electric ROTARY CAM SWITCH 7GN SERIES, AMMETER SWITCH 20A, FOR FRONT MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM **ENERGY AND AUTOMATION**



Product designation			Rotary cam
•			switches
Product type designation			7GN20
General characteristics			98 - Ammeter
Switching diagram			switch
N° of elements			3
			U - Front
Mounting form			mounting with
			black handle
Contact characteristics			
Rated insulation voltage Ui	IEO/EN		222
	IEC/EN	V	690
Potod impulse withstand voltage Llimp	UL/CSA	V kV	600
Rated impulse withstand voltage Uimp Conventional free air thermal current Ith		KV	0
Conventional nee all thermal current till	IEC/EN	Α	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	Α	20
	15kA	Α	16
	25kA	Α	16
Rated short time current Icw			
	1s	kA	250
Conductivity			10/5 mA/V
Operational current le IEC/EN			
AC1/AC21A		•	00
A 0.4 F		Α	20
AC15	110V	Α	10
	220/230V	A	8
	380/400V	A	6
	660/690V	Α	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			
	110V	kW	0.8
	220/230V	kW	2.2
	380/440V	kW	3
Three-phase AC23A	000/0001/	1.347	_
	220/230V	kW	5



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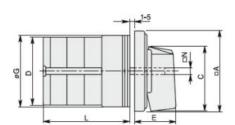
		380/440V	kW	7.5
		500/690V	kW	7.5
	0'	300/0901	K V V	1.5
	Single-phase AC23A			
		110V	kW	0.8
		220/230V	kW	2.5
		380/440V	kW	3.7
Rated operational cu	urrent in DC			
	DC21A			
	B02171	48V	Α	20
		60V	Α	20
		110V	Α	4
		220V	Α	0.6
		440V	Α	0.25
	DC23A (poles in series)			
	20207 (10000 111 001100)	24V	Α	20 (1)
		48V	A	20 (2)
		60V	Α	20 (3)
		110V	Α	10 (3)
		220V	Α	8 (4)
	DC13			
		24V	Α	20
		48V	A	16
		60V	Α	12
		110V	Α	1
		220V	Α	0.4
		440V	Α	0.15
Power dissipation			W	0.8
Mechanical features				
Medianical realares				
Torminala caray				MO
Terminals screw	ata and a day		NI	M3
Tightening torque fo	r terminals max		Nm	M3 0.5
			Nm	
Tightening torque fo	r terminals max AWG - Rigid cable		Nm	
Tightening torque fo		min		0.5
Tightening torque fo		min Max	AWG	20
Tightening torque fo	AWG - Rigid cable	min Max		0.5
Tightening torque fo		Max	AWG AWG	0.5 20 12
Tightening torque fo	AWG - Rigid cable	Max min	AWG AWG	0.5 20 12 20
Tightening torque fo	AWG - Rigid cable AWG - Flexible cable	Max	AWG AWG	0.5 20 12
Tightening torque fo	AWG - Rigid cable	Max min	AWG AWG	0.5 20 12 20
Tightening torque fo	AWG - Rigid cable AWG - Flexible cable	Max min	AWG AWG	0.5 20 12 20
Tightening torque fo	AWG - Rigid cable AWG - Flexible cable	Max min Max min	AWG AWG AWG AWG	0.5 20 12 20 14 0.5
Tightening torque fo	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable	Max min Max	AWG AWG AWG AWG	0.5 20 12 20 14
Tightening torque fo	AWG - Rigid cable AWG - Flexible cable	Max min Max min Max	AWG AWG AWG AWG	0.5 20 12 20 14 0.5 2.5
Tightening torque fo	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable	Max min Max min Max min	AWG AWG AWG AWG mm² mm²	0.5 20 12 20 14 0.5 2.5 0.5
Tightening torque fo Conductor size	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable	Max min Max min Max	AWG AWG AWG AWG mm² mm²	0.5 20 12 20 14 0.5 2.5
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Tightening torque fo 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	AWG AWG AWG AWG mm² mm² cycles	0.5 20 12 20 14 0.5 2.5 0.5 2.5 5x10 ⁶ 1.5 3
Tightening torque fo 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 AWG mm² mm² cycles	0.5 20 12 20 14 0.5 2.5 0.5 2.5 5x10 ⁶ 1.5 3 7.5
Tightening torque fo 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	AWG AWG AWG AWG mm² mm² cycles	0.5 20 12 20 14 0.5 2.5 0.5 2.5 5x10 ⁶ 1.5 3
Tightening torque fo 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 AWG mm² mm² cycles	0.5 20 12 20 14 0.5 2.5 0.5 2.5 5x10 ⁶ 1.5 3 7.5
Tightening torque fo Conductor size Mechanical life UL technical data	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable ect-on-line control for three-phase motor	Max min Max min Max min Max 120V 240V 480V 600V	AWG AWG AWG AWG mm² mm² cycles	0.5 20 12 20 14 0.5 2.5 0.5 2.5 5x10 ⁶ 1.5 3 7.5 10
Tightening torque fo Conductor size Mechanical life UL technical data	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable ect-on-line control for three-phase motor	Max min Max min Max min Max 120V 240V 480V	AWG AWG AWG AWG mm² mm² cycles	0.5 20 12 20 14 0.5 2.5 0.5 2.5 5x10 ⁶ 1.5 3 7.5

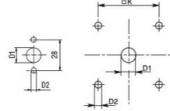


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Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-25
		max	°C	+55
	Storage temperature			
		min	°C	-40
		max	°C	+70
Resistance & Protecti	on			
Frontal IP degree				IP40
Terminals IP degree			•	IP00
Dimensions				





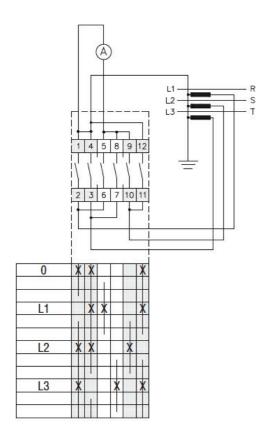
Standard drillings for 7GN125. Drillings on request for 4 screws fixing (4V version).

Corios	Dimensions									L Number of elements											
Series	□A	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

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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 - Off-load switch