

Product designation	Rotary cam switches			
Product type designation	7GN20			
General characteristics				
Switching diagram	56 - Changeover switch without 0 3 poles			
N° of elements	3			
Mounting form	U - Front 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 5x10⁶

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

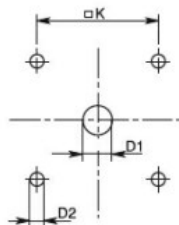
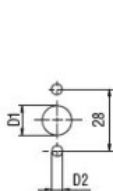
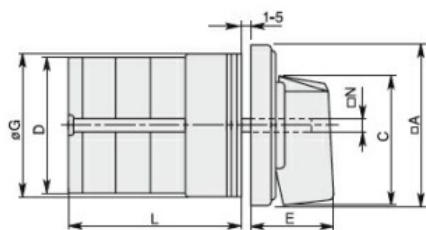
Storage temperature

min	°C	-40
max	°C	+70

Resistance & Protection

Frontal IP degree	IP40
Terminals IP degree	IP00

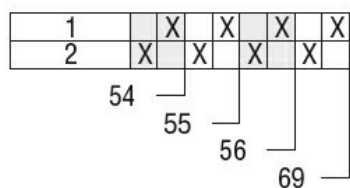
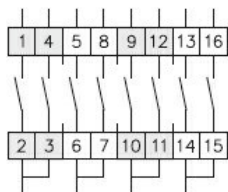
Dimensions



Standard drillings for 7GN125.
Drillings on request for 4 screws fixing
(4V version).

Series	Dimensions									L Number of elements											
	□A	C	ØD	ØD1	ØD2	E	ØG	□K	□N	1	2	3	4	5	6	7	8	9	10	11	12
7GN12	48	39.5	39	12	5	26.5	38	36	6	36.1	45.8	55.5	65.2	74.9	84.6	94.3	104	113.7	123.4	133.1	142.8
7GN20	48	39.5	39	12	5	26.5	38	36	6	36.1	45.8	55.5	65.2	74.9	84.6	94.3	104	113.7	123.4	133.1	142.8
7GN25	48	39.5	43	12	5	26.5	38	36	6	40.5	54.1	67.7	81.3	94.9	108.5	122.1	135.7	147.3	162.9	176.5	190.1
7GN32	65	53	58	14	5	34.5	58.5	48	7	46.5	61.6	76.7	91.8	106.9	122	137.1	152.2	167.3	182.4	197.5	212.6
7GN40	65	53	58	14	5	34.5	58.5	48	7	46.5	61.6	76.7	91.8	106.9	122	137.1	152.2	167.3	182.4	197.5	212.6
7GN63	65	53	62	14	5	34.5	58.5	48	7	50.3	68.4	86.5	104.6	122.7	140.8	158.9	177	195.1	213.2	231.3	249.4
7GN125	90	70.5	86	16	6	41.5	84	68	9	67.3	96.4	125.5	154.6	183.7	220.3	249.4	278.5	307.6	336.7	365.8	394.9

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

EC001105 - Off-
load switch