## GF2091088



ROTARY CAM SWITCH GF SERIES, ON-OFF SWITCH 2 POLES 20A, FOR REAR MOUNTING WITH RED/YELLOW HANDLE PADLOCKABLE IN 0, DOOR COUPLING AND PROTECTION COVERS, FRONT PLATE 48X48MM

$\begin{array}{c c c c c c c c c c c c c c c c c c c $				
General characteristics       91 - ON/OFF         Switching diagram       91 - ON/OFF         N° of elements       1         Mounting form       088 - Rear         Mounting form       odder coupling         Contact characteristics       red/yellow handle         Rated insulation voltage UI       IEC/EN       V         480       UL/CSA       V         Conventional free air thermal current Ith       IEC/EN       V         Conventional free air thermal current Ith       IEC/EN       A         Rated operational voltage       V       480         Rated operational voltage       V       480         Rated operational voltage       KV       4         Conductivity       10kA       A       20         15kA       A       20       15kA       A       20         16kA       A       20       15kA       A       20         15kA       A       20       15kA       A       20         16kA       A       20       15kA       A       20         15kA       A       20       15kA       A       20         15kA       A       20       20       25kA       A	Product designation			
Switching diagram       91 - 0NOFF         N° of elements       1         N° of elements       088 - Rear         Mounting form       088 - Rear         Contact characteristics       red/yellow handle         Rated insulation voltage Ui       IEC/EN       V         UL/CSA       V       2480         Rated insulation voltage Uinp       kV       4         Conventional free air thermal current Ith       IEC/EN       X         Rated operational voltage       kV       4         Rated operational imputes voltage       kV       4         Maximum fuse size for short-circuit protection In (gG)       10kA       A       20         15kA       A       20       15kA       A       20         25kA       A       20       15kA       A       20         15kA       A       20       15kA       A       20         16kA       A       20       20/t30V       20/t30V       20/t30V <td></td> <td></td> <td></td> <td>GF20</td>				GF20
Switching diagram switch 2 poles N° of elements 1 1 Mounting form $2083 - Rear mounting with red/yellow handle padiockable in 0, door coupling and protection covers  Contact characteristics Rated insulation voltage Ui IEC/EN V 480 UL/CSA V 240  Rated insulation voltage Uimp k/V 4  Conventional free air thermal current Ith IEC/EN A 20 UL/CSA A 15  Rated operational woltage Rated operational impulse voltage k/V 4  Maximum fuse size for short-circuit protection In (gG) 10kA A 20  Rated short time current Icw 15kA A 20  Rated short time current Icw 10/S mA/V  Operational current Icw 16kA A 20  Rated operational power in AC  Three-phase AC-3  220/230V KW 3  Single-phase AC-3  110V kW 0.5  220/230V kW 1.5  Single-phase AC-3  Single-phase AC-3  110V kW 0.5  220/230V kW 1.5  Single-phase AC-3  110V kW 0.5  220/230V kW 1.5  Single-phase AC-3  110V kW 0.5  220/230V kW 3  Single-phase AC-3  110V kW 0.5  220/230V kW 4  Single-phase AC-3  110V kW 0.5  220/230V kW 4  Single-phase AC-3  110V kW 4  Single-phase AC-3  Single-phase AC-3  Single-phase AC-3  Single-phase AC-3  Single-phase AC-3  Single-phase AC-3  Single-phase AC$	General characteristics			
Mounting form     O68 - Rear mounting with red/yellow handle padlockable in 0, door coupling and protection covers       Contact characteristics     IEC/EN     V     480       Rated insulation voltage Ui     IEC/EN     V     480       Rated insulation voltage Ui     IEC/EN     V     480       Rated insulation voltage Uimp     KV     4       Conventional free air thermal current lth     IEC/EN     A     20       Rated operational voltage     V     480     480       Rated operational impulse voltage     V     480       Rated short time current lcw     10kA     A     20       Conductivity     10kA     A     20       Quertational current le IEC/EN     A     20     25kA     A       Act15     110V     A     10       Act15     110V     A     10       Rated operational power in AC     Three-phase AC-3     220/230V     KW     3       Single-phase AC-3     110V     KW     3	Switching diagram			
