



## RECmax P-D4-20

RECmax P-D4-20, Motorized circuit breaker, 4-pole D-curve

Code: P28143. DESCATALOGADO

- > Poles: 4
- > In (A): 20 A
- > Curve: D

### Description

The RECmax P series are 2- and 4-pole circuit breakers connected to a compact motor and internal control unit that enables automatic reclosing.

After triggering, the switch recloses following a sequence of 3 reclosures, with 3 minutes between resets. If the unit is not able to reclose after 3 attempts, it remains triggered until a manual or remote reset is made.

Can also be connected remotely to an external control. It has two inputs which, via voltage-free external signals, order the opening (input O) and subsequent closing (reclosing) of the circuit breaker (input I).

They serve as protection against short-circuits and overloads, and can also be used as a remote circuit breaker. The switch status is indicated by LED signals on the front panel of the unit. A green ON LED indicates that the unit is in service; a red OFF LED indicates that the unit has been tripped. A TEST/RESET of the unit can be performed by pressing a button to check the tripping and subsequent rearming of the unit. It also features two single-contact outputs for signalling the status and the cause of the opening and closing of the circuit breaker (trip, manual/test).

### Application

The RECmax P series are motorized circuit breakers that can be rearmed automatically or controlled remotely, suitable for any application in which remote connection/disconnection control is required.

They are an essential accessory for automatic circuit breaker and residual current reclosing and protection, and for external control of connection/disconnection.



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Motorised self-resettable circuit breaker (up to 63 A)

Code: P28143.

## Specifications

### AC power supply

|                       |               |
|-----------------------|---------------|
| Installation category | CAT III 300 V |
| Consumption           | 4,5 VA        |
| Frequency             | 50 / 60 Hz.   |
| Nominal voltage       | 230V ~ ± 30%  |

### Mechanical characteristics

|                                  |                               |
|----------------------------------|-------------------------------|
| Size (mm) width x height x depth | 115 x 110 x 83 (mm)           |
| Envelope                         | Plastic V0 polycarbonate + GF |
| Fastening                        | DIN rail 46277 (EN 50022)     |
| Weight (kg)                      | 0,546                         |

### Environmental characteristics

|                                          |                                             |
|------------------------------------------|---------------------------------------------|
| Protection class                         | Motor: IP 40 (DIN 40050) / RECmax MP: IP 20 |
| Relative humidity (without condensation) | 5 ...95 %                                   |
| Operating temperature                    | -20 ... +70 °C                              |

### Standards

|                                       |                        |
|---------------------------------------|------------------------|
| Electrical safety, Maximum height (m) | 2000                   |
| Standards                             | IEC 60898, IEC 60947-2 |

### Motor

|                                 |                     |
|---------------------------------|---------------------|
| Frequency (Hz)                  | 50 / 60             |
| Absorbed power                  | 10 VA               |
| Tripping / motor reclosure time | < 10 ms / < 1000 ms |
| On / off pulse time             | > 10 ms / > 10 ms   |
| Maximum voltage                 | 420 V ~             |
| Minimum voltage                 | 90 V ~              |
| Nominal voltage                 | 230 V ~ ± 30 %      |
| Electrical life                 | > 20000 operations  |

### Digital relay outputs

|                 |                 |
|-----------------|-----------------|
| Nominal current | 0,25 A          |
| Type            | Simple contacts |
| Nominal voltage | 230 V           |

### Thermal-magnetic protection

|                        |    |
|------------------------|----|
| Trip curve, Type       | D  |
| Nominal current In (A) | 20 |



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|                                                                                                         |                 |
|---------------------------------------------------------------------------------------------------------|-----------------|
| Number of mechanical / electrical manoeuvres                                                            | > 20000 / 10000 |
| Rated short-circuit breaking capacity (Icn) / service short-circuit breaking capacity (Ics) (IEC 60898) | 6 kA            |
| Voltage breaking capacity (IEC 60898)                                                                   | 230 / 400 V ~   |
| AC ultimate short-circuit breaking capacity (Icu) (IEC 60947-2)                                         | 10 kA           |
| V~ Breaking capacity (IEC 60947-2)                                                                      | 415 V ~         |
| Minimum operating voltage UB min (V)                                                                    | 12 V ~          |
| Nominal voltage                                                                                         | 240 / 415 V ~   |

