GX1693O

electric ROTARY CAM SWITCH GX SERIES, MULTI-STEP 1-2-3, 3 POLES 16A, FOR REAR MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

Product designation			Rotary cam
-			switches
Product type designation General characteristics			GX16
			93 - Multi-step 1-
Switching diagram			2-3 3 poles
N° of elements			5
Mounting form			O - Rear mounting with black handle
Contact characteristics			
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	A	12
Rated operational voltage		V	440
Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection In (gG)			4.0
	10kA 15kA	A	16 16
	25kA	A A	16
Rated short time current Icw	ZJKA	A	10
Rated short time current icw	1s	kA	250
Conductivity	13	N/A	10/5 mA/V
Operational current le IEC/EN			10/0 11/1 1
AC1/AC21A			
		А	16
AC15			
	110V	А	10
	220/230V	А	8
	380/400V	Α	4
	660/690V	Α	1.5
Rated operational power in AC			
Three-phase AC-3			
	220/230V	kW	3.5
	380/440V	kW	4.5
	500/690V	kW	5.5
Single-phase AC-3	4401/	1.3.47	0.55
	110V	kW	0.55
	220/230V	kW kW	1.5
Three-phase AC23A	380/440V	ĸνν	2.2
Inite-phase Auzok	220/230V	kW	3.7
	380/440V	kW	6.5
	500/690V	kW	7.5
Single-phase AC23A			-
	110V	kW	0.75
	220/230V	kW	1.8
	380/440V	kW	3

