

Signalling auxiliary switch for latching relay and contactor

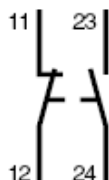
Cat. N°(s) : 4 124 29 / 4 124 30



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1. DESCRIPTION - USE

Symbol :



Technology :

. Mechanical « NO+NC » change-over switch

Use :

. Used to signal the position status, open or closed, of the contacts of the device with which it is associated.

2. RANGE

Auxiliary change-over switches:

- . cat. n° 4 124 29 : change-over switch NO+NC
- . cat. n° 4 124 30 : change-over switch NO+NC

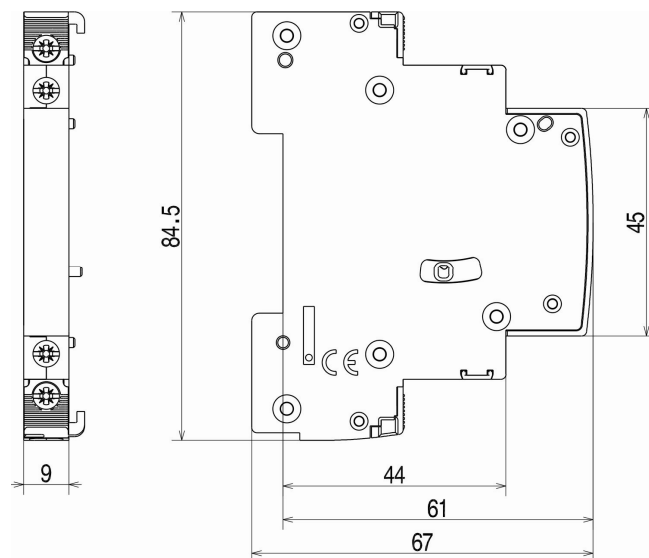
Rated current :

. In = 5 A

Rated voltage :

. Un = 250 V~

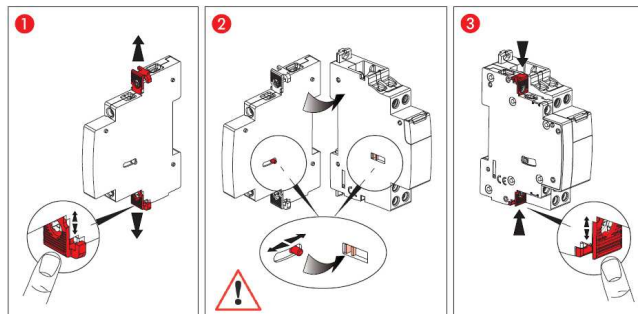
3. OVERALL DIMENSIONS



4. PREPARATION - CONNECTION

Association of the auxiliaries :

- . Auxiliaries are fitted on Legrand latching relay's and contactors left side cat n° 4 12x xx.
- . Fitted with no tool to the associated device by the mean of two plastic clamps.



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4. PREPARATION - CONNECTION (continued)

- . to a contactor : 2 change-over auxiliary switches maximum (2 auxiliaries cat. n° 4 124 29 or 2 auxiliaries cat. n° 4 124 30)
- . to a latching relay : 2 auxiliaries maximum, whether two change-over auxiliary switches (cat. n° 4 124 29), whether one centralized control auxiliary (cat. n° 4 124 33 or 4 124 34) and one change-over auxiliary switch (cat. n° 4 124 29), whether one maintained control auxiliary (cat. n° 4 124 37) and one change-over auxiliary switch (cat. 4 124 29). Auxiliaries Cat. No. 4 124 33, 4 124 34 or 4 124 37 must be placed directly next to the pulse operated latching relay.

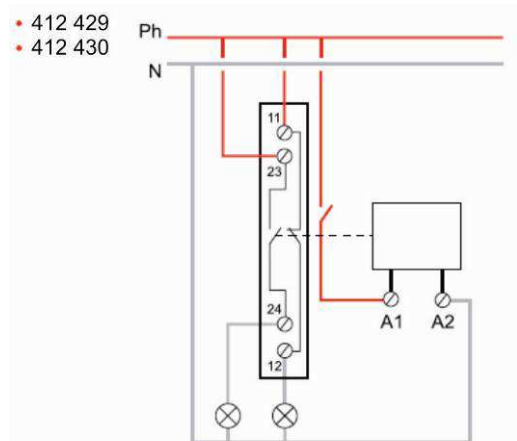
Compatibility :

- . « NC + NO » item cat. n° 4 124 29 can be associated to
 - single pole, double pole and four pole latching relay
 - 16 A and 25 A double pole contactors (« NO+NC », « 2 NO », « 2 NC ») one module wide
- . « NC + NO » auxiliary cat.n° 4 124 30 fits contactors 16 A and 25 A triple pole and four pole (« 2NO+2NC », « 3NO », « 3NO+1NC », « 4NC », « 4NO »), 2 module wide

Installation software :

- . XL PRO

Wiring diagram :



Operating positions :

- . Vertical, horizontal, flat

Fixing :

- . On EN 50-055 or DIN 35 symmetrical rail, by the mean of the associated device

Connection :

- . Terminals protected against direct contact (IP 20 wired device)
- . Cage terminals, with disengageable or captive screws
- . Terminal depth : 8 mm
- . Terminal capacity :
 - 1 x 2.5 mm² flexible (with or without ferrule) ou rigid cable

4. PREPARATION - CONNECTION (continued)

Tools recommended :

- . For terminals : screwdriver, insulated or not, Pozidriv n° 1 or 4 mm blade.

