



Product designation			Rotary cam switches		
Product type designation			7GN20		
General characteristics					
Switching diagram			90 - ON/OFF switch 1 pole		
N° of elements			1		
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	20
			UL/CSA	A	20
Rated operational voltage			V	480	
Rated operational impulse voltage			kV	4	
Maximum fuse size for short-circuit protection In (gG)			10kA	A	20
			15kA	A	16
			25kA	A	16
Rated short time current Icw			1s	kA	250
Conductivity			10/5 mA/V		
Operational current Ie IEC/EN					
AC1/AC21A			A	20	
AC15			110V	A	10
			220/230V	A	8
			380/400V	A	6
			660/690V	A	1.5
Rated operational power in AC					
Three-phase AC-3			220/230V	kW	3
			380/440V	kW	5.5
			500/690V	kW	5.5
Single-phase AC-3			110V	kW	0.8
			220/230V	kW	2.2
			380/440V	kW	3

Three-phase AC23A			
	220/230V	kW	5
	380/440V	kW	7.5
	500/690V	kW	7.5
Single-phase AC23A			
	110V	kW	0.8
	220/230V	kW	2.5
	380/440V	kW	3.7
Rated operational current in DC			
DC21A			
	48V	A	20
	60V	A	20
	110V	A	4
	220V	A	0.6
	440V	A	0.25
DC23A (poles in series)			
	24V	A	20 (1)
	48V	A	20 (2)
	60V	A	20 (3)
	110V	A	10 (3)
	220V	A	8 (4)
DC13			
	24V	A	20
	48V	A	16
	60V	A	12
	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	5x10 ⁶
UL technical data			
Motor power for direct-on-line control			
for three-phase motor			
	120V	HP	1.5
	240V	HP	3
	480V	HP	7.5
	600V	HP	10
for single-phase motor			

120V	HP	0.75
240V	HP	2

Ambient conditions

Temperature

Operating temperature

min	°C	-25
max	°C	+55

Storage temperature

min	°C	-40
max	°C	+70

Resistance & Protection

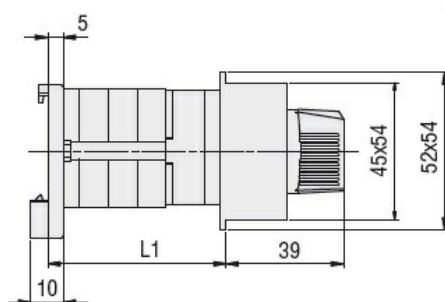
Frontal IP degree

IP40

Terminals IP degree

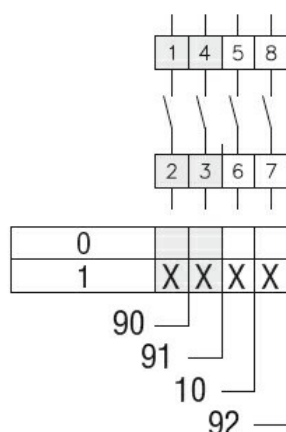
IP00

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

ROTARY CAM SWITCH 7GN SERIES, ON-OFF SWITCH 1 POLE 20A, MODULAR SERVICE COVER FOR 35MM DIN RAIL MOUNTING WITH BLACK HANDLE, FRONT PLATE 45X54MM

cCSAus

EAC

UL

ETIM classification

ETIM 8.0

EC001029 -
Selector switch,
complete