

Product designation	Rotary cam switches
Product type designation	7GN40
General characteristics	
Switching diagram	66 - Voltmeter switch for phase-neutral and phase-phase voltages
N° of elements	3
Mounting form	U - Front 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 40 UL/CSA A 50
Rated operational voltage	V 480
Rated operational impulse voltage	kV 4
Maximum fuse size for short-circuit protection I_n (gG)	10kA A 40 15kA A 40 25kA A 40 50kA A 40 63kA A 40
Rated short time current I_{cw}	1s kA 1000
Conductivity	10/5 mA/V
Operational current I_e IEC/EN	
AC1/AC21A	A 40
AC15	
110V A 25	
220/230V A 22	
380/400V A 12	
660/690V A 2	
Rated operational power in AC	
Three-phase AC-3	
220/230V kW 8	
380/440V kW 15	
500/690V kW 15	
Single-phase AC-3	
110V kW 3	
220/230V kW 6.5	
380/440V kW 8	
Three-phase AC23A	
220/230V kW 8	
380/440V kW 18.5	
500/690V kW 22	

Single-phase AC23A	110V	kW	3
	220/230V	kW	6
	380/440V	kW	11
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Rated operational current in DC			
DC21A	48V	A	40
	60V	A	40
	110V	A	6
	220V	A	0.9
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DC23A (poles in series)	24V	A	40 (1)
	48V	A	40 (2)
	60V	A	40 (3)
	110V	A	20 (3)
	220V	A	12 (4)
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DC13	24V	A	40
	48V	A	32
	60V	A	16
	110V	A	3
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Power dissipation		W	2.0
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Mechanical features			
Terminals screw			M4
Tightening torque for terminals max		Nm	1.2
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Conductor size			
AWG - Rigid cable	min	AWG	16
	Max	AWG	8
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AWG - Flexible cable	min	AWG	16
	Max	AWG	10
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Conductor size (IEC) - Flexible cable	min	mm ²	1.5
	Max	mm ²	6
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Conductor size (IEC) - Rigid cable	min	mm ²	1.5
	Max	mm ²	10
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Mechanical life		cycles	5x10 ⁶
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UL technical data			
Motor power for direct-on-line control			
for three-phase motor	120V	HP	5
	240V	HP	10
	480V	HP	20
	600V	HP	20
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for single-phase motor	120V	HP	2
	240V	HP	5
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Ambient conditions			
Temperature			
Operating temperature	min	°C	-25
	max	°C	+55

Storage temperature

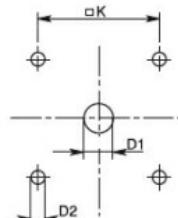
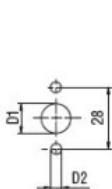
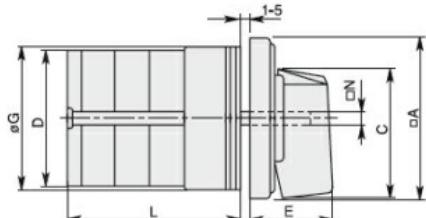
min °C -40
max °C +70

Resistance & Protection

Frontal IP degree IP40

Terminals IP degree IP00

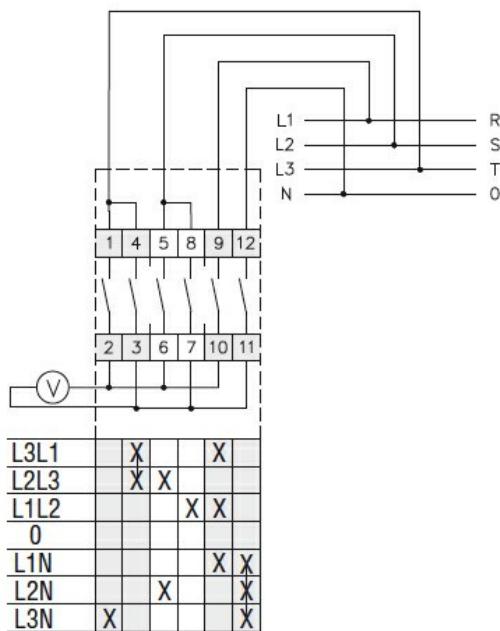
Dimensions



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

Series	Dimensions									L Number of elements											
	øA	C	øD	øD1	øD2	E	øG	øK	øN	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

EC001029 -
Selector switch,
complete