

ROTARY CAM SWITCH GX SERIES, VOLTMETER SWITCH FOR PHASE-NEUTRAL AND PHASE-PHASE VOLTAGES 16A, FOR SNAP ON FRONT MOUNTING WITH BLACK HANDLE FOR HOLE Ø22MM FIXING, FRONT PLATE 48X48MM

GX1666U47

Product type designation         GXX           General characteristics         66           Switching diagram         90           N* of elements         3           Mounting form         14           Mounting form         70           Rated insulation voltage Ui         12           Contact characteristics         22           Contact characteristics         22           Rated insulation voltage Ui         12           Conventional fibre air thermal current Ith         12           Conventional voltage         V           V         44           Rated operational voltage         V           V         44           Rated operational voltage         V           V         44           Rated short time current Ith         10/L/CSA           15KA         A           16         15KA           Conductivity         10           Operational current Icw         15           Conductivity         10           220/230V         A           380/400V         A           380/400V         A           40         60/690V           220/230V         KW	Rotary cam			designation	Product designati
General characteristics         66           Switching diagram         96           N° of elements         3           Mounting form         104           Mounting form         104           Rated insulation voltage U         102           Rated insulation voltage U         102           Rated insulation voltage U         102           Rated operational voltage U         102           Rated operational voltage         V           Rated operational voltage         V           Rated operational voltage         V           Rated operational voltage         V           A         16           15kA         A           16kA         A           16kA         A           16kA         A           16kA         A           16         10kA           17kA         A           16         25kA           16         220/230V           17         A           18         A           220/230V         A           380/440V         A           100         220/230V           220/230V         KW           100	switches GX16			-	-
Switching diagram         66 Switching diagram         56 Switching diagram           N° of elements         3           Mounting form         3           Mounting form         40           Rated insulation voltage Ui         10           Exc/EN         V           Rated insulation voltage Ui         10           Exc/EN         V           Rated insulation voltage Uinp         KV           Conventional free air thermal current Ith         10           IEC/EN         A           Rated operational voltage         V           Maximum fuse size for short-circuit protection In (gG)         10kA           Maximum fuse size for short-circuit protection In (gG)         10kA           A         16           AC1/AC21A         10           AC15         10V           A         16           AC15         10V           A         16           AC15         10V           Single-phase AC-3         10V           Single-phase AC-3         10V           Single-phase AC23A         220/230V           XW         1.5           AC2020V         KW	OX10				
Mounting form         U4           Mounting form         Iff           Rated insulation voltage Ui         IEC/EN         V           Rated insulation voltage Uimp         kV         60           Rated inpulse withstand voltage Uimp         kV         60           Conventional free air thermal current Ith         IEC/EN         A         16           Rated operational voltage         V         44           Maximum fuse size for short-circuit protection In (gG)         10kA         A         16           Rated short time current Icw         1s         A         25           Conductivity         1s         A         25           Operational current Ic IEC/EN         A         16           AC15         110V         A         10           Operational current Ic IEC/EN         A         16           AC15         110V         A         10           220/230V         A         8         380/400V         A           Gonductivity         15         380/440V         4           Gonductivity         15         380/440V         4           Gonductivity         15         380/440V         4           Gondige phase AC-3         220/230V </td <td>66 - Voltmeter switch for phase- neutral and phase-phase voltages</td> <td></td> <td></td> <td></td> <td></td>	66 - Voltmeter switch for phase- neutral and phase-phase voltages				
Mounting form         from           Contact characteristics         722           Rated insulation voltage UI         IEC/EN         V         693           UL/CSA         V         600           Rated inpulse withstand voltage Uimp         KV         6           Conventional free air thermal current Ith         IEC/EN         A         16           UL/CSA         V         44         A         16           UL/CSA         V         44         A         16           UL/CSA         V         44         A         16           Rated operational voltage         V         44         A         16           Rated operational impulse voltage         KV         4         A         16           Rated short time current lcw         1s         A         25i           Conductivity         10         10         200/230V         A         8           AC11/C21A         A         16         10V         A         4           AC11/C21A         A         16         20/230V         A         4           AC10         220/230V         A         4         660/690V         A         1.5           Rated operatio				ments	N° of elements
