



Product designation			Rotary cam switches
Product type designation			7GN20
General characteristics			
Switching diagram			03 - ON/OFF spring return switch 3 poles
N° of elements			2
Mounting form			O - Rear mounting with black handle
Contact characteristics			
Rated insulation voltage Ui			
	IEC/EN UL/CSA	V V	690 600
Rated impulse withstand voltage Uimp		kV	6
Conventional free air thermal current Ith			
	IEC/EN	А	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 25kA	A A	16 16
Rated short time current Icw	ZJKA	A	10
Nated short time current icw	1s	kA	250
Conductivity	13	N/A	10/5 mA/V
Operational current le IEC/EN			10/0 11/0 0
AC1/AC21A			
		А	20
AC15			
	110V	А	10
	220/230V	А	8
	380/400V	А	6
	660/690V	А	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	44014	1.1.1.7	0.0
	110V	kW	0.8
	220/230V 380/440V	kW kW	2.2 3
Three-phase AC23A	300/440V	L A A	5

Three-phase AC23A

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**7GN2003O** ROTARY CAM SWITCH 7GN SERIES, ON-OFF SPRING RETURN SWITCH 3 POLES 20A, FOR REAR MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

		220/230V	kW	5
		380/440V	kW	7.5
		500/690V	kW	7.5
	Single phase AC22A	500/090V	K V V	1.5
	Single-phase AC23A	110V	L\\\/	0.0
			kW	0.8
		220/230V	kW	2.5
Deterlane entire al aum		380/440V	kW	3.7
Rated operational cur				
	DC21A	40) (	٨	00
		48V	A	20
		60V	A	20
		110V	A	4
		220V	A	0.6
		440V	A	0.25
	DC23A (poles in series)			
		24V	А	20 (1)
		48V	А	20 (2)
		60V	А	20 (3)
		110V	А	10 (3)
		220V	А	8 (4)
	DC13			
		24V	А	20
		48V	А	16
		60V	А	12
		110V	А	1
		220V	А	0.4
		440V	А	0.15
Power dissipation			W	0.8
Mechanical features				M3
Mechanical features Terminals screw	terminals max			M3
Mechanical features Terminals screw Tightening torque for t	terminals max		Nm	M3 0.5
Mechanical features Terminals screw				
Mechanical features Terminals screw Tightening torque for t	terminals max AWG - Rigid cable	min	Nm	0.5
Mechanical features Terminals screw Tightening torque for t		min May	Nm	0.5
Mechanical features Terminals screw Tightening torque for t	AWG - Rigid cable	min Max	Nm	0.5
Mechanical features Terminals screw Tightening torque for t		Max	Nm AWG AWG	0.5 20 12
Mechanical features Terminals screw Tightening torque for t	AWG - Rigid cable	Max min	Nm AWG AWG AWG	0.5 20 12 20
Mechanical features Terminals screw Tightening torque for t	AWG - Rigid cable AWG - Flexible cable	Max	Nm AWG AWG	0.5 20 12
Mechanical features Terminals screw Tightening torque for t	AWG - Rigid cable	Max min Max	Nm AWG AWG AWG AWG	0.5 20 12 20 14
Mechanical features Terminals screw Tightening torque for t	AWG - Rigid cable AWG - Flexible cable	Max min Max min	Nm AWG AWG AWG AWG mm <sup>2</sup>	0.5 20 12 20 14 0.5
Mechanical features Terminals screw Tightening torque for t	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable	Max min Max	Nm AWG AWG AWG AWG	0.5 20 12 20 14
Mechanical features Terminals screw Tightening torque for t	AWG - Rigid cable AWG - Flexible cable	Max min Max min Max	Nm AWG AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup>	0.5 20 12 20 14 0.5 2.5
Mechanical features Terminals screw Tightening torque for t	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable	Max min Max min Max min	Nm AWG AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup>	0.5 20 12 20 14 0.5 2.5 0.5
Mechanical features Terminals screw Tightening torque for t Conductor size	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable	Max min Max min Max	Nm AWG AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup>	0.5 20 12 20 14 0.5 2.5 0.5 2.5
Mechanical features Terminals screw Tightening torque for t Conductor size	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable	Max min Max min Max min	Nm AWG AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup>	0.5 20 12 20 14 0.5 2.5 0.5
Mechanical features Terminals screw Tightening torque for t Conductor size Mechanical life UL technical data	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable	Max min Max min Max min	Nm AWG AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup>	0.5 20 12 20 14 0.5 2.5 0.5 2.5
Mechanical features Terminals screw Tightening torque for t Conductor size	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable	Max min Max min Max min	Nm AWG AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup>	0.5 20 12 20 14 0.5 2.5 0.5 2.5
Mechanical features Terminals screw Tightening torque for t Conductor size Mechanical life UL technical data	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable	Max min Max min Max min Max	Nm AWG AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> cycles	0.5 20 12 20 14 0.5 2.5 0.5 2.5 5x10 <sup>6</sup>
Mechanical features Terminals screw Tightening torque for t Conductor size Mechanical life UL technical data	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable	Max min Max min Max 120V	Nm AWG AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> cycles	0.5 20 12 20 14 0.5 2.5 0.5 2.5 5x10 <sup>6</sup> 1.5
Mechanical features Terminals screw Tightening torque for t Conductor size Mechanical life UL technical data	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable	Max min Max min Max Max 120V 240V	Nm AWG AWG AWG Mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> cycles	0.5 20 12 20 14 0.5 2.5 0.5 2.5 5x10 <sup>6</sup> 1.5 3
Mechanical features Terminals screw Tightening torque for t Conductor size Mechanical life UL technical data	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable	Max min Max min Max min Max	Nm AWG AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> cycles	0.5 20 12 20 14 0.5 2.5 0.5 2.5 5x10 <sup>6</sup> 1.5 3 7.5
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Mechanical features Terminals screw Tightening torque for t Conductor size Mechanical life UL technical data	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable	Max min Max min Max min Max	Nm AWG AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> cycles	0.5 20 12 20 14 0.5 2.5 0.5 2.5 5x10 <sup>6</sup> 1.5 3 7.5

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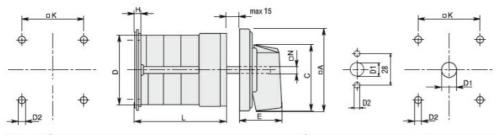


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#### 240V ΗP 2 Ambient conditions Temperature Operating temperature °C -25 min

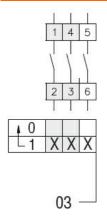
	max	°C	+55	
Storage temperature				
	min	°C	-40	
	max	°C	+70	
Resistance & Protection				
Frontal IP degree			IP40	
Terminals IP degree			IP00	

## Dimensions



Series	Dimensions						L Number of elements													
Series	□A	С	ØD	ØD2	Е	Н	٥K	۵N	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
	IEC/EN/BS 60947-3
	IEC/EN/BS 60947-5-1
	UL60947-4-1
0	

Certificates

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ENERGY AND AUTOMATION

**ETIM 8.0** 

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cCSAus EAC UL ETIM classification EC001105 - Off-

load switch