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: from 110 to 415 V~ (a.c.) and from 110 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:

<table>
<thead>
<tr>
<th>Conductor type</th>
<th>Copper cable</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Without ferrule</td>
</tr>
<tr>
<td>Rigid Cable</td>
<td>1 x 0.5 mm² to 1.5 mm²</td>
</tr>
<tr>
<td></td>
<td>2 x 1.5 mm²</td>
</tr>
<tr>
<td>Flexible Cable</td>
<td>1 x 0.5 mm² to 1.5 mm²</td>
</tr>
<tr>
<td></td>
<td>2 x 1.5 mm²</td>
</tr>
</tbody>
</table>

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 maximum. (Cat. n°(s) 4 062 58, 60, 62, 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).

List of allowed associations (Particular rules):

- With an isolating switch DX-IS:
  - only one signalling auxiliary CA type (Cat. n°(s) 4 062 58 or 4 062 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 58 or 4 062 66).
  - one control auxiliary Cat. n°(s) 4 062 7x / 8x.
- With a MCB, IS, RCCBO, RCCB, three auxiliaries maximum which:
  - one or two signalling auxiliaries maximum, CA type or SD type (Cat. n°(s) 4 062 58, 60, 62, 66).
  - one control auxiliary Cat n°(s) 4 062 7x / 8x.

Combinations of the auxiliaries:

Wiring diagrams:

- Cat n° 4 062 76.
- Cat n° 4 062 78.

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### 5. GENERAL CHARACTERISTICS

**Front face marking:**
- By permanent ink pad printing:
  - Cat n° 4 062 76
  - Cat n° 4 062 78

Operating voltage range (Un):
- Cat. n° 4 062 76 : from 24 to 48 V~ (a.c.) / 24 to 48 V d.c.
- Cat. n° 4 062 78 : from 110 to 415 V~ (a.c.) / 125 V d.c.

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

**Operating voltage range (Un):**
- Cat. n° 4 062 76 : from 24 to 48 V ~ (a.c.) / d.c.
- Cat. n° 4 062 78 : from 110 to 415 V ~ (a.c.) / 125 V d.c.

**Operating range (in % of Un):**
- 70 to 115% of Un.

**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:**
- Itthe = 6A.

**Rated impulse withstand voltage:**
- Uimp = 5kV.

**Insulation voltage:**
- Ui = 500 V

**Dielectric strength:**
- 2500 V

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**5. GENERAL CHARACTERISTICS (continued)**

**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).

**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/s²)

**Average weight per device:**
- 0,081 kg.

**Volume when packed:**
- 0,21 dm³.

**6. COMPLIANCE AND APPROVALS**

*In accordance with:
- 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

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