



# Changeover switches

## Indicators and transducers



### Function

**Voltmeter and ammeter switches** ensure the phase changeover switching on a three-phase circuit for voltage and current measurement.

They are available in two cases:

- with screw fixing
- with a central fixing.

### Characteristics

- Rated current: 16 A.
- Connection via M 3.5 crews.
- IP44 (screw fixing).
- IP65 (central fixing).
- Insulation voltage: 660 V.

### Composition of the range

- Voltmeter switch:
  - 4 positions for reading between phases,
  - 4 positions for reading between phase and neutral,
  - 7 positions for reading between phases and phase and neutral.
- Ammeter switch - 4 positions: 0 - L1 - L2 - L3 with ammeter and 3 CTs (with or without common point).

## References

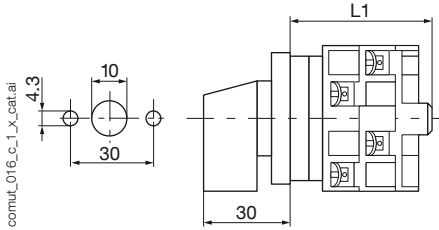
Voltmeter switch			
Number of positions	Type	Screw fixing	Central fixing
		Reference	Reference
4 (phase-to-phase measurement)	SV4 PL/L	192K 0011	192K 1011
4 (phase-to-neutral measurement)	SV4 PL/N	192K 0012	192K 1012
7 (phase-to-phase and phase-to-neutral measurement)	SV7 PL/LN	192K 0013	192K 1013

Ammeter switch			
Number of positions	Type	Screw fixing	Central fixing
		Reference	Reference
4 with common point	SA4 PAP	192K 0022	192K 1022
4 without common point	SA4 PSP	192K 0023	192K 1023

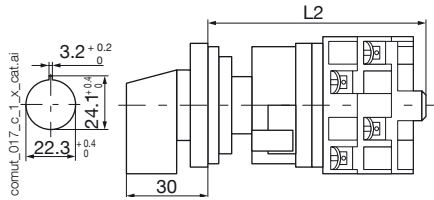
Modular changeover switch					MAC
Number of positions	Measurement	Connection	Admissible voltages between phase and neutral	Number of modules	Reference
					Reference
4	ammeter	TC 1 A ou TC 5 A		3	192K 5000
4	voltmeter PH - PH	115 / 230 / 440 VAC		3	192K 5001
7	voltmeter PH - N + PH - PH	115 / 230 / 440 VAC	115 / 230 / 440 VAC	3	192K 5002

### Dimensions

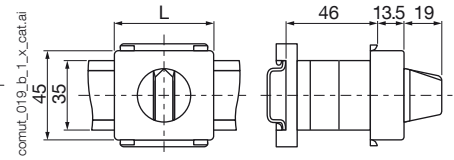
#### Screw fixing



#### Central fixing



#### Com Changeover switch mutateur



Number of positions	Switching type	L1 (mm)
4	voltmètre	44
7	voltmètre	56
4 with common point	ampèremètre	56
4 without common point	ampèremètre	79

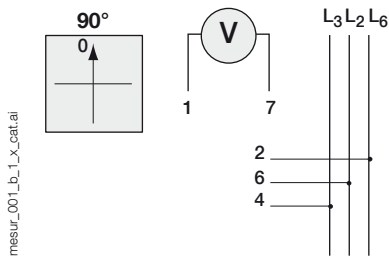
Number of positions	Switching type	L2 (mm)
4	voltmètre	66
7	voltmètre	79
4 with common point	ampèremètre	77
4 without common point	ampèremètre	101

Number of positions	Degree of protection		L (mm)	Mounting
	Front	Terminal		
3	IP44	IP20	52,5	rail DIN 35 mm

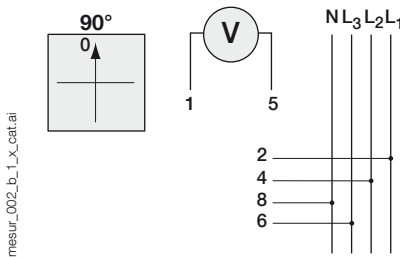
### Connections

#### Voltmeter switch

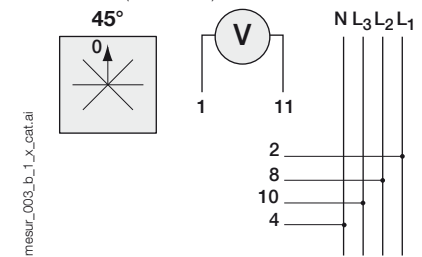
4 positions: phase-to-phase measurement (SV4 PL/L)



4 positions: phase-to-neutral measurement (SV4 PL/N)

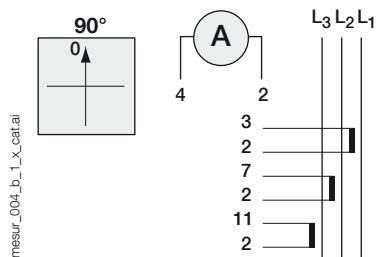


7 positions: phase-to-phase and phase-to-neutral measurement (SV7 PL/LN)

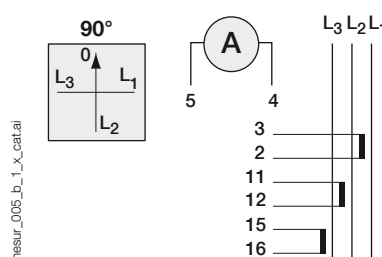


#### Ammeter switch

4 positions with common point (SA4 PAP)

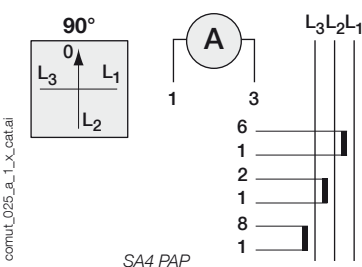


4 positions without common point (SA4 PSP)

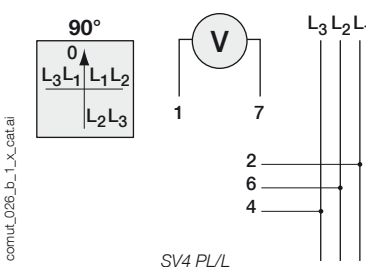


#### Ammeter switch

4 positions with common point



Voltmeter switch - 4 positions: measure phase-phase



Voltmeter switch - 7 positions: phase-to-phase and phase-neutral measurement

