



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

Product designation			Rotary cam switches
Product type designation			7GN20
General characteristics			
Switching diagram			87 - Multi-step 1- 2-3-4 2 poles
N° of elements			4
Mounting form			O - Rear mounting with black handle
Contact characteristics			Diagramatic
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	150/51		
	IEC/EN UL/CSA	A	20 20
Rated operational voltage	UL/C5A	A V	480
Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection In (gG)		100	'
(90)	10kA	Α	20
	15kA	Α	16
	25kA	Α	16
Rated short time current lcw			
	1s	kA	250
Conductivity			10/5 mA/V
Operational current le IEC/EN			
AC1/AC21A		Α	20
AC15			20
AOTO	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
Single-phase AC-3	500/690V	kW	5.5
Silligie-pliase 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
<del></del>	500/690V	kW	7.5
Single-phase AC23A	440)/		0.0
	110V	kW	0.8
	220/230V 380/440V	kW kW	2.5 3.7
Rated operational current in DC	300/ <del>44</del> 0 V	IN V V	J.1





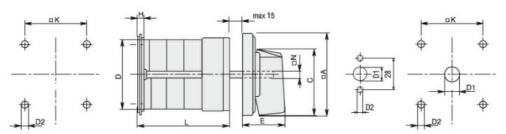
# ROTARY CAM SWITCH 7GN SERIES, MULTI-STEP 1-2-3-4, 2 POLES 20A, FOR REAR MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

	DC21A				
	DOZTA	48V	Α	20	
		60V	A	20	
		110V	A	4	
		220V	A	0.6	
		440V	A	0.25	
	DC23A (poles in series)	7701		0.20	
	20207 (poice in conce)	24V	Α	20 (1)	
		48V	A	20 (2)	
		60V	A	20 (3)	
		110V	A	10 (3)	
		220V	A	8 (4)	
	DC13	2201		0 (1)	
	2010	24V	Α	20	
		48V	Α	16	
		60V	A	12	
		110V	A	1	
		220V	A	0.4	
		440V		0.4	
Power dissipation		440 V	— A W	0.15	
Mechanical features			VV	0.0	
Terminals screw				M3	
Tightening torque for te	arminals may		Nm	0.5	
Conductor size	errillias max		INIII	0.5	
Conductor Size	AWG - Rigid cable				
	AVVG - Rigid Cable	min	AWG	20	
		Max	AWG	12	
	AWG - Flexible cable	IVIAX	AWG	12	
	AVVG - Flexible cable		A1A/C	20	
		min	AWG	20	
		1/0			
	Conductor size (IFC) Florible coble	Max	AWG	14	
	Conductor size (IEC) - Flexible cable				
	Conductor size (IEC) - Flexible cable	min	mm²	0.5	
	Conductor size (IEC) - Flexible cable  Conductor size (IEC) - Rigid cable	min Max	mm² mm²	0.5 2.5	
		min Max min	mm² mm²	0.5 2.5 0.5	
Machaniaellife		min Max	mm² mm² mm² mm²	0.5 2.5 0.5 2.5	
Mechanical life		min Max min	mm² mm²	0.5 2.5 0.5	_
UL technical data	Conductor size (IEC) - Rigid cable	min Max min	mm² mm² mm² mm²	0.5 2.5 0.5 2.5	
	Conductor size (IEC) - Rigid cable	min Max min	mm² mm² mm² mm²	0.5 2.5 0.5 2.5	
UL technical data	Conductor size (IEC) - Rigid cable	min Max min Max	mm² mm² mm² mm² cycles	0.5 2.5 0.5 2.5 5x10 <sup>6</sup>	
UL technical data	Conductor size (IEC) - Rigid cable	min Max min Max	mm² mm² mm² mm² cycles	0.5 2.5 0.5 2.5 5x10 <sup>6</sup>	_
UL technical data	Conductor size (IEC) - Rigid cable	min Max min Max 120V 240V	mm² mm² mm² cycles	0.5 2.5 0.5 2.5 5x10 <sup>6</sup>	_
UL technical data	Conductor size (IEC) - Rigid cable	min Max min Max 120V 240V 480V	mm² mm² mm² cycles	0.5 2.5 0.5 2.5 5x10 <sup>6</sup> 1.5 3 7.5	_
UL technical data	Conductor size (IEC) - Rigid cable on-line control for three-phase motor	min Max min Max 120V 240V	mm² mm² mm² cycles	0.5 2.5 0.5 2.5 5x10 <sup>6</sup>	
UL technical data	Conductor size (IEC) - Rigid cable	min Max min Max 120V 240V 480V 600V	mm² mm² mm² cycles	0.5 2.5 0.5 2.5 5x10 <sup>6</sup> 1.5 3 7.5	
UL technical data	Conductor size (IEC) - Rigid cable on-line control for three-phase motor	min Max min Max 120V 240V 480V 600V	mm² mm² mm² cycles	0.5 2.5 0.5 2.5 5x10 <sup>6</sup> 1.5 3 7.5 10	_
UL technical data Motor power for direct-	Conductor size (IEC) - Rigid cable on-line control for three-phase motor	min Max min Max 120V 240V 480V 600V	mm² mm² mm² cycles	0.5 2.5 0.5 2.5 5x10 <sup>6</sup> 1.5 3 7.5	
UL technical data Motor power for direct-	Conductor size (IEC) - Rigid cable on-line control for three-phase motor	min Max min Max 120V 240V 480V 600V	mm² mm² mm² cycles	0.5 2.5 0.5 2.5 5x10 <sup>6</sup> 1.5 3 7.5 10	
UL technical data Motor power for direct-	Conductor size (IEC) - Rigid cable  on-line control for three-phase motor  for single-phase motor	min Max min Max 120V 240V 480V 600V	mm² mm² mm² cycles	0.5 2.5 0.5 2.5 5x10 <sup>6</sup> 1.5 3 7.5 10	
UL technical data Motor power for direct-	Conductor size (IEC) - Rigid cable on-line control for three-phase motor	min Max min Max 120V 240V 480V 600V 120V 240V	mm² mm² mm² cycles	0.5 2.5 0.5 2.5 5x10 <sup>6</sup> 1.5 3 7.5 10	
UL technical data Motor power for direct-	Conductor size (IEC) - Rigid cable  on-line control for three-phase motor  for single-phase motor	min Max min Max 120V 240V 480V 600V 120V 240V	mm² mm² mm² cycles  HP HP HP HP HP	0.5 2.5 0.5 2.5 5x10 <sup>6</sup> 1.5 3 7.5 10	
UL technical data Motor power for direct-	Conductor size (IEC) - Rigid cable  on-line control for three-phase motor  for single-phase motor  Operating temperature	min Max min Max 120V 240V 480V 600V 120V 240V	mm² mm² mm² cycles	0.5 2.5 0.5 2.5 5x10 <sup>6</sup> 1.5 3 7.5 10	
UL technical data Motor power for direct-	Conductor size (IEC) - Rigid cable  on-line control for three-phase motor  for single-phase motor	min Max min Max 120V 240V 480V 600V 120V 240V	mm² mm² mm² cycles  HP HP HP HP HP	0.5 2.5 0.5 2.5 5x10 <sup>6</sup> 1.5 3 7.5 10	