## Rated operational current in DC

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	DC21A			
	DC2TA	48V	А	16
		48V 60V	A	16
		110V	A	4
		220V	A	- 0.6
		440V	A	0.25
	DC23A (poles in series)			0.20
		24V	А	16 (1)
		48V	А	16 (2)
		60V	А	16 (3)
		110V	А	10 (3)
		220V	А	7 (4)
	DC13			
		24V	А	16
		48V	А	14
		60V	А	10
		110V	А	1
		220V	А	0.4
		440V	А	0.15
Power dissipation			W	0.6
Mechanical features				
Terminals screw				3M
Tightening torque for t	terminals max		Nm	0.5
Conductor size				
	AWG - Rigid cable			
		min	AWG	20
		Max	AWG	12
	AWG - Flexible cable			
		min	AWG	20
		min Max	AWG AWG	20 12
	Conductor size (IEC) - Flexible cable			
	Conductor size (IEC) - Flexible cable			
	Conductor size (IEC) - Flexible cable	Max	AWG	12
	Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable	Max min	AWG mm² mm²	12 0.5 2.5
		Max min	AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup>	12 0.5 2.5 0.5
		Max min Max	AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup>	12 0.5 2.5 0.5 2.5
Mechanical life		Max min Max min	AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup>	12 0.5 2.5 0.5
UL technical data	Conductor size (IEC) - Rigid cable	Max min Max min	AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup>	12 0.5 2.5 0.5 2.5
	Conductor size (IEC) - Rigid cable	Max min Max min	AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup>	12 0.5 2.5 0.5 2.5
UL technical data	Conductor size (IEC) - Rigid cable	Max min Max min Max	AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> cycles	12 0.5 2.5 0.5 2.5 1X10 <sup>6</sup>
UL technical data	Conductor size (IEC) - Rigid cable	Max min Max min Max	AWG mm² mm² mm² cycles	12 0.5 2.5 0.5 2.5 1X10 <sup>6</sup>
UL technical data	Conductor size (IEC) - Rigid cable	Max min Max min Max 120V 240V	AWG mm² mm² cycles HP HP	12 0.5 2.5 0.5 2.5 1X10 <sup>6</sup>
UL technical data	Conductor size (IEC) - Rigid cable	Max min Max min Max 120V 240V 480V	AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> cycles HP HP HP	12 0.5 2.5 0.5 2.5 1X10 <sup>6</sup> 1.5 3 5
UL technical data	Conductor size (IEC) - Rigid cable t-on-line control for three-phase motor	Max min Max min Max 120V 240V	AWG mm² mm² cycles HP HP	12 0.5 2.5 0.5 2.5 1X10 <sup>6</sup>
UL technical data	Conductor size (IEC) - Rigid cable	Max     min     Max     min     Max     120V     240V     480V     600V	AWG mm² mm² cycles HP HP HP HP	12 0.5 2.5 0.5 2.5 1X10 <sup>6</sup> 1.5 3 5 5
UL technical data	Conductor size (IEC) - Rigid cable t-on-line control for three-phase motor	Max min Max min Max 120V 240V 480V 600V	AWG mm² mm² cycles HP HP HP HP	12 0.5 2.5 0.5 2.5 1X10 <sup>6</sup> 1.5 3 5 5 0.75
UL technical data Motor power for direc	Conductor size (IEC) - Rigid cable t-on-line control for three-phase motor	Max     min     Max     min     Max     120V     240V     480V     600V	AWG mm² mm² cycles HP HP HP HP	12 0.5 2.5 0.5 2.5 1X10 <sup>6</sup> 1.5 3 5 5
UL technical data Motor power for direct	Conductor size (IEC) - Rigid cable t-on-line control for three-phase motor	Max min Max min Max 120V 240V 480V 600V	AWG mm² mm² cycles HP HP HP HP	12 0.5 2.5 0.5 2.5 1X10 <sup>6</sup> 1.5 3 5 5 0.75
UL technical data Motor power for direc	Conductor size (IEC) - Rigid cable t-on-line control for three-phase motor	Max min Max min Max 120V 240V 480V 600V	AWG mm² mm² cycles HP HP HP HP	12 0.5 2.5 0.5 2.5 1X10 <sup>6</sup> 1.5 3 5 5 0.75
UL technical data Motor power for direct	Conductor size (IEC) - Rigid cable t-on-line control for three-phase motor	Max     min     Max     min     Max     120V     240V     480V     600V     120V     240V     480V     600V	AWG mm² mm² cycles HP HP HP HP HP	12 0.5 2.5 0.5 2.5 1X10 <sup>6</sup> 1.5 3 5 5 0.75 1
UL technical data Motor power for direct	Conductor size (IEC) - Rigid cable t-on-line control for three-phase motor	Max min Max min Max 120V 240V 480V 600V 120V 240V	AWG mm² mm² cycles HP HP HP HP HP	12 0.5 2.5 0.5 2.5 1X10 <sup>6</sup> 1.5 3 5 5 0.75 1 -25
UL technical data Motor power for direct	Conductor size (IEC) - Rigid cable   t-on-line control for three-phase motor   for single-phase motor   Operating temperature	Max     min     Max     min     Max     120V     240V     480V     600V     120V     240V     480V     600V	AWG mm² mm² cycles HP HP HP HP HP	12 0.5 2.5 0.5 2.5 1X10 <sup>6</sup> 1.5 3 5 5 0.75 1
UL technical data Motor power for direct	Conductor size (IEC) - Rigid cable t-on-line control for three-phase motor	Max min Max min Max 120V 240V 480V 600V 120V 240V	AWG mm² mm² cycles HP HP HP HP HP	12 0.5 2.5 0.5 2.5 1X10 <sup>6</sup> 1.5 3 5 5 0.75 1 -25

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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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ENERGY AND AUTOMATION

WITH BLACK HANDLE, FRONT PLATE 48X48MM

	max	°C	+70
Resistance & Protection			
Frontal IP degree			IP65
Terminals IP degree			IP20
Dimensions			
3			

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## 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	
	IEC/EN/BS 61058-1	
	UL60947-4-1	
Certificates		
	cULus	
	EAC	
ETIM classification		
		EC001029 -

**ETIM 8.0**