



ROTARY CAM SWITCH 7GN SERIES, MULTI-STEP 0-1-2-3, 3 POLES 20A, MODULAR SERVICE COVER FOR 35MM DIN REAIL MOUNTING WITH BLACK HANDLE, FRONT PLATE 45X54MM

Product designation			Rotary cam
Product type designation			switches 7GN20
General characteristics			7 GIN20
Switching diagram			136 - Multi-step 0-1-2-3 3 poles
N° of elements			5
Mounting form			O48 - Modular service cover for 35mm din rail mounting with black handle
Contact characteristics			DIACK HATICIE
Rated insulation voltage Ui			
· ·	IEC/EN UL/CSA	V V	690 600
Rated impulse withstand voltage Uimp	UL/CSA	kV	6
Conventional free air thermal current Ith		r. v	<u> </u>
	IEC/EN UL/CSA	A A	20 20
Rated operational voltage	UL/CSA		480
Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection In (gG)			<u>·</u>
, ,	10kA	Α	20
	15kA	Α	16
	25kA	Α	16
Rated short time current Icw	1s	kA	250
Conductivity	10	10.1	10/5 mA/V
Operational current le IEC/EN			
AC1/AC21A			
		Α	20
AC15	440)/	٨	40
	110V	A	10
	220/230V 380/400V	A A	8 6
	660/690V	A	1.5
Rated operational power in AC			
Three-phase AC-3			
•	220/230V	kW	3
	380/440V	kW	5.5
2	500/690V	kW	5.5
Single-phase AC-3	440\/	1/1/1	0.0
	110V 220/230V	kW kW	0.8 2.2
	380/440V	kW	3
Three-phase AC23A	330/1101		
·	220/230V	kW	5
	380/440V	kW	7.5
	500/690V	kW	7.5
Single-phase AC23A			0.0
	110V	kW	0.8
	220/230V 380/440V	kW kW	2.5 3.7
	JJU/77U V	17.4.4	<u> </u>





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Rated operational cui	rrent in DC			
'	DC21A			
		48V	Α	20
		60V	Α	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				
erminals screw				M3
ightening torque for	terminals 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			
	,	min	mm²	0.5
		Max	mm²	2.5
	Conductor size (IEC) Digid coble			
	Conductor size (IEC) - Rigid caple			
	Conductor size (IEC) - Rigid cable		mm²	0.5
	Conductor size (IEC) - Rigid cable	min	mm² mm²	0.5 2.5
/lechanical life	Conductor size (IEC) - Rigid cable		mm²	2.5
	Conductor size (IEC) - Rigid cable	min		
JL technical data		min	mm²	2.5
JL technical data	ct-on-line control	min	mm²	2.5
JL technical data		min Max	mm² cycles	2.5 5x10 <sup>6</sup>
JL technical data	ct-on-line control	min Max 120V	mm² cycles	2.5 5x10 <sup>6</sup>
JL technical data	ct-on-line control	min Max 120V 240V	mm² cycles  HP HP	2.5 5x10 <sup>6</sup> 1.5 3
JL technical data	ct-on-line control	min Max 120V 240V 480V	mm² cycles  HP HP HP	2.5 5x10 <sup>6</sup> 1.5 3 7.5
JL technical data	ct-on-line control for three-phase motor	min Max 120V 240V	mm² cycles  HP HP	2.5 5x10 <sup>6</sup> 1.5 3
JL technical data	ct-on-line control	min Max 120V 240V 480V 600V	mm² cycles  HP HP HP HP	2.5 5x10 <sup>6</sup> 1.5 3 7.5 10
JL technical data	ct-on-line control for three-phase motor	min Max 120V 240V 480V 600V	mm² cycles  HP HP HP HP	2.5 5x10 <sup>6</sup> 1.5 3 7.5 10
JL technical data Motor power for direc	ct-on-line control for three-phase motor	min Max 120V 240V 480V 600V	mm² cycles  HP HP HP HP	2.5 5x10 <sup>6</sup> 1.5 3 7.5 10
JL technical data Motor power for direct Ambient conditions	ct-on-line control for three-phase motor	min Max 120V 240V 480V 600V	mm² cycles  HP HP HP HP	2.5 5x10 <sup>6</sup> 1.5 3 7.5 10
Mechanical life  JL technical data  Motor power for direct  Ambient conditions  Femperature	ct-on-line control for three-phase motor  for single-phase motor	min Max 120V 240V 480V 600V	mm² cycles  HP HP HP HP	2.5 5x10 <sup>6</sup> 1.5 3 7.5 10
JL technical data  Motor power for direct  Ambient conditions	ct-on-line control for three-phase motor	min Max 120V 240V 480V 600V 120V 240V	mm² cycles  HP HP HP HP	2.5 5x10 <sup>6</sup> 1.5 3 7.5 10  0.75 2
JL technical data  Motor power for direct  Ambient conditions	ct-on-line control for three-phase motor  for single-phase motor	min Max 120V 240V 480V 600V	mm² cycles  HP HP HP HP	2.5 5x10 <sup>6</sup> 1.5 3 7.5 10



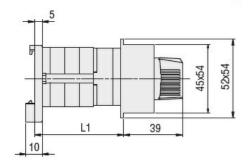


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min	°C	-40
max	°C	+70

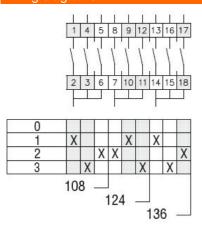
	 •	
Resistance & Protection		
Frontal IP degree		IP40
Terminals IP degree		IP00

# **Dimensions**



Carias	L1			
Series	1	2	3	
7GN12	38.1	47.8	57.5	
7GN20	38.1	47.8	57.5	
7GN25	42.5	56.1	69.7	

# Wiring diagrams



# 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** 

EC001029 -Selector switch, complete