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## STOP & GO automatic resetting

Cat. N°(s) : 4 062 88 / 4 062 89

#### 1. DESCRIPTION - USE

STOP & GO motor driven unit is an automatic resetting device for MCB's, RCBO's (P+N or 2P) and RCCB's (2P).

STOP & GO automatic resetting main functions are:

. In case of tripping due to earth leakage or short circuit, it detects the presence of an insulation fault in the system before to reset.

. In case of transient fault, it automatically resets the electrical circuit.

. In case of permanent fault, (earth leakage or short circuit), it keeps the circuit open and notifies the user by a visual signal and, if necessary, by an acoustic signal (by an integrated contact)

. These functions allow the continuity of operation of the involved circuits.

. Cat. n° 4 062 89 is fitted with a self-test function that allows to test automatically every 56 days (hour and day of test are

programmable) that the associated residual current device operates properly.

#### Technology :

. DC electric motor with permanent magnets

#### 2. PRODUCT RANGE

#### Cat. Nº 4 062 88:

. It automatically resets the associated device (P+N or 2P) in case of tripping after a transient fault.

. It checks the status of the installation before to reset.

. It reports any permanent fault (earth leakage or short circuit). Cat. N° 4 062 89:

. In addition to the same functions as cat.  $n^\circ$  4062 88, it allows an automatic periodic test of the associated 30 mA residual current device.

Width = 2 modules (35,4 mm)

#### Rated Voltage & Frequency:

. 230 V ~ 50 / 60 Hz with standard tolerances.

#### Operating voltages:

- . Minimum (0,85 x Un) : 195,5 V
- . Maximum (1,1 x Un) : 253 V

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#### 4. PREPARATION - CONNECTION

#### Fixing:

. On symmetric rail EN/IEC 60715 or DIN 35.

#### Operating positions:

Vertical, Horizontal, backwards, on the side



#### Supply:

. Supply Phase and Neutral from the top on the extractable connector . It is compulsory to connect Phase and Neutral downstream of the associated device and the protection conductor to the connector at the bottom of this device. Stop & Go will not work correctly if the protection conductor is not connected.

#### List of possible associations:

#### . 2P RCCBs

- . 2P RCBOs (2 poles protected or P+N, 1 pole protected)
- . 2P MCBs (2 poles protected or P+N, 1 pole protected)

#### CONTENTS

1. Description - Use ...... 1

PAGE

- 2. Product range ...... 1

70.9

### 3. OVERALL DIMENSIONS

### STOP & GO automatic resetting

#### 4. PREPARATION - CONNECTION (continued):

#### Association:

. To be fitted to the left of MCB's DX<sup>3</sup>≤10 000A (P+N, 1P, 2P - 1 module per pole wide), RCCB's DX<sup>3</sup>2P and RCBO's DX<sup>3</sup>≤10 000A (P+N et 2P ≤63A)

. No tool required. Clipped to the associated device by mean of plastic clamps.



#### Wiring diagram:



#### Protection of STOP&GO:

. It is not necessary to install specific protections upstream of the Stop & Go because it is self-protected

#### Connection:

. Terminals protected against accidental contact (IP20, wired device).

#### Depth of terminals :

. 10 mm.

#### Connectable section:

	Copper cables		
	Without ferrule	With ferrule	
Rigid cable	1 x 2,5mm² 2 x 1,5mm²	-	
Flexible cable	1 x 2,5mm² 2 x 1,5mm²	1 x 2,5mm² 2 x 1,5mm²	

#### 4. PREPARATION - CONNECTION (continued):

#### Stripping length recommended:

. 7 mm.

#### Screw head:

. Slotted, diameter 3.5 mm.

#### Recommended tightening torque:

. 0.4÷0.5 Nm.

#### **Tools required:**

- . For the terminals: flat screwdriver 3.5 mm.
- . For fixing: flat screwdriver 5.5 mm (6 mm maximum).

#### Lockout:

. By the sliding front face.

Sliding front face downward: the associated device goes into OFF position and manual or automatic closing operations are disabled. Sliding front face upward: the device is operating.

. Lockout by padlock  $\Phi$ 4mm only when the sliding front face is down. Then mechanical and electrical controls are not possible.

## Display of the device status and the status of the contacts of the associated device:

- . By handle mark:
  - "O-Off" white on a green background = device switched-off and contacts opened.

"I-On" white on a red background = device powered-on and contacts closed.

#### Device handle status:

. The handle of the Stop & Go automatic resetting module, consists of two parts:



#### . Operation sequences:

- Normal operation: both handle upward.



Technical data sheet: F01284EN/00

**L**legrand

## STOP & GO automatic resetting



- In case of an unwanted tripping of the associated device and during the verification of the state of the electric circuit: The power handle is down.