IEC/EN         V         690 UL/CSA           Rated impulse withstand voltage Uimp         kV         6           Conventional free air thermal current Ith         IEC/EN         A         16           Rated operational voltage         V         444           Rated operational voltage         V         444           Rated operational impulse voltage         kV         4           Maximum fuse size for short-circuit protection In (gG)         10kA         A         16           15kA         A         16         15kA         A         16           Conductivity         1s         A         25k         A         10           Operational current Icw         1s         A         25k         A         10           Operational current Ie IEC/EN         A         16         10kV         A         10           AC1/AC21A         A         10         220/230V         A         4           AC05         110V         A         4         660/690V         A         4.5           Rated operational power in AC         220/230V         A         4         500/690V         KW         4.5           Single-phase AC-3         110V         kW <td< td=""><td>U47 - Snap on fron mounting with black handle for hole diam. 22mm finxing</td><td></td><td></td><td></td><td></td></td<>	U47 - Snap on fron mounting with black handle for hole diam. 22mm finxing				
IEC/EN         V         699 UL/CSA           Rated impulse withstand voltage Uimp         kV         6           Conventional free air thermal current Ith         IEC/EN         A         16           Rated operational voltage         V         44           Rated operational voltage         V         44           Rated operational impulse voltage         kV         4           Maximum fuse size for short-circuit protection In (gG)         10kA         A         16           15kA         A         16         15kA         A         16           25kA         A         16         15kA         A         16           Rated short time current lcw         1s         A         250         20/230V         A         8           AC1/AC21A         A         16         10V         A         10           AC15         110V         A         10         220/230V         A         8           Rated operational power in AC         Three-phase AC-3         220/230V         KW         4.5           Single-phase AC-3         110V         kW         4.5         380/40V         kV         4.5           Single-phase AC-3         110V         kW         4.5					
Conventional free air thermal current lth         IEC/EN         A         16           Rated operational voltage         V         44           Rated operational impulse voltage         kV         4           Maximum fuse size for short-circuit protection In (gG)         10kA         A         16           15kA         A         16         15kA         A         16           Rated operational impulse voltage         kV         4         4           Maximum fuse size for short-circuit protection In (gG)         10kA         A         16           Rated short time current Icw         1s         A         25/           Conductivity         10/         0/         10/           Operational current Ie IEC/EN         A         16           AC15         110V         A         10           220/230V         A         4         660/690V         A         1.5           Rated operational power in AC         1 <td>690 600</td> <td>V</td> <td></td> <td></td> <td></td>	690 600	V			
IEC/EN         A         16           Rated operational voltage         V         44           Rated operational impulse voltage         KV         4           Maximum fuse size for short-circuit protection In (gG)         10kA         A         16           15kA         A         16         15kA         A         16           Rated short time current lcw         1s         A         25k           Conductivity         1s         A         25k           Qperational current le IEC/EN         AC1/AC21A         A         10           AC15         10V         A         10           220/230V         A         8         380/400V         A           Rated operational power in AC         Three-phase AC-3         220/230V         KW         4.5           Single-phase AC-3         110V         KW         0.5           220/230V         kW         5.5         380/440V         kW         2.2           Three-phase AC-3         110V         KW         0.5           220/230V         kW         1.5         380/440V         4.5           380/440V         KW         2.2         380/440V         2.2           Three-phase AC23A	6	kV			
Rated operational impulse voltage         kV         4           Maximum fuse size for short-circuit protection ln (gG)         10kA         A         16           15kA         A         16         15kA         A         16           Rated short time current lcw         1s         A         25         10////////////////////////////////////				onal free air thermal current Ith	Conventional free
Maximum fuse size for short-circuit protection ln (gG)         10kA         A         16           15kA         A         16           15kA         A         16           25kA         A         16           25kA         A         16           25kA         A         16           Conductivity         10,         10,           Operational current le IEC/EN         A         16           AC15         110V         A         10           220/230V         A         8         380/400V         A           660/690V         A         1.5         380/440V         kW         4.5           500/690V         kW         3.5         380/440V         kW         4.5           500/690V         kW         1.5         380/440V         kW         4.5           500/690V         kW         5.5         380/440V         kW         1.5           Single-phase AC-3         110V         KW         0.5         380/440V         kW         1.5           220/230V         kW         1.5         380/440V         kW         1.5           220/230V         kW         1.5         380/440V         kW </td <td>440</td> <td>V</td> <td></td> <td>perational voltage</td> <td>Rated operationa</td>	440	V		perational voltage	Rated operationa
