

# ROTARY CAM SWITCH 7GN SERIES, 3-PHASE MOTOR REVERSING SWITCH 16A, FOR FRONT MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM



Product designation			Rotary cam
•			switches
Product type designation  General characteristics			7GN12
Ochicial Characteristics			11 - 3-phase
Switching diagram			motor reversing switch
N° of elements			3
			U - Front
Mounting form			mounting with black handle
Contact characteristics			black flatfule
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	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	Α	16
	15kA	Α	10
	25kA	Α	10
Rated short time current Icw			
	1s	kA	200
Conductivity			10/5 mA/V
Operational current le IEC/EN			
AC1/AC21A			
- <del></del>		Α	16
AC15			
	110V	Α	10
	220/230V	A	8
	380/400V	A	4
Pated aparational power in AC	660/690V	A	1.5
Rated operational power in AC  Three-phase AC-3			
Three-phase AC-3	220/230V	kW	2.5
	380/440V	kW	2.5 4
	500/690V	kW	5.5
Single-phase AC-3	300/030 V	IX V V	0.0
olligic priase Ao-o	110V	kW	0.8
	220/230V	kW	1.5
	380/440V	kW	2.2
Three-phase AC23A			



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Single-phase AC23A  Rated operational current in DC DC21A  DC23A (poles in series)	220/230V 380/440V 500/690V 110V 220/230V 380/440V 48V 60V 110V 220V	kW kW kW kW kW	3 5.5 7.5 0.8 1.7 3
Rated operational current in DC DC21A	500/690V 110V 220/230V 380/440V 48V 60V 110V	kW kW kW	7.5 0.8 1.7
Rated operational current in DC DC21A	500/690V 110V 220/230V 380/440V 48V 60V 110V	kW kW kW	7.5 0.8 1.7
Rated operational current in DC DC21A	110V 220/230V 380/440V 48V 60V 110V	kW kW kW	0.8 1.7
Rated operational current in DC DC21A	220/230V 380/440V 48V 60V 110V	kW kW	1.7
DC21A	220/230V 380/440V 48V 60V 110V	kW kW	1.7
DC21A	380/440V 48V 60V 110V	kW A	
DC21A	48V 60V 110V	А	3
DC21A	48V 60V 110V	А	
DC21A	60V 110V		
	60V 110V		
DC23A (poles in series)	60V 110V		
DC23A (poles in series)	110V		12
DC23A (poles in series)		Α	12
DC23A (poles in series)		Α	4
DC23A (poles in series)	/////	Α	0.6
DC23A (poles in series)			
DC23A (poles in series)	440V	Α	0.25
	24V	Α	10 (1)
	48V	Α	10 (2)
	60V	Α	10 (3)
	110V	Α	5 (3)
	220V	Α	5 (4)
DC13			
	24V	Α	12
	48V	A	10
	60V	Α	8
	110V	Α	1
	220V	Α	0.4
	440V	Α	0.15
Power dissipation		W	0.8
Mechanical features		**	0.0
			140
Terminals screw			M3
Tightening torque for terminals max		Nm	0.5
Conductor size			
AWG - Rigid cable			
7 Trigid Gabio	min	AMC	20
	min	AWG	20
	Max	AWG	12
AWG - Flexible cable			
	min	AWG	20
	Max	AWG	14
Condustor size (IEC) Flavible coble	IVICA	,,,,,,	
Conductor size (IEC) - Flexible cable		•	o =
	min	mm²	0.5
	Max	mm²	2.5
Conductor size (IEC) - Rigid cable			
3, 3,	min	mm²	0.5
	Max	mm²	2.5
Marilland at Pfe	iviax		
Mechanical life		cycles	3x10 <sup>6</sup>
UL technical data			
Motor power for direct-on-line control			
for three-phase motor			
ioi tilice pilase motor	4001/	HР	1 5
	120V	HP	1.5
	240V	HP	3
for single-phase motor			
<b>.</b>	120V	HP	0.5
	240V	HP	1
Ambient conditions	24U V	111	·
Ambient conditions			



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#### Temperature

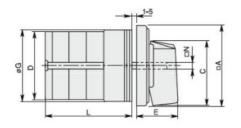
#### Operating temperature

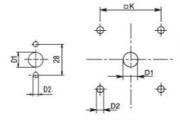
	min	°C	-25	
	max	°C	+55	
Storage temperature				
	min	°C	-40	
	max	°C	+70	

#### Resistance & Protection

Frontal IP degree	IP40
Terminals IP degree	IP00

#### **Dimensions**

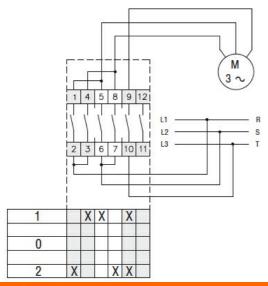




Standard drillings for 7GN125. Drillings on request for 4 screws fixing (4V version).

Series	Dimensions							L Number of elements													
Series	□A	С	ØD	ØD1	ØD2	Е	ØG	□K	□N	1	2	3	4	5	6	7	8	9	10	11	12
7GN12	48	39.5	39	12	5	26.5	38	36	6	36.1	45.8	55.5	65.2	74.9	84.6	94.3	104	113.7	123.4	133.1	142.8
7GN20	48	39.5	39	12	5	26.5	38	36	6	36.1	45.8	55.5	65.2	74.9	84.6	94.3	104	113.7	123.4	133.1	142.8
7GN25	48	39.5	43	12	5	26.5	38	36	6	40.5	54.1	67.7	81.3	94.9	108.5	122.1	135.7	147.3	162.9	176.5	190.1
7GN32	65	53	58	14	5	34.5	58.5	48	7	46.5	61.6	76.7	91.8	106.9	122	137.1	152.2	167.3	182.4	197.5	212.6
7GN40	65	53	58	14	5	34.5	58.5	48	7	46.5	61.6	76.7	91.8	106.9	122	137.1	152.2	167.3	182.4	197.5	212.6
7GN63	65	53	62	14	5	34.5	58.5	48	7	50.3	68.4	86.5	104.6	122.7	140.8	158.9	177	195.1	213.2	231.3	249.4
7GN125	90	70.5	86	16	6	41.5	84	68	9	67.3	96.4	125.5	154.6	183.7	220.3	249.4	278.5	307.6	336.7	365.8	394.9

## 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



## 7GN1211U

complete

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	UL60947-4-1	
Certificates		
	cCSAus	
	EAC	
	UL	
ETIM classificat	ion	
		EC001029 -
ETIM 8.0		Selector switch,