Mounting form       mounting with red/yellow handle padlockable in 0, door coupling and protection covers         Contact characteristics       iEC/EN       V       480         Rated insulation voltage Ui       iEC/EN       V       480         Conventional free air thermal current Ith       iEC/EN       A       20         Rated operational voltage       kV       4       4         Conventional free air thermal current Ith       iEC/EN       A       20         Rated operational voltage       kV       4       4         Maximum fuse size for short-circuit protection In (gG)       10kA       A       20         Rated short time current Icw       10kA       A       20         Conductivity       10/5 mA/V       20         Operational current Icw       1s       kA       20         AC15       110V       A       10         AC15       110V       A       8         380/400V       A       6       6         Rated operational power in AC       220/230V       KW       3         Actification       380/400V       KW       3         Single-phase AC-3       110V       KW       3         Single-phase AC-3       110V       KW <td>N° of elements</td> <td></td> <td></td> <td></td>	N° of elements			
Rated insulation voltage Ui           IEC/EN         V         480           UL/CSA         V         240           Rated impulse withstand voltage Uimp         k/V         4           Conventional free air thermal current Ith         IEC/EN         A         20           Rated operational voltage         V         480         4           Rated operational impulse voltage         V         480         4           Maximum fuse size for short-circuit protection In (gG)         10kA         A         20           15kA         A         20         25kA         A         20           25kA         A         20         25kA         A         20           Rated short time current Icw         1s         kA         20         25kA         A         20           Conductivity         10/5 mA/V         00perational current Ic IEC/EN         10/5 mA/V         00perational current Ic IEC/EN         4         20           AC1/AC21A         A         20         220/230V         A         8         380/400V         A         6           Rated operational power in AC         110V         A         10         220/230V         KW         3         380/440V         KW				mounting with red/yellow handle padlockable in 0, door coupling and protection
$\begin{tabular}{ c c c c c c c c c c } & V & 480 \\ \hline \end{tabular} UL/CSA & V & 240 \\ \hline \end{tabular} Rated inpulse withstand voltage Uimp & kV & 4 \\ \hline \end{tabular} Conventional free air thermal current Ith & $$IEC/EN & A & 20 \\ $$UL/CSA & A & 15$ \\\hline \end{tabular} Rated operational voltage & V & 480 \\\hline \end{tabular} Rated operational inpulse voltage & kV & 4 \\\hline \end{tabular} Maximum fuse size for short-circuit protection In (gG) & $$10kA & A & 20 \\ $$10kA & A & 20 \\ $$15kA & A & 20$ \\\hline \end{tabular} Rated short time current Icw & $$$15$ \\\hline \end{tabular} Rated short time current Icw & $$$$15$ \\\hline \end{tabular} Conductivity & $$$$10kA & $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$				
UL/CSA         V         240           Rated impulse withstand voltage Uimp         kV         4           Conventional free air thermal current Ith         IEC/EN         A         20           UL/CSA         A         15         IEC/EN         A         20           Rated operational voltage         V         480         Rated operational impulse voltage         V         480           Rated operational impulse voltage         kV         4         Maximum fuse size for short-circuit protection In (gG)         10kA         A         20           15kA         A         20         15kA         A         20           Rated short time current lcw         1         1         kA         20           Conductivity         1         kA         20         10/5 mA/V           Operational current lc IEC/EN         100/5 mA/V         10/5 mA/V           AC1/AC21A         A         20         20/230V         A         8           Rated operational power in AC         10V         A         10         220/230V         A         8           Rated operational power in AC         1         220/230V         KW         3         380/40V         A         6           Single-phase AC-	Rated insulation voltage Ui		V	490
Rated impulse withstand voltage Uimp         kV         4           Conventional free air thermal current lth         IEC/EN         A         20           UL/CSA         A         15           Rated operational voltage         V         480           Rated operational impulse voltage         KV         4           Maximum fuse size for short-circuit protection ln (gG)         10kA         A         20           15kA         A         20         25kA         A         20           Rated short time current lcw         1s         kA         20         25kA         A         20           Conductivity         1s         kA         250         10/5 mA/V         0         0/5 mA/V           Operational current le IEC/EN         10/5 mA/V         10/5 mA/V         0         220/230V         A         8         380/400V         A         6           Rated operational power in AC         110V         A         10         220/230V         A         8           380/400V         A         6         380/400V         A         6           Rated operational power in AC         110V         KW         3         380/40V         5           380/400V         KW			-	
