



Technical specification



COMPLIANCE WITH STANDARDS

EC 947-5-1, EN 60947 - 5 - 1, VDE 0660 PART 200, ASE 0119, ASE 1003, BS 4794, CSA C22-2 N° 14, UL 508, NEMA, CENELEC EN 50007

HOMOLOGATION

RINA, CSA, UL

CLIMATIC PROTECTION

In normal functioning, T.C. all climates.

TEMPERATURE LIMITS

Functioning $\geq - 25^{\circ}\text{C} \div \leq + 65^{\circ}\text{C}$ - Stocking $\geq - 35^{\circ}\text{C} \div \leq + 70^{\circ}\text{C}$

FUNCTIONING POSITION

All positions $\leftrightarrow \uparrow \downarrow$

KNOCK PROTECTION

11 ms duration with 50g, form 1/2 sinusoid in compliance with IEC 68 - 2 - 27

VIBRATION RESISTANCE

16 g. $40 \geq \div 500 \leq$ Hz in conformity with IEC 68 - 2 - 64

ALTITUDE OF USE

$\leq 3,000$ mt.

PROTECTION LEVEL

Double switch IP 40 - normal, illuminated, lamp, selector switches IP 65 - rubber cap buttons and joisticks IP 66.

ELECTRICAL PROTECTION

Class II double insulation in conformity with IEC 536.

TORQUES

Operator fixing ring $3 \div 3,5$ Nm - Terminal screws $1 \div 1,2$ Nm.

ACTIVATING POWER

Switch with contact NO kg. 0,85 - Additional contacts: NO kg. 0,26 - NC kg. 0,19

MECHANICAL DURATION

Normal, illuminated, mushroom pulse, push-buttons - 2 millions operations Selectors, control levers, jog 500.000 operations. Latch mushroom head: 300.000 operations

POLLUTION

Class 3 according to DIN VDE 0110

OPERATION FREQUENCY

1 operation cycles/hour 1,000 cycles

ASSEMBLY DIMENSIONS⁽¹⁾

Panel with thickness $1 \div 6$ mm - Holes in conformity with CEI EN 60947 - 5 - 1



RATED INSULATION VOLTAGE

690 V CA/CC

INSULATION CLASS

C Group in conformity with VDE 0110

SHORT CIRCUIT PROTECTION

Fuses DIAZED 10A operating class gL/gG shape D II second IEC 269-3-1

RATED THERMAL CURRENT (ITH)

10A open space 25°C - 6A closed space 60°C.

RATED POWER OUTPUT

In conformity with IEC 947-5-1

cat AC15

cat DC 13

Tension Ue	V	24*	48	60	110*	220	380	400*	500	600	Tension Ue	V	24	48	60	110	220
Current Ie	A	10	8	6	6	3	2	1,5	1,5	1,2	Current Ie	A	5	2,7	2	1,1	0,55

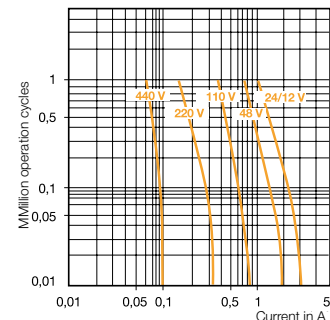
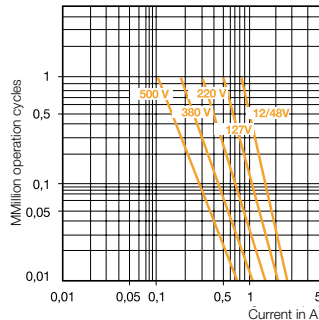
USE CLASS

In conformity with UL - CSA: A600 - P300

ELECTRICAL DURATION

Alternated current 50 \div 60Hz cat AC15

Direct Current cat DC 13



CONTACT RESISTANCE

25mΩ In conformity with IEC 255.7 category 3

CLAMP PROTECTION

IP2X in conformity with IEC 529

CONNECTION⁽²⁾

Screw type terminal with retained clamp. Prepared (open). Combined head screw DIN 7962 - Z2

Closing capacity: $\geq 1 \times 0,5 \text{ mm}^2$, $\leq 2 \times 2,5 \text{ mm}^2$ - Faston tongue 6,5 mm - Solder foot 0,8 x 0,8 mm

In conformity with DIN EN 50013 - 1ST number, assembling order of connection flange.

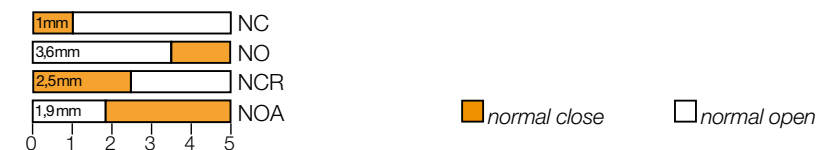
2ND number, element contact function, 1 - 2 NC, 3 - 4 NO

CLAMP IDENTIFICATION

Slow action, sliding autocleaning, positive action, NC \rightarrow

CONTACT FUNCTIONING

CONTACTS TRAVEL AND SWITCHING POINTS



POSITIVE TRIPPING FORCE

15N normal push button. 40N mushroom push button

OPERATION SPEED

max 20 mm/s min 10mm/s

LAMP HOLDER

BA9s connection; incandescence, neon, multiled.

LAMP DURATION⁽³⁾

Recommended power: indicator light 2.6W - pushbuttons, selector 1.2W.

Incandescence $\leq 1,000$ h - Neon $\leq 3,000$ h - Multiled $\geq 50,000$ h

Ausiliari di Comando e Segnalazione Manual Pilot Device

Combinazione di schemi
Diagram combination



SELETTORI
SELECTOR

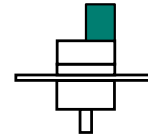
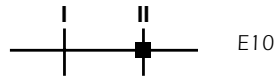
CAMMA
CAM

SCHEMA
DIAGRAM

CONTATTI FLANGIATI
FLANGED CONTACTS



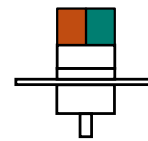
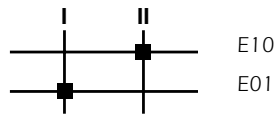
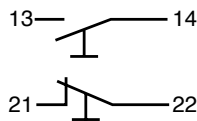
A



020G
020E10



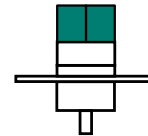
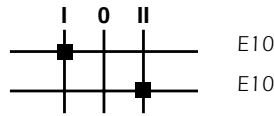
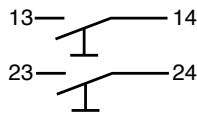
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020G
020E10
020E01



O



020G
020E10
020E10

Dimensioni di ingombro
Overall dimensions

