

# ENCLOSED ROTARY CAM SWITCH 7GN SERIES, CHANGEOVER SWITCH 4 POLES 20A IN PLASTIC ENCLOSURE 75X75MM WITH BLACK HANDLE

Product designation			Rotary cam switches
Product type designation			7GN20
General characteristics			
Switching diagram			75 - Changeover switch 4 poles
N° of elements			4
Mounting form			P - Plastic enclosure with black handle
Contact characteristics			Black Harraio
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	150/5N		0.0
	IEC/EN UL/CSA	A	20 20
Rated operational voltage	UL/C5A	A V	480
Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection In (gG)		100	'
(30)	10kA	Α	20
	15kA	Α	16
	25kA	Α	16
Rated short time current lcw			
	1s	kA	250
Conductivity			10/5 mA/V
Operational current le IEC/EN			
AC1/AC21A		Α	20
AC15			20
AOTO	110V	Α	10
	220/230V	Α	8
	380/400V	Α	6
	660/690V	Α	1.5
Rated operational power in AC			
Three-phase AC-3			
	220/230V	kW	3
	380/440V	kW	5.5
Single-phase AC-3	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			
•	220/230V	kW	5
	380/440V	kW	7.5
- <del></del> -	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



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	DC044				
	DC21A	40\/	۸	20	
		48V	A	20	
		60V	A	20	
		110V	Α	4	
		220V	Α	0.6	
		440V	Α	0.25	
	DC23A (poles in series)				
		24V	Α	20 (1)	
		48V	Α	20 (2)	
		60V	Α	20 (3)	
		110V	Α	10 (3)	
		220V	Α	8 (4)	
	DC13				
		24V	Α	20	
		48V	Α	16	
		60V	Α	12	
		110V	Α	1	
		220V	Α	0.4	
		440V	Α	0.15	
Power dissipation			W	0.8	
Mechanical features				0.0	
Terminals screw				M3	
Tightening torque for te	arminals may		Nm	0.5	
Conductor size	errilliais max		INIII	0.5	
Conductor Size	AWC Bigid poble				
	AWG - Rigid cable		AWG	20	
		min		20	
	AMO EL III III	Max	AWG	12	
	AWG - Flexible cable				
		min	AWG	20	
		Max	AWG	14	
	Conductor size (IEC) - Flexible cable				
		min	mm²	0.5	
		min Max	mm² mm²	0.5 2.5	
	Conductor size (IEC) - Rigid cable				
	Conductor size (IEC) - Rigid cable			0.5	
	Conductor size (IEC) - Rigid cable	Max	mm²	2.5	
Mechanical life	Conductor size (IEC) - Rigid cable	Max min	mm²	0.5	
UL technical data		Max min	mm² mm² mm²	2.5 0.5 2.5	
		Max min	mm² mm² mm²	2.5 0.5 2.5	
UL technical data		Max min	mm² mm² mm²	2.5 0.5 2.5	
UL technical data	-on-line control	Max min	mm² mm² mm²	2.5 0.5 2.5	
UL technical data	-on-line control	Max min Max	mm² mm² mm² cycles	2.5 0.5 2.5 5x10 <sup>6</sup>	
UL technical data	-on-line control	Max min Max	mm² mm² mm² cycles	2.5 0.5 2.5 5x10 <sup>6</sup>	
UL technical data	-on-line control	Max min Max 120V 240V	mm² mm² cycles	2.5 0.5 2.5 5x10 <sup>6</sup> 1.5	
UL technical data	-on-line control for three-phase motor	Max min Max 120V 240V 480V	mm² mm² cycles	2.5 0.5 2.5 5x10 <sup>6</sup> 1.5 3 7.5	
UL technical data	-on-line control	Max min Max  120V 240V 480V 600V	mm² mm² cycles	2.5 0.5 2.5 5x10 <sup>6</sup> 1.5 3 7.5 10	
UL technical data	-on-line control for three-phase motor	Max min Max  120V 240V 480V 600V	mm² mm² cycles  HP HP HP HP	2.5 0.5 2.5 5x10 <sup>6</sup> 1.5 3 7.5 10	
UL technical data Motor power for direct-	-on-line control for three-phase motor	Max min Max  120V 240V 480V 600V	mm² mm² cycles  HP HP HP	2.5 0.5 2.5 5x10 <sup>6</sup> 1.5 3 7.5 10	
UL technical data  Motor power for direct-	-on-line control for three-phase motor	Max min Max  120V 240V 480V 600V	mm² mm² cycles  HP HP HP HP	2.5 0.5 2.5 5x10 <sup>6</sup> 1.5 3 7.5 10	
UL technical data Motor power for direct-	-on-line control for three-phase motor  for single-phase motor	Max min Max  120V 240V 480V 600V	mm² mm² cycles  HP HP HP HP	2.5 0.5 2.5 5x10 <sup>6</sup> 1.5 3 7.5 10	
UL technical data  Motor power for direct-	-on-line control for three-phase motor	Max min Max  120V 240V 480V 600V  120V 240V	mm² mm² cycles  HP HP HP HP HP	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 direct-	-on-line control for three-phase motor  for single-phase motor	Max min Max  120V 240V 480V 600V  120V 240V	mm² mm² cycles  HP HP HP HP HP	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 direct-	-on-line control for three-phase motor  for single-phase motor  Operating temperature	Max min Max  120V 240V 480V 600V  120V 240V	mm² mm² cycles  HP HP HP HP HP	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 direct-	-on-line control for three-phase motor  for single-phase motor	Max min Max  120V 240V 480V 600V  120V 240V	mm² mm² cycles  HP HP HP HP HP	2.5 0.5 2.5 5x10 <sup>6</sup> 1.5 3 7.5 10 0.75 2	



