

General characteristics

Switching diagram	66 - Voltmeter switch for phase-neutral and phase-phase voltages
N° of elements	3
Mounting form	O48 - Modular service cover for 35mm din rail mounting with black handle

Contact characteristics

Rated insulation voltage U_i	IEC/EN	V	690
	UL/CSA	V	600
Rated impulse withstand voltage U_{imp}		kV	6
Conventional free air thermal current I_{th}	IEC/EN	A	16
	UL/CSA	A	15
Rated operational voltage		V	480
Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection I_n (gG)	10kA	A	16
	15kA	A	10
	25kA	A	10
Rated short time current I_{cw}	1s	kA	200
Conductivity			10/5 mA/V
Operational current I_e IEC/EN	AC1/AC21A		
		A	16
	AC15		
	110V	A	10
	220/230V	A	8
	380/400V	A	4
	660/690V	A	1.5
	Rated operational power in AC		
	Three-phase AC-3		
	220/230V	kW	2.5
	380/440V	kW	4
	500/690V	kW	5.5
	Single-phase AC-3		
	110V	kW	0.8
	220/230V	kW	1.5
	380/440V	kW	2.2
Three-phase AC23A	Single-phase AC23A		
	110V	kW	0.8
	220/230V	kW	1.7
	380/440V	kW	3
	Three-phase AC23A		
	220/230V	kW	3
	380/440V	kW	5.5
	500/690V	kW	7.5

Rated operational current in DC

DC21A

48V	A	12
60V	A	12
110V	A	4
220V	A	0.6
440V	A	0.25

DC23A (poles in series)

24V	A	10 (1)
48V	A	10 (2)
60V	A	10 (3)
110V	A	5 (3)
220V	A	5 (4)

DC13

24V	A	12
48V	A	10
60V	A	8
110V	A	1
220V	A	0.4
440V	A	0.15

Power dissipation

W 0.8

Mechanical features

Terminals screw

M3

Tightening torque for terminals max

Nm 0.5

Conductor size

AWG - Rigid cable

min	AWG	20
Max	AWG	12

AWG - Flexible cable

min	AWG	20
Max	AWG	14

Conductor size (IEC) - Flexible cable

min	mm ²	0.5
Max	mm ²	2.5

Conductor size (IEC) - Rigid cable

min	mm ²	0.5
Max	mm ²	2.5

Mechanical life

cycles 3x10⁶

UL technical data

Motor power for direct-on-line control

for three-phase motor

120V	HP	1.5
240V	HP	3

for single-phase motor

120V	HP	0.5
240V	HP	1

Ambient conditions

Temperature

Operating temperature

min	°C	-25
max	°C	+55

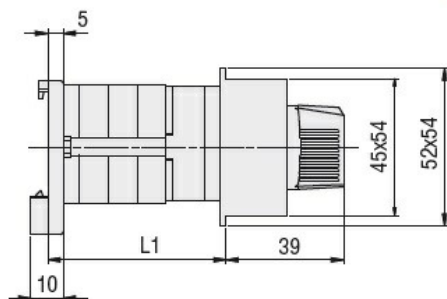
Storage temperature

min	°C	-40
max	°C	+70

Resistance & Protection

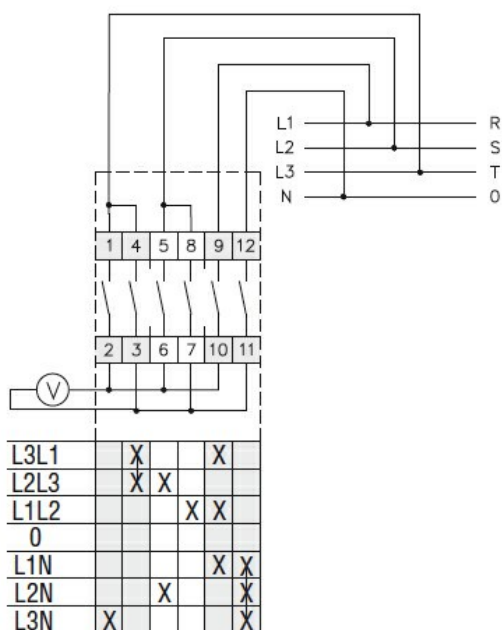
Frontal IP degree	IP40
Terminals IP degree	IP00

Dimensions



Series	L1		
	1	2	3
7GN12	38.1	47.8	57.5
7GN20	38.1	47.8	57.5
7GN25	42.5	56.1	69.7

Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 14
IEC/EN/BS 60947-1
IEC/EN/BS 60947-3
IEC/EN/BS 60947-5-1
UL60947-4-1

Certificates

cCSAus
EAC
UL

ETIM classification

ROTARY CAM SWITCH 7GN SERIES, VOLTMETER SWITCH FOR PHASE-NEUTRAL AND
PHASE-PHASE VOLTAGES 16A, MODULAR SERVICE COVER FOR 35MM DIN RAIL
MOUNTING WITH BLACK HANDLE, FRONT PLATE 45X54MM

ETIM 8.0

EC001029 -
Selector switch,
complete