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DX³ Undervoltage release (MT)

Cat. N°(s): 4 062 80, 82



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1. DESCRIPTION - USE

- . Undervoltage release (MT): enable the remote tripping of the associated device.
- . This device is equipped by a time delay adjustable from 0 to 300ms to avoid unwanted tripping due to voltage dips of the supply

Symbol:

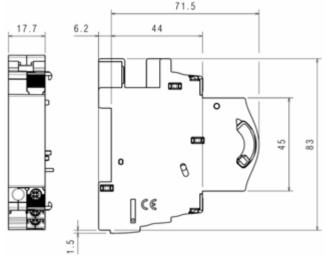


2. RANGE

- . Cat n° 406 280 : 24 and 48 V \sim /= (a.c. / d.c.).
- . Cat n° 406 282 : 230 V ~ (a.c.).

3. OVERALL DIMENSIONS

1 module width.



4. PREPARATION CONNECTION

Fixina

. On symmetric EN/IEC 60715 or DIN 35 rail, by the device which is associated.

Operating positions:

. Vertical Horizontal Upside down On the side



Power Supply:

. Only from the bottom.

Terminals:

- . Terminal depth: 8 mm.
- . Stripping length: 8 mm

Screw head:

. Mixed, slotted and Pozidriv n°1 (UNI7596 type Z1).

Recommended tightening torque:

. 1 Nm.

Recommended tools:

- . For the terminals: Pozidriv n°1 or flat screwdriver 4 mm.
- . For the adjustment pawl of the timer: flat screwdriver 4 mm.

Conductor type:

	Copper cable		
	Without ferrule	With ferrule	
Rigid Cable	1 x 0,5 mm² to 1,5 mm² 2 x 1,5 mm²	-	
Flexible Cable	1 x 0,5 mm ² to1,5 mm ² 2 x 1,5 mm ²	1 x 0,5 mm ² to 1,5 mm ² 2 x 1,5 mm ²	

Manual action of the MT:

. By the handle of the associated device, for reset the release.

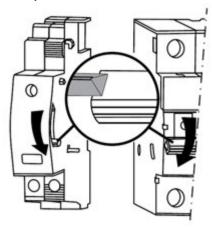
4. PREPARATION -CONNECTION (continued)

Display of Undervoltage release state:

- . By mechanical indicator on front face:
 - red: indicates the tripping of the device by the coil.
 - transparent: the undervoltage release is in ON position (armed position, ready for tripping).

Assembling:

- . On the left side of Legrand MCB, IS, RCBO or RCCB and isolating switches equipped or not with signalling auxiliaries
- . No tool required. Clipped by mean of plastic clamps on the associated device.
- . Assembling products in OFF position
- . The switching device of the shunt release must be positioned above of the handle of the associated device or the signalling auxiliary.



List of allowed associations (General rules):.

Three auxiliaries maximum which:

- two signalling auxiliaries (Cat. n°(s) 4 062 50, 52, 56, 58, 60, 62, 64, 66).
- Only one control auxiliary (Cat. n°(s) 4 062 76, 78, 80, 82, 84).
- . If signalling and control auxiliaries are associated on the same circuit breaker, the command auxiliary must be placed to the left of the signal auxiliary (ref. $4\,062\,5x\,/\,6x$).
- . For devices 1,5 modules per pole width:

If a Remote tripping auxiliary is already mounted on this kind of device,), under-voltage releases (4 062 80/82) then only 1 module signalling auxiliaries can be added (auxiliary + fault signalling contact or auxiliary contact + auxiliary contact 4 062 64 / 66). In this set up the $\frac{1}{2}$ module signalling auxiliaries will not operate. Nothing changes for the other modular references.

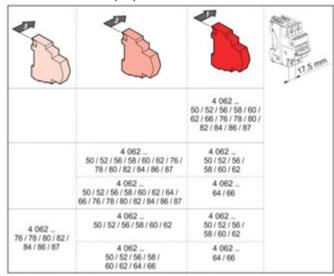
List of allowed associations (Particular rules):

- . With an isolating switch DX-IS:
 - only one signalling auxiliary CA type (Cat. $n^{\circ}(s)$ 4 062 50, 58 64, 66).
- . With a remote trip head isolating switch DX-IS, three auxiliaries maximum which:
 - one or two signalling auxiliaries CA type (Cat. $n^{\circ}(s)$ 4 062 50, 58 64, 66).
 - one control auxiliary cat n°(s) 4 062 7x / 8x.
- . With a MCB, IS, RCBO,RCCB three auxiliaries maximum which:
 - one or two signalling auxiliaries, CA or SD type (Cat. $n^{\circ}(s)$ 4 062 50, 52, 56, 58, 60, 62, 64, 66).
 - one control auxiliary Cat. n°(s) 4 062 7x / 8x.

