**ENERGY AND AUTOMATION** 

# ROTARY CAM SWITCH GX SERIES, 3-PHASE MOTOR REVERSING SWITCH 20A, MODULAR SERVICE COVER FOR 35MM DIN REAL MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

Product designation			Rotary cam
•			switches
Product type designation			GX20
General characteristics			44 2 mb a a a
Switching diagram			11 - 3-phase motor reversing switch
N° of elements			3
			U47 - Snap on
			fron mounting
Mounting form			with black handle
			for hole diam. 22mm finxing
Contact characteristics			ZZIIIII IIIIXIIIG
Rated insulation voltage Ui			
rated modalion voltage of	IEC/EN	V	690
	UL/CSA	V	600
Rated impulse withstand voltage Uimp		kV	6
Conventional free air thermal current Ith			
	IEC/EN	Α	20
	UL/CSA	Α	15
Rated operational voltage		V	440
Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection In (gG)			
	10kA	Α	20
	15kA	A	20
Detect of the set time a surrount law.	25kA	A	20
Rated short time current Icw	10	LεΛ	250
Conductivity	1s	kA	10/5 mA/V
Operational current le IEC/EN			10/3 1117/ V
AC1/AC21A			
710 117102 171		Α	20
AC15			
	110V	Α	10
	220/230V	Α	8
	380/400V	Α	6
	660/690V	Α	1.5
Rated operational power in AC			
Three-phase AC-3			
	220/230V	kW	3.7
	380/440V	kW	5.5
0'1110-0	500/690V	kW	5.5
Single-phase AC-3	440\/	<b>/</b> \/\	0.75
	110V 220/230V	kW kW	0.75 1.8
	380/440V	kW	3
Three-phase AC23A	J00/770 V	17.4.4	
111100 p11000 / 1020/1	220/230V	kW	4
	380/440V	kW	7.5
	500/690V	kW	7.5
Single-phase AC23A			
	110V	kW	0.75
	220/230V	kW	2.2