10kA         A         16           15kA         A         16           25kA         A         16           Rated short time current lcw         1s         A         250           Conductivity         1s         A         250           Operational current le IEC/EN         AC1/AC21A         A         16           AC15         110V         A         10           220/230V         A         8         380/400V         A           AC15         110V         A         10           220/230V         A         8         380/400V         A           AC15         110V         A         10         220/230V         A           Rated operational power in AC         15         380/400V         A         4           660/690V         KW         3.5         380/40V         KW         4.5           Single-phase AC-3         110V         kW         0.5         220/230V         kW         1.5           Single-phase AC-3         110V         kW         0.5         380/440V         kW         2.2           Three-phase AC23A         220/230V         kW         3.7         380/440V         KW	4	kV			
15kA         A         16           Rated short time current lcw         1s         A         25i           Conductivity         10/         10/           Operational current le IEC/EN         AC1/AC21A         A         16           AC15         110V         A         10           220/230V         A         8         380/400V         A         4           660/690V         A         1.5         380/40V         A         4           AC15         110V         A         10/         220/230V         A         8           Rated operational power in AC         1.5         380/40V         A         4.5           Single-phase AC-3         220/230V         kW         3.5           Single-phase AC-3         110V         KW         0.5           Single-phase AC-3         110V         kW         0.5           220/230V         kW         5.5         5           Single-phase AC-3         110V         kW         0.5           220/230V         kW         1.5         380/440V         kW         2.5           380/440V         kW         2.2         380/440V         kW         2.5				n fuse size for short-circuit protection In (gG)	Maximum fuse siz
25kA         A         16           Rated short time current lcw         1s         A         250           Conductivity         10/         10/           Operational current le IEC/EN         AC1/AC21A         A         16           AC15         110V         A         10           220/230V         A         8         380/400V         A         4           660/690V         A         1.5         500/690V         A         1.5           Rated operational power in AC         Three-phase AC-3         220/230V         kW         3.5           Single-phase AC-3         110V         kW         3.5         500/40V         kW         4.5           220/230V         kW         3.5         380/440V         kW         3.5           Single-phase AC-3         110V         kW         0.5         380/440V         kW         1.5           380/440V         kW         1.5         380/440V         kW         1.5           Three-phase AC23A         110V         kW         2.2         3.5					
Rated short time current lcw         1s         A         250           Conductivity         10/         10/         10/           Operational current le IEC/EN         AC1/AC21A         A         16           AC15         110V         A         10           220/230V         A         8         380/400V         A         4           660/690V         A         1.5         1.5         1.5         1.5           Rated operational power in AC         Three-phase AC-3         220/230V         kW         3.5           Single-phase AC-3         110V         kW         4.5         500/690V         kW         4.5           Single-phase AC-3         110V         kW         0.5         500/690V         kW         1.5           Three-phase AC-3         110V         kW         0.5         500/690V         kW         1.5           Single-phase AC-3         110V         kW         0.5         500/690V         kW         1.5           Single-phase AC-3         110V         kW         0.5         500/690V         kW         1.5           220/230V         kW         1.5         380/440V         kW         2.2           Three-phase AC23A<					
1s         A         250           Conductivity         10/           Operational current le IEC/EN         AC1/AC21A           AC15         110V         A         10           AC15         110V         A         10           220/230V         A         8         380/400V         A         4           660/690V         A         1.5         5         1.5         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         3         5         5         5         3         3         5         5         3         5         5         3         5         5         5         3         5         5         3         3         5         3         5         3         5         3         5         5         <	16	A	25kA	ant time a surrent law	Dated about time
