

# **7GN4012U** ROTARY CAM SWITCH 7GN SERIES, STAR-DELTA MOTOR STARTER SWITCH 40A, FOR FRONT MOUNTING WITH BLACK HANDLE, FRONT PLATE 65X65MM



Product designation			Rotary cam
-			switches
Product type designation			7GN40
General characteristics			
Switching diagram			12 - Star-delta motor starter
Switching diagram			switch
N° of elements			4
			U - Front
Mounting form			mounting with
			black handle
Contact characteristics			
Rated insulation voltage Ui			
	IEC/EN	V	690
	UL/CSA	<u>V</u>	600
Rated impulse withstand voltage Uimp		kV	6
Conventional free air thermal current Ith			
	IEC/EN	A	40
	UL/CSA	<u>A</u>	50
Rated operational voltage		V kV	480
Rated operational impulse voltage		KV	4
Maximum fuse size for short-circuit protection In (gG)	10kA	٨	40
	10kA 15kA	A A	40 40
	25kA	A	40 40
	50kA	A	40
	63kA	A	40
Rated short time current Icw	00101		10
	1s	kA	1000
	60s	А	1000
Conductivity			10/5 mA/V
Operational current le IEC/EN			
AC1/AC21A			
		А	40
AC15			
	110V	А	25
	220/230V	А	22
	380/400V	А	12
	660/690V	А	2
Rated operational power in AC			
Three-phase AC-3			
	220/230V	kW	8
	380/440V	kW	15
	500/690V	kW	15
Single-phase AC-3	44017	1.3.47	0
	110V	kW	3

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The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



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		220/230V	kW	6.5
		380/440V	kW	8
	Three-phase AC23A			
		220/230V	kW	8
		380/440V	kW	18.5
	0: 1 1 0000	500/690V	kW	22
	Single-phase AC23A			_
		110V	kW	3
		220/230V	kW	6
		380/440V	kW	11
Rated operational cur	rrent in DC			
	DC21A			
		48V	А	40
		60V	А	40
		110V	A	6
		220V	A	0.9
	DC22A (polos in agrica)	220 V	n	0.0
	DC23A (poles in series)	0417	۸	40 (1)
		24V	A	40 (1)
		48V	A	40 (2)
		60V	А	40 (3)
		110V	А	20 (3)
		220V	А	12 (4)
	DC13			
		24V	А	40
		48V	А	32
		60V	А	16
		110V	A	3
Power dissipation			W	2.0
Mechanical features			vv	2.0
Terminals screw				M4
				1014
	terminale may		Nimo	10
Tightening torque for	terminals max		Nm	1.2
			Nm	1.2
Tightening torque for	terminals max AWG - Rigid cable			
Tightening torque for		min	AWG	16
Tightening torque for	AWG - Rigid cable	min Max		
Tightening torque for			AWG	16
Tightening torque for	AWG - Rigid cable		AWG	16
Tightening torque for	AWG - Rigid cable	Max	AWG AWG	16 8
Tightening torque for	AWG - Rigid cable AWG - Flexible cable	Max min	AWG AWG AWG	16 8 16
Tightening torque for	AWG - Rigid cable	Max min Max	AWG AWG AWG AWG	16 8 16 10
Tightening torque for	AWG - Rigid cable AWG - Flexible cable	Max min Max min	AWG AWG AWG AWG mm <sup>2</sup>	16 8 16 10 1.5
Tightening torque for	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable	Max min Max	AWG AWG AWG AWG	16 8 16 10
Tightening torque for	AWG - Rigid cable AWG - Flexible cable	Max min Max min Max	AWG AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup>	16 8 16 10 1.5 6
Tightening torque for	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable	Max min Max min Max min	AWG AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup>	16 8 16 10 1.5 6 1.5
Tightening torque for Conductor size	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable	Max min Max min Max	AWG AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup>	16 8 16 10 1.5 6 1.5 10
Tightening torque for Conductor size Mechanical life	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable	Max min Max min Max min	AWG AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup>	16 8 16 10 1.5 6 1.5
Tightening torque for Conductor size Mechanical life UL technical data	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable	Max min Max min Max min	AWG AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup>	16 8 16 10 1.5 6 1.5 10
Tightening torque for Conductor size Mechanical life	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable	Max min Max min Max min	AWG AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup>	16 8 16 10 1.5 6 1.5 10
Tightening torque for Conductor size Mechanical life UL technical data	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable	Max min Max min Max min Max	AWG AWG AWG Mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> cycles	16 8 16 10 1.5 6 1.5 10
Tightening torque for Conductor size Mechanical life UL technical data	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable	Max min Max min Max min	AWG AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup>	16 8 16 10 1.5 6 1.5 10
Tightening torque for Conductor size Mechanical life UL technical data	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable	Max min Max min Max min Max	AWG AWG AWG Mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> cycles	16 8 16 10 1.5 6 1.5 10 5x10 <sup>6</sup>
Tightening torque for Conductor size Mechanical life UL technical data	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable	Max min Max min Max 120V	AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> cycles	16 8 16 10 1.5 6 1.5 10 5x10 <sup>6</sup> 5 10
Tightening torque for Conductor size Mechanical life UL technical data	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable	Max min Max min Max min Max 120V 240V 480V	AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> cycles	16 8 16 10 1.5 6 1.5 10 5x10 <sup>6</sup> 5 10 20
Tightening torque for Conductor size Mechanical life UL technical data	AWG - Rigid cable    AWG - Flexible cable   Conductor size (IEC) - Flexible cable   Conductor size (IEC) - Rigid cable   ct-on-line control for three-phase motor	Max min Max min Max min Max	AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> cycles	16 8 16 10 1.5 6 1.5 10 5x10 <sup>6</sup> 5 10
Tightening torque for Conductor size Mechanical life UL technical data	AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable	Max min Max min Max min Max 120V 240V 480V	AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> cycles	16 8 16 10 1.5 6 1.5 10 5x10 <sup>6</sup> 5 10 20

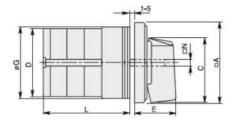
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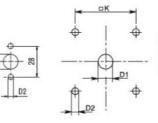


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		240V	HP	5
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-25
		max	°C	+55
	Storage temperature			
		min	°C	-40
		max	°C	+70
Resistance & Protecti	on			
Frontal IP degree				IP40
Terminals IP degree				IP00
D'un state a				

### Dimensions

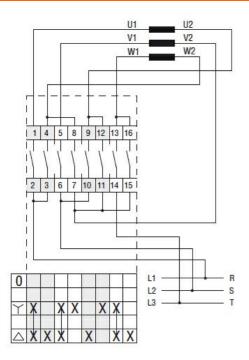




Standard drillings for 7GN125. Drillings on request for 4 screws fixing (4V version).

Carias				Dir	nensio	ons				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

7GN4012U



#### 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 classificati	on	
ETIM 8.0		EC001105 - Off-

load switch

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