#### Technical data

## Compliance with standards

IEC 947.5.1 - VDE 0660 - NFC63140 CEI EN60947.5.1 - UTE - BSI - NEMA CENELEC EN 50007

## A p p r o v a l s

UL (U.S.A) - CSA (Ca n a d a) - R INA Lloyd's Register of Shipping - Bureau Veritas

#### Climatic

## protections

The standard versions are suitable for use in the following climates:

Temperate climate cat. 23/50 (DIN 50014)

Wet climate cat. 23/83 (DIN 50015)

Hot wet climate cat. 40/92 (DIN 50015)

Variable wet climate FW24 (DIN 50016)

#### *Temperature*

#### ranges

Operation	-25 °C to + 70 °C
Storage	-40 ℃ to + 70 ℃

## Protection degree of the operators

IP66 according to CENELEC EN 60529 when they are mounted into enclosures with the same or a higher degree of protection. Suitable for using into enclosures type NEMA 1-3-3R-3S-4-4X-12-13 according to UL 508.

## Protection degree of the terminals

IP2x according to CENELEC EN 60529.

#### Shock resistance (acc. to MIL 202 B method 202 A)

1/2 sinusoid 11 ms

No damage or disassembling at 100 g for all devices, except for the illuminated operators with transformer 38 g.

#### Vibration resistance (according to IEC 68-2-6)

16 g with frequency range from 40 to 500 Hz and maximum shifting 0.75 mm (peak-to-peak).

## Rated insulation voltage

690V according to EN 60947.1

## Impulse withstand voltage

4 kV according to EN 60947.1

#### Insulation class

Groep C according VDE 0110



## Electrical shocks protection (acc. IEC 536)

Metal operators	Class I
Plastic operators	Class II (double insulation)

## Short-circuit protection

With fuses 16A gG according to IEC 269.1 and 269.3.

#### Performances of the contacts

- Slow acting
- Self-cleaning sliding
- NC forced breaking
- Double movable bridge
- Four switching points
- Double break

## Electrical resistance of the contact

25 m according to IEC255, cat. 3

#### Identification of the terminals

According CENELEC EN 50013

## Electrical performances

Rated thermal current Ith = 10 A

Performances according IEC 947.5.1

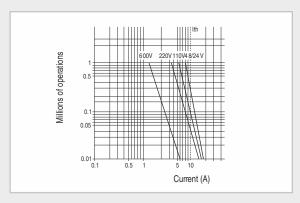
			_							
Categorie AC	15									
Vo Ita g e	Ue	(V)	24	48	60	110	220	380	500	600
Current	le	(A)	10	10	10	6	3	2	1.5	1.2
Categorie DC	13									
Voltage	Ue	(V)	24	48	60	110	220	300		
Currente	le	(A)	2.5	1.4	1	0.55	0.27	0.2		

#### Performances according to CSA and UL

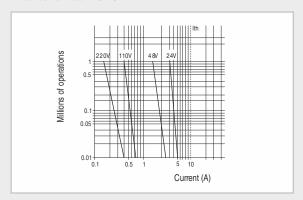
AC HeavyDuty(A600)DC	
StandardDuty(Q300)	

### Electrical endurance

Alternative current 50/60 Hz cat. AC 15



#### Direct current cat. DC 13

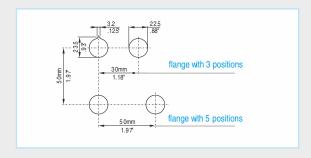


### Mechanical endurance

Joysticks	0.5 Mil./op.

# Mounting

Fitted for panels 1 to 6 mm, thick with holes drilled according to CENELEC EN 50007 standards.



# Rear panel modularity

The P9series is composed with 10mm or a multiple of 10mm modular units ,fitted side by side on a proper mounting flange .

The standard operators are supplied with a three position flange with a capacity of 3units of 10mm or 1 of 10mm and 1 of 20mm or 1 of 30mm. When the three position flange is not enough to satisfy the applications needs ,the five position flange is required to add two more units of 10mm mounted side by side.

Using the five position flange take in to account the bigger with (50mm instead of 30mm).