**RECmaxP**  
MCB with self-reclosing, up to 63 A

| CODE                    | TYPE           | Poles | In (A) | Curve |
|-------------------------|----------------|-------|--------|-------|
| <b>2 Poles, C Curve</b> |                |       |        |       |
| P28110.                 | RECmax P-C2-6  | 2     | 6 A    | C     |
| P28111.                 | RECmax P-C2-10 | 2     | 10 A   | C     |
| P28112.                 | RECmax P-C2-16 | 2     | 16 A   | C     |
| P28113.                 | RECmax P-C2-20 | 2     | 20 A   | C     |
| P28114.                 | RECmax P-C2-25 | 2     | 25 A   | C     |
| P28115.                 | RECmax P-C2-32 | 2     | 32 A   | C     |
| P28116.                 | RECmax P-C2-40 | 2     | 40 A   | C     |
| P28117.                 | RECmax P-C2-50 | 2     | 50 A   | C     |
| P28118.                 | RECmax P-C2-63 | 2     | 63 A   | C     |
| <b>4 Poles, C Curve</b> |                |       |        |       |
| P28120.                 | RECmax P-C4-6  | 4     | 6 A    | C     |
| P28121.                 | RECmax P-C4-10 | 4     | 10 A   | C     |
| P28122.                 | RECmax P-C4-16 | 4     | 16 A   | C     |
| P28123.                 | RECmax P-C4-20 | 4     | 20 A   | C     |
| P28124.                 | RECmax P-C4-25 | 4     | 25 A   | C     |
| P28125.                 | RECmax P-C4-32 | 4     | 32 A   | C     |
| P28126.                 | RECmax P-C4-40 | 4     | 40 A   | C     |
| P28127.                 | RECmax P-C4-50 | 4     | 50 A   | C     |
| P28128.                 | RECmax P-C4-63 | 4     | 63 A   | C     |
| <b>2 Poles, D Curve</b> |                |       |        |       |
| P28130.                 | RECmax P-D2-6  | 2     | 6 A    | D     |
| P28131.                 | RECmax P-D2-10 | 2     | 10 A   | D     |
| P28132.                 | RECmax P-D2-16 | 2     | 16 A   | D     |
| P28133.                 | RECmax P-D2-20 | 2     | 20 A   | D     |
| P28134.                 | RECmax P-D2-25 | 2     | 25 A   | D     |
| P28135.                 | RECmax P-D2-32 | 2     | 32 A   | D     |



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| CODE             | TYPE           | Poles | In (A) | Curve |
|------------------|----------------|-------|--------|-------|
| P28136.          | RECmax P-D2-40 | 2     | 40 A   | D     |
| P28137.          | RECmax P-D2-50 | 2     | 50 A   | D     |
| P28138.          | RECmax P-D2-63 | 2     | 63 A   | D     |
| 4 Poles, D Curve |                |       |        |       |
| P28140.          | RECmax P-D4-6  | 4     | 6 A    | D     |
| P28141.          | RECmax P-D4-10 | 4     | 10 A   | D     |
| P28142.          | RECmax P-D4-16 | 4     | 16 A   | D     |
| P28143.          | RECmax P-D4-20 | 4     | 20 A   | D     |
| P28144.          | RECmax P-D4-25 | 4     | 25 A   | D     |
| P28145.          | RECmax P-D4-32 | 4     | 32 A   | D     |
| P28146.          | RECmax P-D4-40 | 4     | 40 A   | D     |
| P28147.          | RECmax P-D4-50 | 4     | 50 A   | D     |
| P28148.          | RECmax P-D4-63 | 4     | 63 A   | D     |

C/D curve circuit breakers with 6 kA cut off power (IEC 60898).



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### Dimensions



### Connections

