

Product designation			Rotary cam switches	
Product type designation			7GN12	
General characteristics				
Switching diagram			98 - Ammeter switch	
N° of elements			3	
Mounting form			O48 - Modular service cover for 35mm din rail mounting with black handle	
Contact characteristics				
Rated insulation voltage Ui			IEC/EN V	690
			UL/CSA V	600
Rated impulse withstand voltage Uimp			kV	6
Conventional free air thermal current Ith			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 In (gG)			10kA A	16
			15kA A	10
			25kA A	10
Rated short time current Icw			1s kA	200
Conductivity			10/5 mA/V	
Operational current Ie 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			220/230V kW	3
			380/440V kW	5.5
			500/690V kW	7.5
Single-phase AC23A			110V kW	0.8
			220/230V kW	1.7

		380/440V	kW	3
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	3x10 ⁶
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

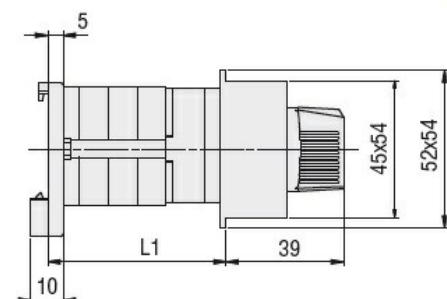
max °C +70

Resistance & Protection

Frontal IP degree IP40

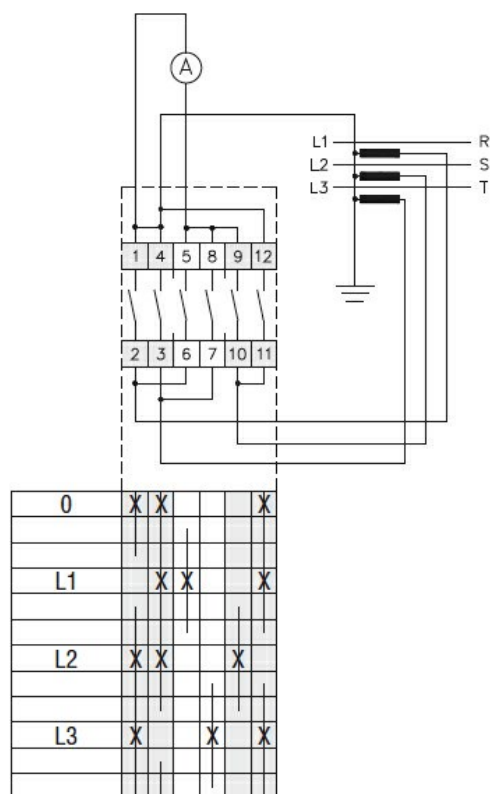
Terminals IP degree IP00

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

ETIM 8.0

EC001029 -
Selector switch,
complete