Resistance to tremors :

- . No change of contact state during the "resistance to tremors" test in accordance with EN 60898 standard

Operation :

- . Contacts are operated by the associated latching relay or contactor

Protection degree :

- . Terminal ingress protection : IP2x (device connected) in accordance with IEC 529, EN 60529 and NF C 20-010 standard.
- . Front face ingress protection : IP3XD
- . Classe II, front face behind a cabinet faceplate
- . Protection against mechanical shocks : IK04 according to NF EN 50-102 / NF C 20-015 (juin 1995) standard

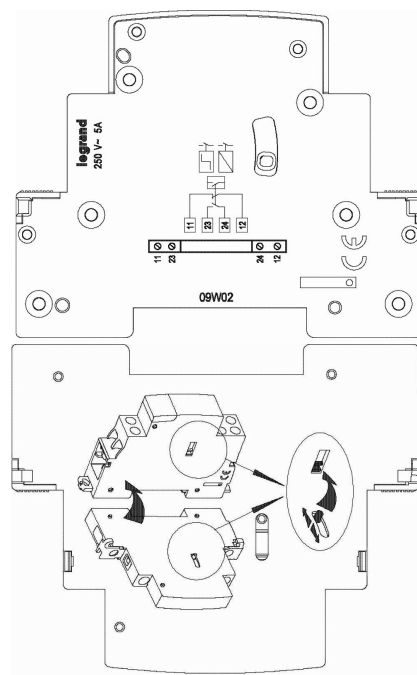
5. GENERAL CHARACTERISTICS :

Marking :

- . Front face, by permanent ink pad printing



- . Side face, by laser marking



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5. GENERAL CHARACTERISTICS (continued) :

Isolation (distance between contacts) :

. > 3 mm

Rated voltage :

. $U_e = 250\text{ V}\sim$

Max operating voltage :

. $250\text{ V}\sim 50/60\text{ Hz}$

. 48 V DC

Insulation rated voltage (U_i) :

. $250\text{ V}\sim$

Insulation voltage between contacts :

. 2000 V

Dielectric strength :

. 2000 V

Electrical shocks withstand rated voltage :

. $U_{imp} = 4\text{ kV}$

Rated frequency :

. $50 / 60\text{ Hz}$

Rated current :

. $I_e = 5\text{ A}$

. derating of the current according to the voltage

U_n	$400\text{ V}\sim$	$230\text{ V}\sim$
I_e	2 A	5 A

Endurance :

. 150 000 off-load changes of position

. 150 000 on-load changes of position (load = 10 incandescent indicator lights)

Weight :

. 0.035 kg

Packaged volume :

. Volume : 2 dm^3

. packaged by one piece

Moulded case material :

. Polyamid

Characteristics of the plastic material :

. Resistance to glow wire during 30 s at 960°C according to IEC 695-2-1

. self-extinguishing according to UL94 V0/V1

Shaking resistance (in accordance to IEC 68.2.6) :

. Axe : x, y, z

. Fréquence : 10 à 55 Hz during 30 minutes

. Accélération : 3 g ($1\text{ g} = 9.81\text{ m.s}^{-2}$)

Height effect :

. no effect up to 4 000 m

6. COMPLIANCE AND APPROVALS

Classification in accordance with Appendix Q: (standard IEC/EN 60947-1)

. Category F

Inter alia: temperature test range $-25^\circ\text{C}/+70^\circ\text{C}$, vibration test 2 Hz to 13.2 Hz with $\pm 1\text{ mm}$ movement, 13.2 Hz to 100 Hz acceleration $\pm 0.7\text{ g}$, salt spray in accordance with IEC 60068-2-52

Respect for the environment – Compliance with European Union

Directives:

. Compliance with Directive 2002/95/EC of 27/01/03 known as "RoHS" which provides for a restriction on the use of dangerous substances such as lead, mercury, cadmium, hexavalent chromium and polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) brominated flame retardants from 1st July 2006

. Compliance with the Directive 91/338/EEC of 18/06/91 and decree 94-647 of 27/07/04

Plastic materials :

. Zero halogen plastic materials

. Labelling compliant with ISO 11469 et ISO 1043.

Packaging :

. Design and manufacture of packaging compliant with decree 98-638 of 20/07/98 and Directive 94/62/EC