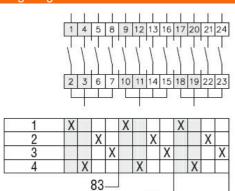
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	max	°C	+70
Resistance & Protection			
Frontal IP degree			IP40
Terminals IP degree			IP00
Dimensions			



Series	Dimensions							L Number of elements												
Series	□A	С	ØD	ØD2	Е	Н	□K	□N	1	2	3	4	5	6	7	8	9	10	11	12
7GN12	48	39.5	39	5	26.5	5	36	6	38.1	47.8	57.5	67.2	76.9	86.6	96.3	106	115.7	125.4	135.1	144.8
7GN20	48	39.5	39	5	26.5	5	36	6	38.1	47.8	57.5	67.2	76.9	86.6	96.3	106	115.7	125.4	135.1	144.8
7GN25	48	39.5	43	5	26.5	5	36	6	42.5	56.1	69.7	83.3	96.9	110.5	124.1	137.7	151.3	164.9	178.5	192.1
7GN32	65	53	58	5	34.5	5.5	48	7	48.5	63.6	78.7	93.8	108.9	124	139.1	154.2	169.3	184.4	199.5	214.6
7GN40	65	53	58	5	34.5	5.5	48	7	48.5	63.6	78.7	93.8	108.9	124	139.1	154.2	169.3	184.4	199.5	214.6
7GN63	65	53	62	6	34.5	7.5	68	7	53.3	71.4	89.5	107.6	125.7	143.8	161.9	180	198.1	216.2	234.3	252.4
7GN125	90	70.5	86	6	41.4	7.5	68	9	74.8	103.9	133	162.1	191.2	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

94 -

IEC/EN/BS 60947-3

IEC/EN/BS 60947-5-1

UL60947-4-1

Certificates

cCSAus

87 -

EAC

UL

ETIM classification

**ETIM 8.0** 

EC001029 -Selector switch, complete