



ROTARY CAM SWITCH 7GN SERIES, CHANGEOVER SWITCH 3 POLES 16A, FOR FRONT MOUNTING WITHOUT FRONT PLATE WITH KEY OPERATION FOR HOLE Ø22MM FIXING

Product designation			Rotary cam switches
Product type designation			7GN12
General characteristics			701112
Switching diagram			53 - Changeover switch 3 poles - 2 speed motor starting with separate windings
N° of elements			3
Mounting form			U12 - Front mounting without front plate with key operation for hole diam. 22mm fixing
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	Α	16
	UL/CSA	Α	15
Rated operational voltage		V	480
Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection In (gG)	10kA 15kA 25kA	A A A	16 10 10
Rated short time current lcw	1s	kA	200
Conductivity			10/5 mA/V
Operational current le IEC/EN			
AC1/AC21A		Α	16
AC15			_
	110V	Α	10
	220/230V	Α	8
	380/400V	A	4
Detect exertional newer in AC	660/690V	A	1.5
Rated operational power in AC Three-phase AC-3			
Tillee pilase Ao o	220/230V	kW	2.5
	380/440V	kW	4
	500/690V	kW	5.5
Single-phase AC-3			
	110V	kW	0.8
	220/230V	kW	1.5
Three-phase AC23A	380/440V	kW	2.2
Tillee-priase AC23A	220/230V 380/440V	kW kW	3 5.5



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Single-phase AC23A			500/690V	kW	7.5
110V KW 0.8 220/230V kW 3 3 3 3 3 3 3 3 3		Single-phase AC23A	300/0901	KVV	1.5
Rated operational current in DC DC21A			110V	kW	0.8
Rated operational current in DC DC21A 48V			220/230V	kW	1.7
DC21A			380/440V	kW	3
ABV	Rated operational curr	rent in DC			
Conductor size Conductor size (IEC) - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable Conductor size (IEC)		DC21A			
110V					
DC23A (poles in series)					
Max Max					
DC23A (poles in series)					
A		DCCCA (nologin corios)	440 V	Α	0.25
ABV		DC23A (poles in series)	24\/	۸	10 (1)
Conductor size Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable Conductor size (IEC) - Rig					
110V					
DC13					
DC13					
Recommendation		DC13			· /
ABV A 10			24V	Α	12
110V			48V	Α	10
Power dissipation W 0.4 0.15			60V	Α	8
Power dissipation W 0.8 Mechanical features W 0.5 Mechanical for terminals max Nm 0.5 Mechanical features Mechanic			110V	Α	1
Power dissipation W 0.8				Α	
Machanical features			440V		
Terminals screw				W	0.8
Tightening torque for terminals max					
AWG - Rigid cable					
AWG - Rigid cable min		erminals max		Nm	0.5
Max	Conductor size	ANAC Bisid sable			
Max AWG 12 AWG - Flexible cable min AWG 20 Max AWG 14 AWG 14 AWG Max AWG 14 AWG Max AWG 14 AWG Max MMG 15 A		AWG - Rigid cable		A1A/C	20
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) - Rigid cable min mm² 0.5 Max mm² 2.5 Conductor size (IEC) - Rigid cable min mm² 0.5 Max mm² 2.5 Mechanical life cycles 3x10 ⁶ UL technical data Motor power for direct-on-line control for three-phase motor 120V HP 1.5 240V HP 3 480V HP 50 600V HP 40 for single-phase motor 120V HP 0.5 240V HP 1					
Max AWG 20 Max AWG 14		AWG - Flevible cable	IVIAX	AVVG	12
Max AWG 14		AVVG - I lexible cable	min	ΔWG	20
Conductor size (IEC) - Flexible cable					
Max min mm² 0.5 Max mm² 2.5		Conductor size (IEC) - Flexible cable	IVIUA	,,,,,	· ·
Max mm² 2.5		(.25)	min	mm²	0.5
Conductor size (IEC) - Rigid cable					
Mechanical life cycles 3x10 ⁶ UL technical data Motor power for direct-on-line control for three-phase motor 120V HP 1.5 240V HP 3 480V HP 50 600V HP 40 for single-phase motor 120V HP 0.5 240V HP 1		Conductor size (IEC) - Rigid cable			_
Mechanical life			min	mm²	0.5
Motor power for direct-on-line control			Max	mm²	
Motor power for direct-on-line control for three-phase motor 120V HP 1.5 240V HP 3 480V HP 50 600V HP 40 for single-phase motor 120V HP 0.5 240V HP 1				cycles	3x10 ⁶
for three-phase motor 120V HP 1.5 240V HP 3 480V HP 50 600V HP 40 for single-phase motor 120V HP 0.5 240V HP 1		t on line control			
120V HP 1.5 240V HP 3 480V HP 50 600V HP 40 for single-phase motor 120V HP 0.5 240V HP 1	wotor power for affect				
240V HP 3 480V HP 50 600V HP 40 for single-phase motor 120V HP 0.5 240V HP 1		ioi tillee-pilase filotor	120\/	HD	1 5
480V HP 50 600V HP 40 for single-phase motor 120V HP 0.5 240V HP 1					
600V HP 40 for single-phase motor 120V HP 0.5 240V HP 1					
for single-phase motor 120V HP 0.5 240V HP 1					
120V HP 0.5 		for single-phase motor			
240V HP 1		a Ea	120V	HP	0.5
	Ambient conditions				



ENERGY AND AUTOMATION

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Temperature

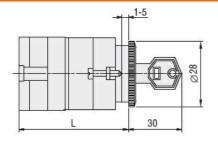
Operating temperature

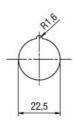
	min	°C	-25	
	max	°C	+55	
Storage temperature				
	min	°C	-40	
	max	°C	+70	

Resistance & Protection

Frontal IP degree	IP40
Terminals IP degree	IP00

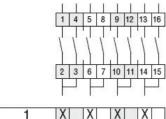
Dimensions

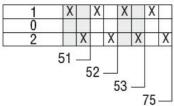




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Series	1	2	3	8
7GN12	47	56.7	66.4	114.9
7GN20	47	56.7	66.4	114.9
7GN25	51.4	65	78.6	146.6

Wiring diagrams





Certifications and compliance

Compliance

CSA C	22.2	n°	14
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IEC/EN/BS 60947-1

IEC/EN/BS 60947-3

IEC/EN/BS 60947-5-1

UL60947-4-1

Certificates

EAC

UL

ETIM classification



7GN1253U12

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ETIM 8.0

EC001029 -Selector switch, complete