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DX³ Shunt trip (ET)

Cat N° (s): 4 062 76, 78

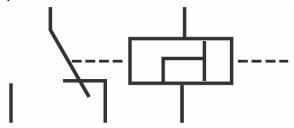


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1. DESCRIPTION - USE

- . Shunt release (ET): allows the remote tripping of the associated device and the remand of the signalling of the tripping by an integrated contact.
- . This device is equipped with a self-tripping contact

Symbol:

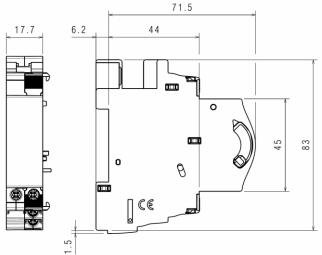


2. RANGE

- . Cat. n° 4 062 76: from 12 to 48 $V \sim /=$ (a.c. / d.c.).
- . Cat. n° $\,$ 4 062 78: from110 to 415 V~ (a.c.) and from110 to 125 V~ $\,$ = (d.c.).

3. OVERALL DIMENSIONS

. 1 module width



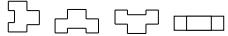
4. PREPARATION - CONNECTION

Fixing:

. 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.

Conductor type:

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

Display of shunt release state:

- . By mechanical indicator on front face:
 - Red: indicates the tripping of the device by the coil. The auxiliary contact of the shunt release is in OFF position.
 - Transparent: the shunt release is in ON position (armed position, ready for tripping). The auxiliary contact of the shunt release is in ON position.

Technical data sheet: F01223EN/03 Updated: 07/07/2023 Created: 15/12/2011

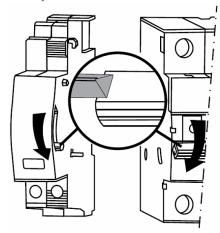
4. PREPARATION -CONNECTION (continued)

Manual actuation of the ET

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

Assembling:

- . On the left side of Legrand MCB, IS, RCCBO,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. $4\,062\,5x\,/\,6x$).
- . If control auxiliaries are associated to devices of 1,5 modules width, is not possible to use signalling aux. $\frac{1}{2}$ module width (cat n° (s) 4 062 50 / 52 / 56 / 58 / 60 / 62): is mandatorily to use signalling auxiliaries 1 module width (cat n° (s) 4 062 64 / 66).

List of allowed associations (Particular rules):

. With an isolating switch DX-IS:

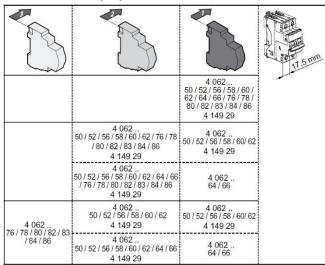
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- only one signalling auxiliary CA type (Cat. n° (s) 4 062 50, 58 64, 66).
- . With a remote trip head isolating switch DX-IS, three auxiliaries maximum which:
 - one or two signalling auxiliaries CA type (Cat. n° (s) 4 062 50, 58 64, 66).
 - one control 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.

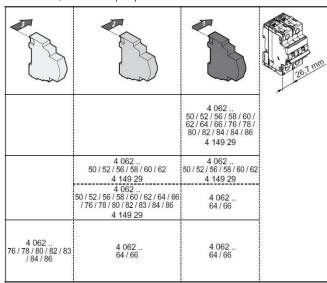
4. PREPARATION - CONNECTION (continued)

Combination tables of the auxiliaries:

. Devices 1 module per pole width:



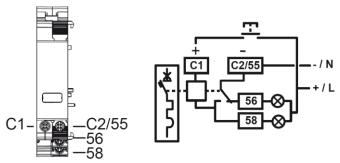
. Devices 1,5 modules per pole width:



Wiring diagrams:

. Cat n 4 062 76.

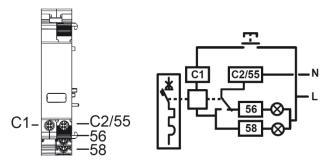
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4. PREPARATION -CONNECTION (continued)

Wiring diagrams: (continued)

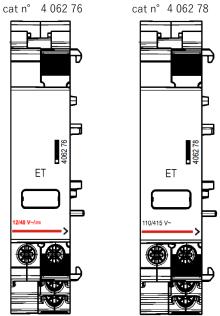
. Cat n 4 062 78



5. GENERAL CHARACTERISTICS

Front face marking:

. By permanent ink pad printing:



- Function name:
 - ET = voltage emission
- Operating voltage range
- Legrand reference code and Logo

Operating voltage range (Un):

- . Cat. n° 4 062 76 :
- from 12 to 48 V \sim /= (a.c. / d.c.).
- . Cat. n° 4 062 78 :
- from 110 to 415 V~ (a.c.)

and from 110 to 125 V = (d.c.).

Operating range (in % of Un):

. 70 to 115% uf Un.

5. GENERAL CHARACTERISTICS (continued)

Tripping time:

 $. \le 20 \text{ ms}.$

Power absorbed:

- . Cat .n° 4 062 76:
 - 12 V d.c. = 5,16 W.
 - -12 V a.c. = 6.12 VA.
 - -48 V d.c. = 56,45 W.
 - 48 V a.c. = 94,56 VA.
- . Cat n° 4 062 78:
 - -110 V d.c. = 6.16 W.
 - 110 V a.c. = 7,97 VA.
 - 125 V d.c. = 7,62 W.
 - -415 V a.c. = 120,76 VA.

Coil impedance:

- . Cat. n° 406 276 : Z = 23 Ω .
- . Cat. n° 406 278 : $Z = 1640 \ \Omega$.

Thermal current:

. Ithe = 6A.

Rated impulse withstand voltage:

. Uimp = 5kV.

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 $^{\circ}$ C to + 70 $^{\circ}$ C.
- . Storage: from $40 \,^{\circ}$ C to + $70 \,^{\circ}$ C.

Enclosure material:

- . Polycarbonate charged 10% glass fiber.
- . Characteristics of this material: self extinguishing, heat and fire resistant according to 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).

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5. GENERAL CHARACTERISTICS (continued)

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 20-010).
- . 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).

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

- . Axes : x, y, z.
- . Frequency range: $5 \div 100 \; \text{Hz}$; duration 90 minutes
- . Displacement (5 ÷ 13,2 Hz) : 1mm
- . Acceleration $(13.2 \div 100 \text{ Hz}) : 0.7g (g=9.81 \text{ m/s}^2)$

Average weight per device:

. 0,081 kg.

Volume when packed:

. 0,21 dm³.

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.

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. 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 $94/62/{\rm EC}$

다 legrand