



Product designation				Rotary cam
-				switches
Product type designation General characteristics				7GN20
				90 - ON/OFF
Switching diagram				switch 1 pole
N° of elements				1
				U - Front
Mounting form				mounting with
				black handle
Contact characteristics				
Rated insulation voltage Ui				
		IEC/EN	V	690
Deter Line Line Martine Line	Record Press	UL/CSA	V	600
Rated impulse withstand vo			kV	6
Conventional free air therm	ai current ith	IEC/EN	А	20
		UL/CSA	A	20 20
Rated operational voltage		00/03A	X	480
Rated operational impulse	voltage		kV	4
Maximum fuse size for sho			ΚV	7
	rt chedit protection in (ge)	10kA	А	20
		15kA	A	16
		25kA	A	16
Rated short time current Icv	N			
		1s	kA	250
Conductivity				10/5 mA/V
Operational current le IEC/	EN			
AC	C1/AC21A			
			Α	20
AC	215			
		110V	A	10
		220/230V	A	8
		380/400V	A	6
Dated anarational neuror in	<u>AC</u>	660/690V	A	1.5
Rated operational power in	ree-phase AC-3			
111	ree-phase AC-3	220/230V	kW	3
		380/440V	kW	5 5.5
		500/690V	kW	5.5
Sir	ngle-phase AC-3			
		110V	kW	0.8
		220/230V	kW	2.2
		380/440V	kW	3
Th	ree-phase AC23A			
		220/230V	kW	5

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The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



7GN2090U electric ROTARY CAM SWITCH 7GN SERIES, ON-OFF SWITCH 1 POLE 20A, FOR FRONT MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

		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 cur	rrent in DC			
·	DC21A			
		48V	А	20
		60V	А	20
		110V	А	4
		220V	А	0.6
		440V	A	0.25
	DC23A (poles in series)			
		24V	А	20 (1)
		48V	A	20 (2)
		40V 60V	A	20 (2)
		110V	A	
		220V	A	10 (3) 8 (4)
		2200	A	8 (4)
	DC13	24V	۸	20
			A	20
		48V	A	16
		60V	A	12
		110V	A	1
		220V	А	0.4
		440V	A	0.15
Power dissipation			W	0.8
Mechanical features				
Terminals screw				М3
Terminals screw Tightening torque for	terminals max		Nm	M3 0.5
Terminals screw	terminals max		Nm	
Terminals screw Tightening torque for	terminals max AWG - Rigid cable		Nm	
Terminals screw Tightening torque for		min	Nm	
Terminals screw Tightening torque for		min Max		0.5
Terminals screw Tightening torque for			AWG	0.5
Terminals screw Tightening torque for	AWG - Rigid cable		AWG	0.5
Terminals screw Tightening torque for	AWG - Rigid cable	Max	AWG AWG	0.5 20 12
Terminals screw Tightening torque for	AWG - Rigid cable AWG - Flexible cable	Maxmin	AWG AWG AWG	0.5 20 12 20
Terminals screw Tightening torque for	AWG - Rigid cable	Maxmin	AWG AWG AWG	0.5 20 12 20
Terminals screw Tightening torque for	AWG - Rigid cable AWG - Flexible cable	Max min Max	AWG AWG AWG AWG	0.5 20 12 20 14 0.5
Terminals screw Tightening torque for	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable	Max min Max min	AWG AWG AWG AWG mm ²	0.5 20 12 20 14
Terminals screw Tightening torque for	AWG - Rigid cable AWG - Flexible cable	Max min Max min Max	AWG AWG AWG AWG mm ² mm ²	0.5 20 12 20 14 0.5 2.5
Terminals screw Tightening torque for	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable	Max min Max min Max min	AWG AWG AWG AWG mm ² mm ²	0.5 20 12 20 14 0.5 2.5 0.5
Terminals screw Tightening torque for Conductor size	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable	Max min Max min Max	AWG AWG AWG AWG mm ² mm ² mm ²	0.5 20 12 20 14 0.5 2.5 0.5 2.5
Terminals screw Tightening torque for Conductor size	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable	Max min Max min Max min	AWG AWG AWG AWG mm ² mm ²	0.5 20 12 20 14 0.5 2.5 0.5
Terminals screw Tightening torque for 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	AWG AWG AWG AWG mm ² mm ² mm ²	0.5 20 12 20 14 0.5 2.5 0.5 2.5
Terminals screw Tightening torque for Conductor size	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable	Max min Max min Max min	AWG AWG AWG AWG mm ² mm ² mm ²	0.5 20 12 20 14 0.5 2.5 0.5 2.5
Terminals screw Tightening torque for 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	AWG AWG AWG Mm ² mm ² mm ² cycles	0.5 20 12 20 14 0.5 2.5 0.5 2.5 5x10 ⁶
Terminals screw Tightening torque for 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	AWG AWG AWG mm ² mm ² mm ² cycles	0.5 20 12 20 14 0.5 2.5 0.5 2.5 5x10 ⁶ 1.5
Terminals screw Tightening torque for 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	AWG AWG AWG mm ² mm ² mm ² cycles	0.5 20 12 20 14 0.5 2.5 0.5 2.5 5x10 ⁶ 1.5 3
Terminals screw Tightening torque for 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 120V 240V 480V	AWG AWG AWG mm ² mm ² mm ² cycles	0.5 20 12 20 14 0.5 2.5 0.5 2.5 5x10 ⁶ 1.5 3 7.5
Terminals screw Tightening torque for Conductor size Mechanical life UL technical data	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable t-on-line control for three-phase motor	Max min Max min Max min Max	AWG AWG AWG mm ² mm ² mm ² cycles	0.5 20 12 20 14 0.5 2.5 0.5 2.5 5x10 ⁶ 1.5 3
Terminals screw Tightening torque for 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 120V 240V 480V 600V	AWG AWG AWG mm ² mm ² mm ² cycles	0.5 20 12 20 14 0.5 2.5 0.5 2.5 5x10 ⁶ 1.5 3 7.5 10
Terminals screw Tightening torque for Conductor size Mechanical life UL technical data	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable t-on-line control for three-phase motor	Max min Max min Max min Max 120V 240V 480V	AWG AWG AWG mm ² mm ² mm ² cycles	0.5 20 12 20 14 0.5 2.5 0.5 2.5 5x10 ⁶ 1.5 3 7.5

7GN2090U



ENERGY AND AUTOMATION

7GN2090U ROTARY CAM SWITCH 7GN SERIES, ON-OFF SWITCH 1 POLE 20A, FOR FRONT MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

Ambient conditions Temperature

. emperatere				
	Operating temperature			
		min	°C	-25
		max	°C	+55
	Storage temperature			
		min	°C	-40
		max	°C	+70
Resistance & Protect	ion			
Frontal IP degree				IP40
Terminals IP degree				IP00
Dimensions				
Wiring diagrams				

5 4 8 2 3 6 7 0 1 X X X 90 91 -10 92

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 - Offload switch