- If the Stop & Go detects a permanent fault after a tripping, the isolating handle goes down



- If the Stop & Go doesn't detect a permanent fault, it returns to normal operation (reset of the associated device): both handle are upward.



WARNING : the stop & go makes only one attempt of resetting.

### Time of a re-setting cycle:

. < 2 sec

## Tripping by the test button of the associated residual current device:

. In auto mode, when tripping the associated device by the test button, if the test button has been pushed more than 1 second, the Stop & Go unit will reset the associated device then switch it off again. It will be necessary to manually reset the Stop & Go.

### 4. PREPARATION - CONNECTION (continued):

#### Resetting by the Stop & Go handle:

. When the permanent fault has disappeared, the resetting of the Stop & Go and of the associated device is carried out by the Stop & Go handle (isolating and power handles together)





#### Selector AUTO / MAN:

- . The selector enables and disables the automatic remote control. . Positions:
- AUTO: possibility to automatically or manually control tripping and re-setting.
- MAN: manual control only by the handle of the Stop & Go (isolating and power handles together)
- Signalling by LED:
- Green fixed: associated device "power on" and "Stop & Go" in AUTO mode.
- Green flashing: "Stop & Go" in MAN mode.

#### Signalling:

- . Signalling by LED:
- Green fixed: associated device "power on" and "Stop & Go" in AUTO mode. Automatic resetting activated (and self-test activated for cat. n° 4 062 89).
- Green flashing: "Stop & Go" in MAN mode.
- Red flashing: waiting for reset.
- Red fixed: the device has tripped on fault (overload, short-circuit, residual current fault) or by control auxiliary.
- Sliding front face downward: LED switched-off.
- Yellow fixed (cat. n° 4 062 89 only): self-test function has detected a malfunction of the associated differential device.

#### Self-test programming (cat. n° 4 062 89):



. After having connected cat. N° 4 068 89 to 230 V ~ network, put the handle on ON position, switch the selector from "AUTO" position to "MAN" position then again to "AUTO" position.

. The first automatic test of the residual current detection is carried out instantaneously. The next test will be carried out 56 days and 8 hours after the first test and this test will be shift during the night. Then the next test will occur every 56

days (8 weeks).

## STOP & GO automatic resetting



Technical data sheet: F01284EN/00

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#### 5. GENERAL CHARACTERISTICS (continued)

#### Resistance to sinusoidal vibrations:

- . According to IEC 60068-2-6.
- . Axis : x, y, z.
- . Frequency range: 5÷100 Hz ; duration 90 min.
- . Displacement (5÷13.2 Hz) : 1mm
- . Acceleration (13.2÷100 Hz) : 0.7g (g=9.81 m/s<sup>2</sup>).

#### Maximum power consumption:

. <20VA rms (<80VA peak) during resetting

#### Standby power consumption:

. <1,5VA

#### **Recognition:**

. Labelling of the circuits by label in the "label holder" on the front-side of the device.

#### 6. CONFORMITIES AND APPROVALS

#### Compliance with standards:

- . CEE guidelines : 73/23/CEE + 93/68/CEE
- . IEC / EN 50557: device for automatic reset of MCB's, RCBO's, RCCB's for household and similar purposes.
- . Electromagnetic compatibility: EN 61543
- . Legrand devices can be used under the conditions of use as defined by IEC / EN 60947.

#### 7. AUXILIARIES AND ACCESSORIES

#### Signalling auxiliaries:

- . Auxiliary contact (1/2 module cat n° 4 062 58).
- . Fault signalling changeover switch (1/2 module cat n° 4 062 60).
- . Auxiliary contact modifiable in default signal (1/2 module cat n° 4 062 62).
- . Auxiliary contact + fault signalling switch can be modified to 2 auxiliary contacts (1 module cat n° 4 062 66).

#### Control auxiliaries:

. It is forbidden to associate control auxiliaries (cat. n° 4 062 7x / 8x) to motor driven control module with integrated automatic resetting.

#### Possible combinations with signalling auxiliaries:

- . Auxiliaries are clipped on the left side of the Stop & Go unit
- . Two signalling auxiliaries max. (cat. n° 4 062 58 / 60 / 62 / 66).
- . If two signalling auxiliaries are associated to a same motor driven control unit, the 1 module wide control auxiliary (cat n° 4 062 66 / 78 / 82 / 84) must be located to the left of the  $\frac{1}{2}$  module wide auxiliary (cat. n° 4 062 58 / 60 / 62).

			4062 88 / 89	
		4062 58 / 60 / 62 / 66	4062 88 / 89	
	4062 58 / 60 / 62	4062 58 / 60 / 62	4062 88 / 89	
	4062 58 / 60 / 62 / 66	4062 66		

Technical data sheet: F01284EN/00