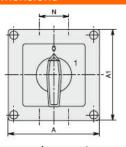
**ENERGY AND AUTOMATION** 

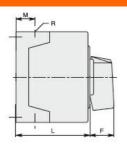
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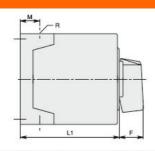
max °C +70

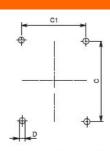
Resistance & Protection	
Frontal IP degree	IP65
Terminals IP degree	IP00

#### **Dimensions**



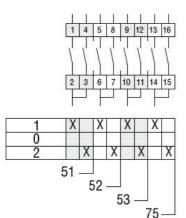






Series	Enclosure	Number o	f elements	Dimensions								Cable	Protection		
Selles	size	L	L1	Α	A1	С	C1	D	F	M	N	L	L1	entry	degree
7GN12	75x75	1-2	3 - 4												
7GN20	1	1-2	3 - 4	75	75	50	64	4.5	19	14	28	57.5	79.8	4xPG13.5	IP65
7GN25		1	2-3												
7GN12	90x90	1-3	4 - 6												
7GN20		1-3	4 - 6	0.000		0.000	100000	10000000	2000	100000				200000000000000000000000000000000000000	
7GN25		1-2	3 - 4	90	90	79	63	4.5	25	19	30	71.3	98.3	4xPG16	IP65
7GN32	1	1-2	3 - 4			3,500				31-3-3					31-30.3-3-17
7GN40		1	2-3												
7GN12	110x110	1-4	5 - 8							1	-				
7GN20		1 - 4	5 - 8												
7GN25		1-3	4 - 5	110	110	98.4	83	4.5	32	21	39.5	85.5	119.5	4xPG21	IP65
7GN32		1-3	4 - 5	110	110	90.4	00	4.5	32	21	39.5	05.5	119.5	417421	11.00
7GN40		1-2	3 - 5												
7GN63		1-2	3 - 4												
7GN32	125x175	1 - 3	4 - 5												
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	123	1/5	140	112	5.5	32	21	00	04.3	110.3	2xPG11	11-00
7GN125		1	2												
7GN32	180x254	1 - 5	6 - 8												
7GN40		1 - 4	5 - 7	180	254	120	190	5.5	32	35	76	121	175	4xPG29	IP65
7GN63	]	1 - 3	4 - 6	100	204	120	190	5.5	32	35	76	121	1/5	2xPG11	11.00
7GN125		1 - 2	3 - 4												

### Wiring diagrams



### Certifications and compliance

Compliance

IEC/EN/BS 60947-1

IEC/EN/BS 60947-3

IEC/EN/BS 60947-5-1

Certificates

EAC

#### ETIM classification



### 7GN2075P

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ETIM 8.0

EC001105 - Offload switch