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Rated operational current in DC			380/440V	kW	3.5		
ABV	Rated operational curr						
Body		DC21A					
1100				Α	20		
				Α	20		
DC23A (poles in series)			110V	Α	4		
DC23A (poles in series)			220V	Α	0.6		
24V			440V	Α	0.25		
ABV   A   20 (2)		DC23A (poles in series)					
Conductor size (IEC) - Flexible cable   Conductor size (IEC) - Flexible cable   Conductor size (IEC) - Rigid cable   Con			24V	Α	20 (1)		
110V			48V	Α	20 (2)		
DC13			60V	Α	20 (3)		
DC13			110V	Α	10 (3)		
Power dissipation			220V	Α	8 (4)		
ABV		DC13			_		
Conductor size (IEC) - Flexible cable   Max			24V	Α	20		
110V			48V	Α	16		
Power dissipation			60V	Α	12		
Power dissipation   W   0.6   W   0.6			110V	Α	1		
Power dissipation   W   0.6     Mechanical features   W   0.6     Mechanical features   W   0.8   Max   Ma			220V	Α	0.4		
Machanical features			440V	Α	0.15		
Machanical features	Power dissipation			W	0.6		
Tightening torque for terminals max	-						
AWG - Rigid cable	Terminals screw				M3		
AWG - Rigid cable	Tightening torque for to	erminals max		Nm	0.8		
AWG - Rigid cable    min							
AWG - Flexible cable		AWG - Rigid cable					
AWG - Flexible cable		g.a cazie	min	AWG	20		
AWG - Flexible cable    min   AWG   20   Max   AWG   12							
min Max AWG 20 Max AWG 12           Conductor size (IEC) - Flexible cable           min Max mm² 0.5 Max mm² 2.5           Conductor size (IEC) - Rigid cable         min mm² Max mm² 2.5           Mechanical life         cycles         1X10°           UL technical data         vcles         1X10°           UL technical data         120V HP 1.5         1.5           Motor power for direct-on-line control         120V HP 3         3         480V HP 5         600V HP 5           for single-phase motor         120V HP 5         5         600V HP 5         5           Ambient conditions           Temperature           Operating temperature         min °C -25         -25		AWG - Flexible cable					
Max   AWG   12		ATTO THOMBIC CODIC	min	AWG	20		
Conductor size (IEC) - Flexible cable							
Max mm²   0.5   Max mm²   2.5		Conductor size (IEC) - Flexible cable	West	71110			
Max mm² 2.5		Contractor Cizo (120) Tronble cable	min	mm²	0.5		
Conductor size (IEC) - Rigid cable							
Max         min mm² mm² mm² mm² 2.5         0.5 mm² 2.5           Mechanical life         cycles         1X106           UL technical data           Motor power for direct-on-line control           120V HP 1.5           240V HP 3         3           480V HP 5         5           600V HP 5         5           for single-phase motor         120V HP 0.75           120V HP 1.5         1.5           Ambient conditions         240V HP 1.5           Temperature           Operating temperature         min °C -25		Conductor size (IEC) - Rigid cable	West				
Mechanical life         cycles         1X10°           UL technical data           Motor power for direct-on-line control           for three-phase motor         120V         HP         1.5           240V         HP         3           480V         HP         5           600V         HP         5           for single-phase motor         120V         HP         0.75           240V         HP         1.5   Ambient conditions  Temperature  Operating temperature  Operating temperature  min °C -25		Talled (120) Tigit dubic	min	mm²	0.5		
Mechanical life         cycles         1X10 <sup>6</sup> UL technical data           Motor power for direct-on-line control           120V HP 1.5           240V HP 3         480V HP 5           600V HP 5         5           for single-phase motor           120V HP 0.75           240V HP 1.5           Ambient conditions           Temperature           Operating temperature							
Motor power for direct-on-line control	Mechanical life		IVIUA				
Motor power for direct-on-line control         for three-phase motor       120V       HP       1.5         240V       HP       3         480V       HP       5         600V       HP       5         for single-phase motor         120V       HP       0.75         240V       HP       1.5    Ambient conditions Temperature Operating temperature         min       °C       -25				Cycles	17(10		
for three-phase motor    120V							
120V	Motor power for difect						
240V		ioi alloo pilaoo motol	120\/	HP	1.5		
480V   HP   5   600V   HP   5							
600V   HP   5							
for single-phase motor  120V HP 0.75 240V HP 1.5  Ambient conditions  Temperature  Operating temperature  min °C -25							
120V HP 0.75 240V HP 1.5  Ambient conditions  Temperature  Operating temperature  min °C -25		for single-phase motor	0007	TH.	<u> </u>		
Ambient conditions  Temperature  Operating temperature  min °C -25		ioi single-phase motor	1201/	ЦD	0.75		
Ambient conditions  Temperature  Operating temperature  min °C -25							
Temperature  Operating temperature  min °C -25	Ambient conditions		Z4UV	ПР	1.0		
Operating temperature min °C -25							
min °C -25	remperature	Operating temperature					
		Operating temperature	!	°C	25		
max °C +55							
			max	U	<del>τυυ</del>		

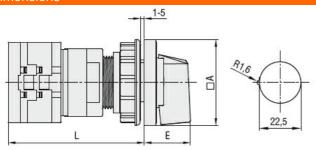


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min	°C	-40
max	°C	+70

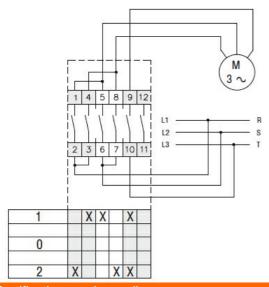
Resistance & Protection	
Frontal IP degree	IP65
Terminals IP degree	IP20

#### **Dimensions**



Carias	Dimer	L				
Series	□A	Е	1	2	3	8
GX16	48	26.5	64.9	73.4	81.9	124.4
GX20	48	26.5	64.9	73.4	81.9	124.4

## Wiring diagrams



## Certifications and compliance

## Compliance

CSA C22.2 n° 14	CSA	C22.2	n°	14
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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

3/4



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## GX2011U47

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ETIM 8.0

EC001029 -Selector switch, complete