Conductivity         10/           Operational current le IEC/EN         AC1/AC21A         A         16           AC15         110V         A         10           AC15         110V         A         10           220/230V         A         8         380/400V         A         4           660/690V         A         1.5         1.5         1.5         1.5           Rated operational power in AC         Three-phase AC-3         220/230V         kW         3.5           Single-phase AC-3         110V         kW         0.5         500/690V         kW         5.5           Single-phase AC-3         110V         kW         0.5         220/230V         kW         1.5           380/440V         kW         2.2         380/440V         kW         0.5           220/230V         kW         1.5         380/440V         kW         2.2           Three-phase AC23A         220/230V         kW         3.7	250	٨	10	on time current icw	Rated short time
Operational current le IEC/EN         A         16           AC1/AC21A         A         16           AC15         110V         A         10           220/230V         A         8         380/400V         A         4           660/690V         A         1.5         15         15         15           Rated operational power in AC           Three-phase AC-3         220/230V         kW         3.5           Single-phase AC-3         220/230V         kW         4.5           Single-phase AC-3         110V         kW         0.5           Single-phase AC-3         110V         kW         0.5           Single-phase AC-3         110V         kW         0.5           220/230V         kW         1.5         380/440V         kW         1.5           Single-phase AC-3         110V         kW         0.5         220/230V         kW         1.5           380/440V         kW         2.2         380/440V         kW         2.2           Three-phase AC23A         220/230V         kW         3.7	10/5 mA/V	~	15	vity	Conductivity
AC1/AC21A AC15 AC15 110V A 10 220/230V A 8 380/400V A 4 660/690V A 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 110V kW 0.5 220/230V kW 1.5 380/440V kW 2.2 Three-phase AC23A 220/230V kW 3.7					
110V         A         10           220/230V         A         8           380/400V         A         4           660/690V         A         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         110V         kW         0.5           220/230V         kW         1.5         380/440V         kW         1.5           Single-phase AC-3         110V         kW         0.5         380/440V         kW         2.2           Three-phase AC23A         220/230V         kW         3.7	16	A			
220/230V         A         8           380/400V         A         4           660/690V         A         1.5           Rated operational power in AC           Three-phase AC-3         220/230V         kW         3.5           380/440V         kW         4.5         500/690V         kW         4.5           Single-phase AC-3         110V         kW         0.5         220/230V         kW         1.5           Single-phase AC-3         110V         kW         0.5         220/230V         kW         1.5           Three-phase AC23A         220/230V         kW         3.7         380/440V         kW         3.7				AC15	
380/400V         A         4           660/690V         A         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         110V         kW         0.5           220/230V         kW         1.5         380/440V         kW         1.5           Three-phase AC-3           Three-phase AC23A           Three-phase AC23A					
660/690V         A         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         110V         kW         0.5           220/230V         kW         1.5         380/440V         kW         1.5           Three-phase AC-3           Three-phase AC23A           Three-phase AC23A					
Single-phase AC-3         220/230V         kW         3.5           Single-phase AC-3         380/440V         kW         4.5           Single-phase AC-3         500/690V         kW         5.5           Single-phase AC-3         110V         kW         0.5           220/230V         kW         1.5         380/440V         kW         2.2           Three-phase AC23A         220/230V         kW         3.7					
Three-phase AC-3       220/230V       kW       3.5         380/440V       kW       4.5         500/690V       kW       5.5         Single-phase AC-3       110V       kW       0.5         220/230V       kW       1.5         380/440V       kW       2.2         Three-phase AC23A       220/230V       kW       3.7	1.5	А	00/690V	parational power in AC	Pated aparations
220/230V kW 3.5 380/440V kW 4.5 500/690V kW 5.5 Single-phase AC-3 110V kW 0.5 220/230V kW 1.5 380/440V kW 2.2 Three-phase AC23A 220/230V kW 3.7					
380/440V       kW       4.5         500/690V       kW       5.5         Single-phase AC-3       110V       kW       0.5         220/230V       kW       1.5         380/440V       kW       2.2         Three-phase AC23A       220/230V       kW       3.7	3.5	kW	20/230\/	mee-phase AC-S	
500/690V         kW         5.5           Single-phase AC-3         110V         kW         0.5           220/230V         kW         1.5         380/440V         kW         2.2           Three-phase AC23A         220/230V         kW         3.7	4.5				
Single-phase AC-3       110V       kW       0.5         220/230V       kW       1.5         380/440V       kW       2.2         Three-phase AC23A       220/230V       kW       3.7	5.5				
110V       kW       0.5         220/230V       kW       1.5         380/440V       kW       2.2         Three-phase AC23A       220/230V       kW       3.7				Single-phase AC-3	
380/440V kW 2.2 Three-phase AC23A 220/230V kW 3.7	0.55				
Three-phase AC23A 220/230V kW 3.7	1.5				
220/230V kW 3.7	2.2	kW	380/440V		
	0.7			I hree-phase AC23A	
380/440V kW 6.5	3.7 6.5				
	7.5				
Single-phase AC23A				 Single-phase AC23A	

