7GN1297U

ENERGY AND AUTOMATION

BLACK HANDLE, FRONT PLATE 48X48MM

Product designation				Rotary cam
Product type designation				switches 7GN12
General characteristics				TGNTZ
Switching diagram				97 - Ammeter switch
N° of elements				5
Mounting form				U - Front mounting with black handle
Contact characteristics				
Rated insulation voltage Ui				
		IEC/EN UL/CSA	V V	690 600
Rated impulse withstand voltage Uin	מו	02,00,1	kV	6
Conventional free air thermal current				
		IEC/EN	А	16
		UL/CSA	А	15
Rated operational voltage			V	480
Rated operational impulse voltage			kV	4
Maximum fuse size for short-circuit p	protection In (gG)			
		10kA	А	16
		15kA	А	10
		25kA	А	10
Rated short time current Icw		1s	kA	200
Conductivity		15	ĸА	10/5 mA/V
Operational current le IEC/EN				10/3 IIIA/ V
AC1/AC21A				
	,		А	16
AC15				
		110V	А	10
		220/230V	А	8
		380/400V	А	4
		660/690V	А	1.5
Rated operational power in AC				
Three-phase	e AC-3			
		220/230V	kW	2.5
		380/440V	kW	4
		500/690V	kW	5.5
Single-phas	e AC-3	4401/	1-147	0.0
		110V 220/230V	kW	0.8
		220/230V 380/440V	kW kW	1.5 2.2
Three-phase	م ۸ <u>۲</u> 23۸	300/440 V	ĸvv	2.2
mee-phase		220/230V	kW	3
		380/440V	kW	5.5
		500/690V	kW	7.5
Single-phas	e AC23A		••••	-
e		110V	kW	0.8
		220/230V	kW	1.7
		380/440V	kW	3

Rated operational current in DC

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DC21A

7GN1297U electric ROTARY CAM SWITCH 7GN SERIES, AMMETER SWITCH 16A, FOR FRONT MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

48V

А

12

		40 v	~	12
		60V	Α	12
		110V	А	4
		220V	А	0.6
		440V	А	0.25
	DC23A (poles in series)			
		24V	А	10 (1)
		48V	A	10 (2)
		48V 60V	A	
				10 (3) 5 (2)
		110V	A	5 (3) 5 (4)
	D 010	220V	A	5 (4)
	DC13	A A A		10
		24V	A	12
		48V	A	10
		60V	А	8
		110V	А	1
		220V	А	0.4
		440V	А	0.15
Power dissipation			W	0.8
Mechanical features				
Terminals screw				M3
Tightening torque for te	erminals max		Nm	0.5
Conductor size				5.0
	AWG - Rigid cable			
	AWG - Rigiu Cable	min		20
		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) - Rigid cable			
	· · · · ·	min	mm²	0.5
		Max	mm²	2.5
Mechanical life		max	cycles	3x10 ⁶
UL technical data			0,000	5/(10
Motor power for direct-	on-line control			
	for three-phase motor			
		120V	HP	1.5
	for simple where we tak	240V	HP	3
	for single-phase motor			o =
		120V	HP	0.5
		240V	HP	1
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-25
		max	°C	+55
	Storage temperature		~	
		min	°C	-40
		max	°C	+70

Resistance & Protection

OVE

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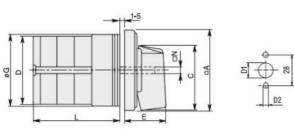
ENERGY AND AUTOMATION

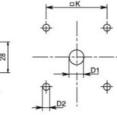
Frontal IP degree





IP00

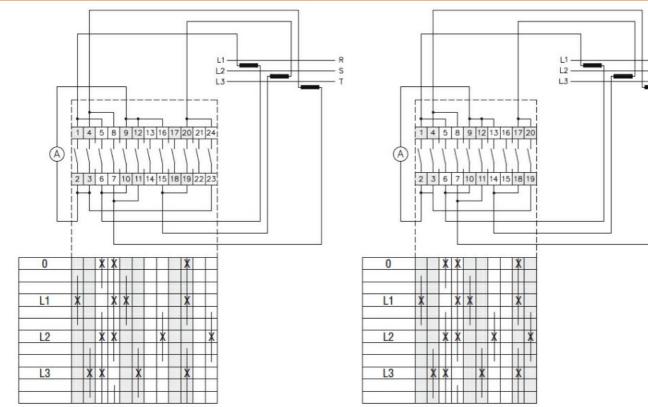




Standard drillings for 7GN125. Drillings on request for 4 screws fixing (4V version).

Series	Dimensions						L Number of elements														
Series	□A	С	ØD	ØD1	ØD2	Е	ØG	□K	ΠN	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	
UL60947-4-1	

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Certificates		
	cCSAus	
	EAC	
	UL	
ETIM classifica	tion	
		EC001029 -
ETIM 8.0		Selector switch,

Selector switch, complete

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