



# ROTARY CAM SWITCH 7GN SERIES, MULTI-STEP 1-2-3-4, 3 POLES 20A, FOR FRONT MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

Product designation			Rotary cam switches
Product type designation			7GN20
General characteristics			
Switching diagram			94 - Multi-step 1- 2-3-4 3 poles
N° of elements			6
Mounting form			U - Front mounting with black handle
Contact characteristics			black Hariale
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	Α	20
	UL/CSA	Α	20
Rated operational voltage		V	480
Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection In (gG)	401.4		0.0
	10kA	A	20
	15kA 25kA	A A	16 16
Rated short time current Icw	ZUKA		10
Nated Short time current low	1s	kA	250
Conductivity	10	10.1	10/5 mA/V
Operational current le IEC/EN			10/0 11/7 0
AC1/AC21A			
		Α	20
AC15			
	110V	Α	10
	220/230V	Α	8
	380/400V	Α	6
	660/690V	Α	1.5
Rated operational power in AC			
Three-phase AC-3			
	220/230V	kW	3
	380/440V	kW	5.5
0: 1 1 100	500/690V	kW	5.5
Single-phase AC-3	4401/	12///	0.0
	110V 220/230V	kW kW	0.8
	220/230V 380/440V	kW kW	2.2 3
Three-phase AC23A	300/440 V	L/V/	3
Hilee-phase AOZSA	220/230V	kW	5
	380/440V	kW	7.5
	500/690V	kW	7.5
Single-phase AC23A			
3 1	110V	kW	0.8
	220/230V	kW	2.5
	380/440V	kW	3.7





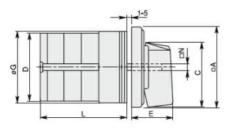
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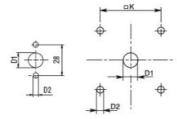
	DC21A				
	DOZIA	48V	Α	20	
		60V	A	20	
		110V	A	4	
		220V	A	0.6	
		440V		0.6	
	DC22A (nolog in coriog)	440 V	Α	0.25	
	DC23A (poles in series)	241/	۸	20 (4)	
		24V	A	20 (1)	
		48V	A	20 (2)	
		60V	A	20 (3)	
		110V	Α	10 (3)	
		220V	Α	8 (4)	
	DC13	201			
		24V	Α	20	
		48V	Α	16	
		60V	Α	12	
		110V	Α	1	
		220V	Α	0.4	
		440V	Α	0.15	
Power dissipation			W	0.8	
Mechanical features					
Terminals screw				M3	
Tightening torque for te	erminals max		Nm	0.5	
Conductor size					
	AWG - Rigid cable				
	, o	min	AWG	20	
		Max	AWG	12	
	AWG - Flexible cable	Max	7,,,,		
	AVVO T TEXIBLE GABLE	min	AWG	20	
		Max	AWG	14	
	Conductor size (IEC) Flexible coble	IVIAX	AWG	14	
	Conductor size (IEC) - Flexible cable			0.5	
		min	mm²	0.5	
		Max	mm²	2.5	
	Conductor size (IEC) - Rigid cable				
	Conductor size (IEC) - Rigid cable				
	Conductor Size (IEO) Trigid cable	min	mm²	0.5	
	Trigid cable	min Max	mm²	2.5	
Mechanical life	Trigid cable				
UL technical data			mm²	2.5	
	-on-line control		mm²	2.5	
UL technical data		Max	mm² cycles	2.5 5x10 <sup>6</sup>	
UL technical data	-on-line control	Max 120V	mm² cycles	2.5 5x10 <sup>6</sup>	
UL technical data	-on-line control	120V 240V	mm² cycles HP	2.5 5x10° 1.5 3	
UL technical data	-on-line control	Max 120V	mm² cycles	2.5 5x10 <sup>6</sup>	
UL technical data	-on-line control	120V 240V	mm² cycles HP	2.5 5x10° 1.5 3	
UL technical data	-on-line control	120V 240V 480V	mm² cycles  HP HP HP	2.5 5x10 <sup>6</sup> 1.5 3 7.5	
UL technical data	-on-line control for three-phase motor	120V 240V 480V	mm² cycles  HP HP HP	2.5 5x10 <sup>6</sup> 1.5 3 7.5	
UL technical data	-on-line control for three-phase motor	120V 240V 480V 600V	mm² cycles  HP HP HP HP	2.5 5x10 <sup>6</sup> 1.5 3 7.5 10	
UL technical data	-on-line control for three-phase motor	120V 240V 480V 600V	mm² cycles  HP HP HP HP	2.5 5x10 <sup>6</sup> 1.5 3 7.5 10	
UL technical data Motor power for direct-	-on-line control for three-phase motor	120V 240V 480V 600V	mm² cycles  HP HP HP HP	2.5 5x10 <sup>6</sup> 1.5 3 7.5 10	
UL technical data  Motor power for direct-	-on-line control for three-phase motor  for single-phase motor	120V 240V 480V 600V	mm² cycles  HP HP HP HP	2.5 5x10 <sup>6</sup> 1.5 3 7.5 10	
UL technical data  Motor power for direct-	-on-line control for three-phase motor	120V 240V 480V 600V	mm² cycles  HP HP HP HP	2.5 5x10 <sup>6</sup> 1.5 3 7.5 10	
UL technical data  Motor power for direct-	-on-line control for three-phase motor  for single-phase motor	120V 240V 480V 600V 120V 240V	mm² cycles  HP HP HP HP HP	2.5 5x10 <sup>6</sup> 1.5 3 7.5 10 0.75 2	
UL technical data Motor power for direct-	-on-line control for three-phase motor  for single-phase motor  Operating temperature	120V 240V 480V 600V 120V 240V	mm² cycles  HP HP HP HP	2.5 5x10 <sup>6</sup> 1.5 3 7.5 10	
UL technical data  Motor power for direct-	-on-line control for three-phase motor  for single-phase motor	120V 240V 480V 600V 120V 240V	mm² cycles  HP HP HP HP HP	2.5 5x10 <sup>6</sup> 1.5 3 7.5 10 0.75 2	



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Resistance & Protection
Frontal IP degree
IP40
Terminals IP degree
IP00
Dimensions

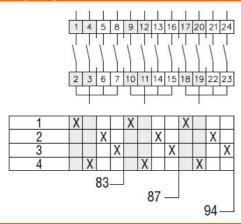




Standard drillings for 7GN125. Drillings on request for 4 screws fixing (4V version).

Series	Dimensions									L Number of elements											
Series	ΠA	С	ØD	ØD1	ØD2	Е	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

02000

Certificates

cCSAus

EAC

UL

ETIM classification

**ETIM 8.0** 

EC001029 -Selector switch, complete