remote control inputs	Voltage-free, activated by button or external switch
Mechanical features	Operating temperature	-10 °C...+50 °C
	Attachment	**DIN 46277** rail (**EN 50022**)
	Dimensions	2 poles: 4.5 modules / 4 poles: 6.5 modules
	Weight	2 poles: 452 g / 4 poles: 703 g
	Protection degree	IP 20 terminals, IP 41 embedded relay
Standards	**IEC 60947-2, IEC 60755**	

* If adjusted to an earth leakage tripping sensitivity of 30 mA, the default delay is set to INStantaneous.

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References

2 Poles - C Curve

I_n (A)	Type	Code
6	RECmax-LPd-C2-6	P2A110
10	RECmax-LPd-C2-10	P2A111
16	RECmax-LPd-C2-16	P2A112
20	RECmax-LPd-C2-20	P2A113
25	RECmax-LPd-C2-25	P2A114
32	RECmax-LPd-C2-32	P2A115
40	RECmax-LPd-C2-40	P2A116
50	RECmax-LPd-C2-50	P2A117
63	RECmax-LPd-C2-63	P2A118

4 Polos - C Curve

I_n (A)	Type	Code
6	RECmax-LPd-C4-6	P2A120
10	RECmax-LPd-C4-10	P2A121
16	RECmax-LPd-C4-16	P2A122
20	RECmax-LPd-C4-20	P2A123
25	RECmax-LPd-C4-25	P2A124
32	RECmax-LPd-C4-32	P2A125
40	RECmax-LPd-C4-40	P2A126
50	RECmax-LPd-C4-50	P2A127
63	RECmax-LPd-C4-63	P2A128

2 Poles - D Curve

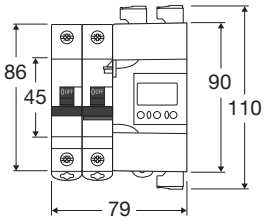
I_n (A)	Type	Code
6	RECmax-LPd-D2-6	P2A130
10	RECmax-LPd-D2-10	P2A131
16	RECmax-LPd-D2-16	P2A132
20	RECmax-LPd-D2-20	P2A133
25	RECmax-LPd-D2-25	P2A134
32	RECmax-LPd-D2-32	P2A135
40	RECmax-LPd-D2-40	P2A136
50	RECmax-LPd-D2-50	P2A137
63	RECmax-LPd-D2-63	P2A138

4 Poles - D Curve

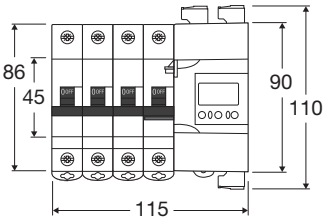
I_n (A)	Type	Code
6	RECmax-LPd-D4-6	P2A140
10	RECmax-LPd-D4-10	P2A121
16	RECmax-LPd-D4-16	P2A142
20	RECmax-LPd-D4-20	P2A143
25	RECmax-LPd-D4-25	P2A144
32	RECmax-LPd-D4-32	P2A145
40	RECmax-LPd-D4-40	P2A146
50	RECmax-LPd-D4-50	P2A147
63	RECmax-LPd-D4-63	P2A148

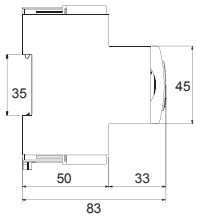
Dimensions

2 Poles



4 Poles





Connections