

# **7GN20850** ROTARY CAM SWITCH 7GN SERIES, MULTI-STEP 1-2-3-4-5-6, 1 POLE 20A, FOR REAR MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

Product designation			Rotary cam
Product type designation			switches 7GN20
General characteristics			7 GIN20
Switching diagram			85 - Multi-step 1- 2-3-4-6 1 pole
N° of elements			3
Mounting form			O - Rear mounting with black handle
Contact characteristics			
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	A	20
Rated operational voltage	UL/CSA	A V	20 480
Rated operational impulse voltage		kV	480
Maximum fuse size for short-circuit protection In (gG)		ΚV	7
	10kA	А	20
	15kA	A	16
	25kA	А	16
Rated short time current Icw			
	1s	kA	250
Conductivity			10/5 mA/V
Operational current le IEC/EN			
AC1/AC21A			
		A	20
AC15	4401/	۸	10
	110V 220/230V	A A	10 8
	380/400V	A	6
	660/690V	A	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
Three phase AC22A	380/440V	kW	3
Three-phase AC23A	220/230V	kW	5
	220/230V 380/440V	кvv kW	5 7.5
	500/690V	kW	7.5
Single-phase AC23A	000/000 V	12.0.0	1.0
Single phase Nozon	110V	kW	0.8
	220/230V	kW	2.5
	380/440V	kW	3.7

### Rated operational current in DC

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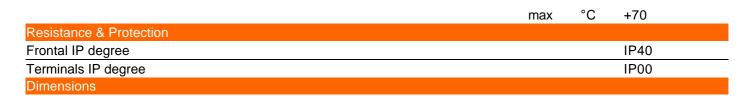
	00044			
	DC21A	40\/	^	20
		48V 60V	A	20 20
		110V	A A	4
		220V	A	4 0.6
		220V 440V	A	0.25
	DC23A (poles in series)	1101	7.	0.20
		24V	А	20 (1)
		48V	А	20 (2)
		60V	А	20 (3)
		110V	А	10 (3)
		220V	А	8 (4)
	DC13			
		24V	А	20
		48V	А	16
		60V	А	12
		110V	А	1
		220V	А	0.4
		440V	А	0.15
Power dissipation			W	0.8
Mechanical features				
Terminals screw				M3
Tightening torque for te	erminals max		Nm	0.5
Conductor size				
	AWG - Rigid cable	_		
		min	AWG	20
		Max	AWG	12
	AWG - Flexible cable			
		min	AWG	20
		Max	AWG	14
	Conductor size (IEC) - Flexible cable			0.5
		min Max	mm²	0.5
	Conductor size (IEC) - Rigid cable	IVIAX	mm²	2.5
		min	mm²	0.5
		Max	mm²	2.5
Mechanical life		IVIAN	cycles	5x10 <sup>6</sup>
UL technical data			Cycles	5,10
Motor power for direct-	on-line control			
	for three-phase motor			
		120V	HP	1.5
		240V	HP	3
				7.5
		480V	HP	
		480V 600V	HP HP	10
	for single-phase motor			
	for single-phase motor			
	for single-phase motor	600V	HP	10
Ambient conditions	for single-phase motor	600V 120V	HP HP	10 0.75
Ambient conditions Temperature		600V 120V	HP HP	10 0.75
	for single-phase motor Operating temperature	600V 120V 240V	HP HP HP	10 0.75 2
		600V 120V 240V min	HP HP HP °C	10 0.75 2 -25
	Operating temperature	600V 120V 240V	HP HP HP	10 0.75 2
		600V 120V 240V min	HP HP HP °C	10 0.75 2 -25

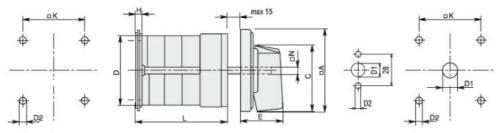
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The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently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



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Series				Dimer	nsions								LI	Number	of eler	nents				
Series	□A	С	ØD	ØD2	Е	Н	۵K	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



					X	1
			Х			2
Γ	Х					3
				Х		4
Γ		Х				5
)						6

#### Certifications and compliance

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	n	
ETIM 8.0		EC001029 - Selector switch, complete