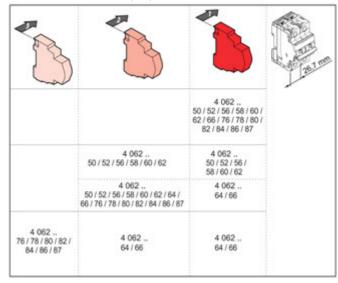
4. PREPARATION -CONNECTION (continued)

Combination tables of the auxiliaries:

. For devices 1 module per pole width:

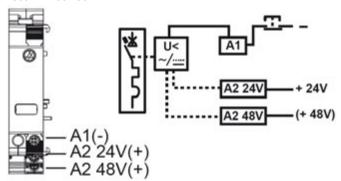


. For devices 1,5 modules per pole width:



Wiring diagrams:

. Cat. n° 4 062 80.



Technical data sheet: FR01224EN/01 Updated: 09/12/2013 Created: 16/12/2011



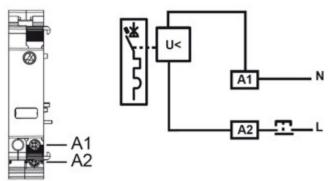
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4. PREPARATION -CONNECTION (continued)

Wiring diagrams: (continued)

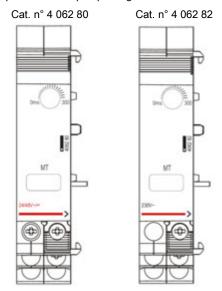
. Cat. n° 4 062 82.



5. GENERAL CHARACTERISTICS

Front side marking:

. By permanent ink pad printing:



- Function name :MT = Undervoltage release
- Operating voltage
- Time delay setting
- Legrand reference code and Logo

Operating voltage (Un):

- . Cat n° 406 280: 24 and 48 V \sim /= (a.c. / d.c.).
- . Cat n° 406 282: 230 V~ (a.c.).

Tripping voltage:

. 35% of Un.

Voltage threshold:

. 70% of Un.

Tripping time:

- . $t \le 40$ ms with the time delay setting at "0".
- . t = 400 ms (+/- 50%) with the time delay setting at "300".

5. GENERAL CHARACTERISTICS (continued)

Power absorbed:

- . Cat. n°4 062 80 :
 - 24 V d.c. = 0,1 W
 - 24 V a.c. = 0,1 VA
 - 48 V d.c. = 0,2 W
 - 48 V a.c. = 0,2 VA
- . Cat. n°4 062 82 :
 - 230 V a.c. = 1 VA.

Rated impulse withstand voltage:

. Uimp = 5kV.

Electromagnetic compatibility:

- . Burst: 4 kV.
- . Surge 1,2/50 µs: 4 kV differential mode and 5 kV common mode.

Insulation voltage:

. Ui = 500 V

Dielectric strength:

. 2500 V.

Tripping force:

. 3 Nm.

Mechanical endurance:

- . 3 000 electrical tripping.
- . These devices support the mechanical cycles of the associated devices

Ambient temperatures:

- . Operation: from -25°C. to +70°C
- . Storage: from -40°C. to +70°C

Enclosure material:

- . Polycarbonate charged 10% glass fiber.
- . Characteristics of this material: self extinguishing, heat and fire resistant in accordance with standard EN 60898-1, glow-wire test at 960°C for external parts made of insulating material necessary to retain in position current-carrying parts and parts of protective circuit (650°C for all other external parts made of insulating material).

Degree of class protection:

- . Protection index of terminals against solid and liquid bodies: IP20 (in accordance with standards IEC 529, EN 60529 and NF C 20-
- . Protection index of the box against solid and liquid bodies: IP40 (in accordance with standards IEC 529, EN 60529 and NF C 20-010).
- . Protection index against mechanical shocks: IK02 (in accordance with standards EN 50102 and NF C 20-015).

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5. GENERAL CHARACTERISTICS (continued)

Sinusoidal vibration resistance in accordance with IEC 60068-2-6:

- . Axes: x, y, z.
- . Frequency: 5÷100 Hz ; duration 90 minutes
- . Displacement (5÷13,2 Hz): 1mm
- . Acceleration (13,2÷100 Hz): 0,7g (g=9,81 m/s²)

Average weight per device:

. 0,063 kg.

Volume when packed:

. 0,21 dm³.

Power dissipated (W):

- . Cat. n° 4 062 80 :
 - 24 V ac / d.c = 0,1 W.
 - 48 V ac / d.c. = 0,2 W.
- . Cat. n° 4 062 82 :
 - 230 V a.c. = 1 VA.

6. COMPLIANCE AND APPROVALS

In accordance with:

.Standards IEC/EN 23-105, EN 60439-1 (Low Voltage Directive 2006/95/EC), EN 60439-3 (Directive EMC 2004/108/EC).

. CEE guidelines : 73/23/CEE + 93/68/CEE

Plastic materials:

. Halogens-free plastic materials.

Technical data sheet: FR01224EN/01

. Marking of parts according to ISO 11469 and ISO 1043.

Packaging:

. Design and manufacture of packaging in accordance with Decree 98-638 of 07.20.98 and Directive 94/62/EC

Updated: 09/12/2013