

# **7GN2085P** ENCLOSED ROTARY CAM SWITCH 7GN SERIES, MULTI-STEP 1-2-3-4-5-6, 1 POLE 20A IN PLASTIC ENCLOSURE 75X75MM WITH BLACK HANDLE

Product designation			Enclosed rotary cam switch
Product type designation			7GN20
General characteristics			
Switching diagram			85 - Multi-step 1- 2-3-4-6 1 pole
N° of elements			3
Mounting form			P - Plastic enclosure 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	23KA	A	10
	1s	А	250
Conductivity	15	7.	10/5 mA/V
Operational current le IEC/EN			
AC1/AC21A			
		А	20
AC15			
	110V	А	10
	220/230V	А	8
	380/400V	А	6
	660/690V	A	1.5
Rated operational power in AC			
Three-phase AC-3	000/0001/	1-147	0
	220/230V 380/440V	kW kW	3 5.5
	500/690V	kW	5.5
Single-phase AC-3	300/030 V	KVV	0.0
	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
	500/690V	kW	7.5
Single-phase AC23A			
	110V	kW	0.8
	220/230V	kW	2.5
Rated operational current in DC	380/440V	kW	3.7

# Rated operational current in DC

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	D0014				
	DC21A	401/	^	20	
		48V	A	20	
		60V	A	20	
		110V	A	4	
		220V	A	0.6	
		440V	A	0.25	
	DC23A (poles in series)	<b>2</b> 1) /		<b>22</b> (1)	
		24V	A	20 (1)	
		48V	A	20 (2)	
		60V	A	20 (3)	
		110V	A	10 (3)	
		220V	A	8 (4)	
	DC13		_		
		24V	A	20	
		48V	A	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	terminals max		Nm	0.5	
Conductor size					
	AWG - Rigid cable				
	C C	min	AWG	20	
		Max	AWG	12	
	AWG - Flexible cable				
		min	AWG	20	
		Max	AWG	14	
	Conductor size (IEC) - Flexible cable	Max		••	
	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 mm²	0.5 2.5 0.5	
Mechanical life		min Max	mm² mm² mm² mm²	0.5 2.5 0.5 2.5	
Mechanical life		min Max min	mm² 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	mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> 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	mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> 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	mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> cycles HP HP	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	mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> cycles HP HP HP	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	min Max min Max 120V 240V	mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> cycles HP HP	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	mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> cycles 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	Conductor size (IEC) - Rigid cable	min Max min Max 120V 240V 480V 600V 120V	mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> cycles HP HP HP HP HP	0.5 2.5 0.5 2.5 5x10 <sup>6</sup> 1.5 3 7.5 10 0.75	
UL technical data Motor power for direc	Conductor size (IEC) - Rigid cable	min Max min Max 120V 240V 480V 600V	mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> cycles 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 direc	Conductor size (IEC) - Rigid cable	min Max min Max 120V 240V 480V 600V 120V	mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> cycles HP HP HP HP HP	0.5 2.5 0.5 2.5 5x10 <sup>6</sup> 1.5 3 7.5 10 0.75	
UL technical data Motor power for direc	Conductor size (IEC) - Rigid cable   ct-on-line control for three-phase motor   for single-phase motor	min Max min Max 120V 240V 480V 600V 120V	mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> cycles HP HP HP HP HP	0.5 2.5 0.5 2.5 5x10 <sup>6</sup> 1.5 3 7.5 10 0.75	
UL technical data Motor power for direc	Conductor size (IEC) - Rigid cable	min Max min Max 120V 240V 480V 600V 120V 240V	mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> cycles HP HP HP HP HP	0.5 2.5 0.5 2.5 5x10 <sup>6</sup> 1.5 3 7.5 10 0.75 2	
UL technical data Motor power for direc	Conductor size (IEC) - Rigid cable   ct-on-line control for three-phase motor   for single-phase motor	min Max min Max 120V 240V 480V 600V 120V 240V 240V	mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> cycles HP HP HP HP HP HP	0.5 2.5 0.5 2.5 5x10 <sup>6</sup> 1.5 3 7.5 10 0.75 2	
UL technical data Motor power for direc	Conductor size (IEC) - Rigid cable   ct-on-line control for three-phase motor   for single-phase motor   Operating temperature	min Max min Max 120V 240V 480V 600V 120V 240V	mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> cycles HP HP HP HP HP	0.5 2.5 0.5 2.5 5x10 <sup>6</sup> 1.5 3 7.5 10 0.75 2	
UL technical data Motor power for direc	Conductor size (IEC) - Rigid cable   ct-on-line control for three-phase motor   for single-phase motor	min Max min Max 120V 240V 480V 600V 120V 240V 240V	mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> cycles HP HP HP HP HP HP	0.5 2.5 0.5 2.5 5x10 <sup>6</sup> 1.5 3 7.5 10 0.75 2	

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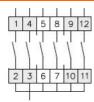
The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



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											m	ax	°C	+70
Resistance & Pro	otection													
Frontal IP degree	<del>)</del>													IP65
Terminals IP deg														IP00
Dimensions	100													11 00
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	Number of elements			<i>1</i>	1	Dimer						Cable	Protection degree	
SIZE	L L1	A	A1	C	C1	D	F	М	N	L	L1	entry	degree	
7GN12 75x75	1-2 3-4	75	75	50		45	10		00	F7 6	70.0	4.0010 5	IDOC	
7GN20 7GN25	1-2 <u>3-4</u> 1 2-3	75	75	50	64	4.5	19	14	28	57.5	79.8	4xPG13.5	IP65	
7GN12 90x90	1-3 4-6					-	6							
7GN20	1-3 4-6													
7GN25	1-2 3-4	90	90	79	63	4.5	25	19	30	71.3	98.3	4xPG16	IP65	
7GN32	1-2 3-4		0.001	10000	00000	12002-0-04			2.00					
7GN40	1 2-3													
7GN12 110x110	1-4 5-8													
7GN20 7GN25	1-4 5-8 1-3 4-5													
7GN25 7GN32	1-3 4-5 1-3 4-5	110	110	98.4	83	4.5	32	21	39.5	85.5	119.5	4xPG21	IP65	
7GN40	1-2 3-5													
7GN63	1-2 3-4													
7GN32 125x175	1-3 4-5				C	C	С			с	С			
7GN40	1-2 3-4	125	175	146	112	5.5	32	21	68	84.3	118.3	4xPG21	IP65	
7GN63	1-2 3-4	120	110	140	112	0.0	UL	-1	00	04.0	110.0	2xPG11	1100	
7GN125	1 2													
7GN32 180x254 7GN40	1-5 6-8 1-4 5-7											4xPG29		
7GN63	1-3 4-6	180	254	120	190	5.5	32	35	76	121	175	4xPG29 2xPG11	IP65	
7GN125	1-2 3-4													
Wiring diagrams								<u> </u>				ļ	••••••	

Wiring diagrams



1 Х 2 Х 3 Х 4 X 5 Х 6 X 85

### Certifications and compliance

## Compliance

Compliance		
	IEC/EN/BS 60947-1	
	IEC/EN/BS 60947-3	
	IEC/EN/BS 60947-5-1	
Certificates		

#### C ertificates

Certimodies	
	EAC
ETIM classification	



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ETIM 8.0

EC001029 -Selector switch, complete