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	110V	kW	0.75
	220/230V	kW	1.8
	380/440V	kW	3
Rated operational current in DC			
DC21A			
	48V	А	16
	60V	A	16
	110V	A	4
	220V	A	0.6
	440V	A	0.25
DC23A (poles in series)	0.417	۸	40 (4)
	24V 48V	A	16 (1) 16 (2)
	48V 60V	A A	16 (2) 16 (3)
	110V	A	10 (3)
	220V	A	7 (4)
DC13	2201	~	7 (4)
	24V	А	16
	48V	A	14
	40V 60V	A	10
	110V	A	1
	220V	A	0.4
	440V	A	0.15
Power dissipation		W	0.6
Mechanical features			0.0
Ferminals screw			3M
Fightening torque for terminals max		Nm	0.5
Conductor size			
AWG - Rigid cable			
u u u u u u u u u u u u u u u u u u u	min	AWG	20
	Max	AWG	12
AWG - Flexible cable			
	min	AWG	20
	Max	AWG	12
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		cycles	1X10 <sup>6</sup>
JL technical data			
Notor 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
Ambient conditions			

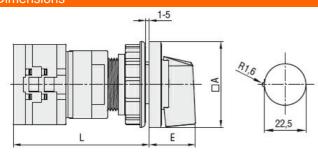
# Operating temperature

GX1666U47



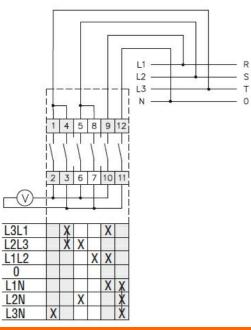
## **GX1666U47** ROTARY CAM SWITCH GX SERIES, VOLTMETER SWITCH FOR PHASE-NEUTRAL AND PHASE-PHASE VOLTAGES 16A, FOR SNAP ON FRONT MOUNTING WITH BLACK HANDLE FOR HOLE Ø22MM FIXING, FRONT PLATE 48X48MM

	min	°C	-25
	max	°C	+55
Storage temperature			
	min	°C	-40
	max	°C	+70
Resistance & Protection			
Frontal IP degree			IP65
Terminals IP degree			IP20
Dimensions			



Carias	Dimensions		Dimensions			L			
Series	□A	E	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	
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

GX1666U47





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cULus EAC

ETIM classification

ETIM 8.0

EC001029 -Selector switch, complete