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DX³ Shunt trip (ET)

Cat N° (s): 4 062 76, 78

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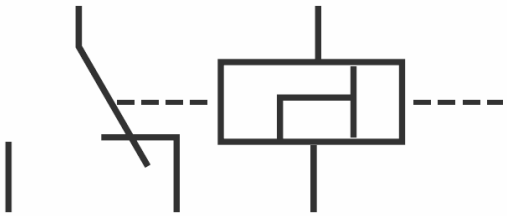
1. DESCRIPTION - USE

. 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:

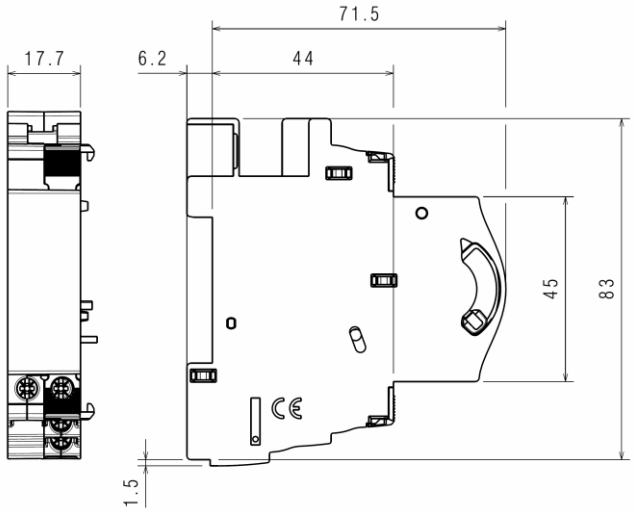


2. RANGE

. Cat. n° 4 062 76: from 12 to 48 V~/= (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



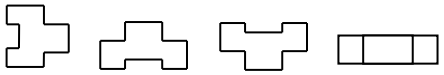
4. PREPARATION -CONNECTION

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 mm² to 1,5 mm² 2 x 1,5 mm²**	-
Flexible Cable	**1 x 0,5 mm² to1,5 mm² 2 x 1,5 mm²**	**1 x 0,5 mm² to 1,5 mm² 2 x 1,5 mm²**

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.

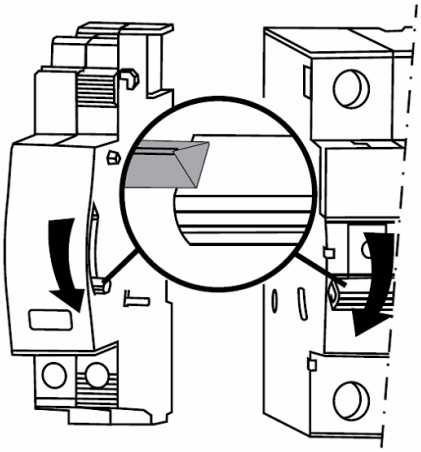
4. PREPARATION –CONNECTION *(continued)*

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. ½ 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:
- only one signalling auxiliary CA type (Cat. n° (s) 4 062 50, 58 64, 66).

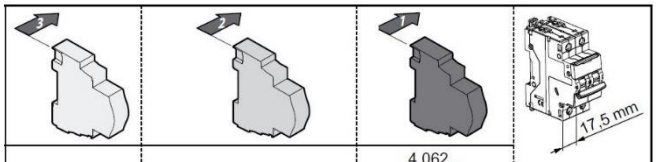
. With a remote trip head isolating switch DX-IS, three auxiliaries maximum which:
- one or two signalling auxiliaries CA type (Cat. n° (s) 4 062 50, 58 64, 66).
- one control auxiliary cat n° (s) 4 062 7x / 8x.

. With a MCB, IS, RCBO,RCCB three auxiliaries maximum which:
- one or two signalling auxiliaries, CA or SD type (Cat. n° (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:



		4 062 .. 50 / 52 / 56 / 58 / 60 / 62 / 64 / 66 / 76 / 78 / 80 / 82 / 83 / 84 / 86 4 149 29
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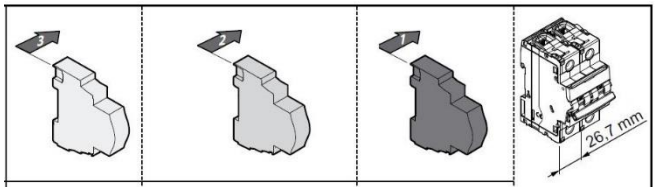
	4 062 .. 50 / 52 / 56 / 58 / 60 / 62 / 64 / 66 4 149 29	4 062 .. 64 / 66

. Devices 1,5 modules per pole width:



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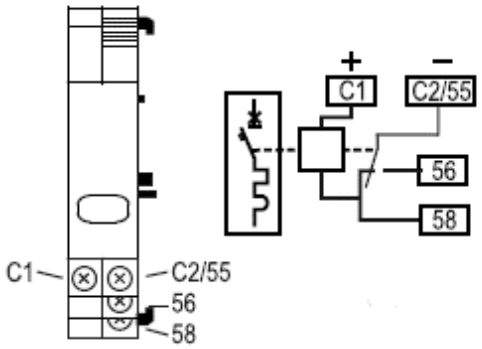
Wiring diagrams:

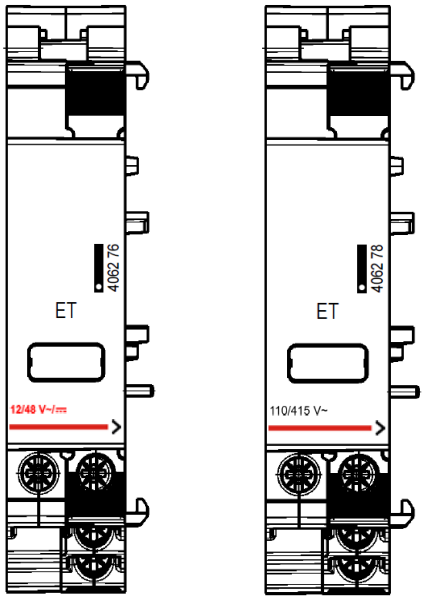


5. GENERAL CHARACTERISTICS

Front face marking:

. By permanent ink pad printing:

cat n° 4 062 76 cat n° 4 062 78



- 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 ~/= (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:

. ≤ 20 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 Ω.

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 ° 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 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).

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 ÷ 100 Hz ; duration 90 minutes
. Displacement (5 ÷ 13,2 Hz) : 1mm
. Acceleration (13,2 ÷ 100 Hz) : 0,7g (g=9,81 m/s^2)

Average weight per device:

. 0,081 kg.

Volume when packed:

. 0,21 dm^3.

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.
. 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