Conventional free air thermal current lth         IEC/EN         A         20           Rated operational voltage         V         480           Rated operational impulse voltage         kV         4           Maximum fuse size for short-circuit protection ln (gG)         10kA         A         20           15kA         A         20         15kA         A         20           Rated short time current lcw         1s         kA         20         25kA         A         20           Conductivity         1s         kA         250         10/5 mA/V         0         0/5 mA/V           Operational current lcW         1s         kA         20         2         <	Rated impulse withstand voltage Uimp	02,00,1		
UL/CSA         A         15           Rated operational voltage         V         480           Rated operational impulse voltage         kV         4           Maximum fuse size for short-circuit protection In (gG)         10kA         A         20           15kA         A         20         25kA         A         20           Rated short time current lcw         1s         kA         250           Conductivity         10/5 mA/V         0         10/5 mA/V           Operational current le IEC/EN         A         20           AC1/AC21A         A         20           AC15         110V         A         10           220/230V         A         8         380/400V         A         6           Rated operational power in AC         Three-phase AC-3         220/230V         kW         3           Single-phase AC-3         110V         KW         3         380/400V         kW         5				
Rated operational voltage         V         480           Rated operational impulse voltage         kV         4           Maximum fuse size for short-circuit protection ln (gG)         10kA         A         20           15kA         A         20         25kA         A         20           Rated short time current lcw         1s         kA         250         20           Conductivity         10/5 mA/V         10/5 mA/V         0         10/5 mA/V           Operational current le IEC/EN         A         20         A         20           AC1/AC21A         A         20         A         8         380/400V         A         6           Rated operational power in AC         Three-phase AC-3         220/230V         kW         3         380/400V         A         6           Single-phase AC-3         110V         KW         3         380/400V         KW         5				
Rated operational impulse voltage         kV         4           Maximum fuse size for short-circuit protection ln (gG)         10kA         A         20           15kA         A         20         15kA         A         20           Rated short time current lcw         1s         kA         250         25kA         A         20           Conductivity         1s         kA         250         10/5 mA/V         0/2 mA/V           Operational current le IEC/EN         AC1/AC21A         A         20         AC15         10/2 mA/V           AC15         110V         A         10         220/230V         A         8           Rated operational power in AC         110V         A         6         8         380/400V         A         6           Rated operational power in AC         100/2 mA/V         10/2 mA/V         10/2 mA/V         10/2 mA/V         10/2 mA/V         10/2 mA/V           Single-phase AC-3         10/2 mA/V		UL/CSA		
Maximum fuse size for short-circuit protection ln (gG)         10kA         A         20           15kA         A         20         25kA         A         20           Rated short time current low         1s         kA         250           Conductivity         1s         kA         250           Operational current le IEC/EN         10/5 mA/V         10/5 mA/V           AC1/AC21A         A         20           AC15         110V         A         10           220/230V         A         8         380/400V         A         6           Rated operational power in AC         Three-phase AC-3         220/230V         kW         3         380/440V         kW         5           Single-phase AC-3         110V         kW         0.5         220/230V         kW         1.5				
10kA         A         20           15kA         A         20           Rated short time current lcw         1s         kA         250           Conductivity         10/5 mA/V           Operational current le IEC/EN         10/5 mA/V           AC1/AC21A         A         20           AC15         110V         A         10           220/230V         A         8         380/400V         A         6           Rated operational power in AC         Three-phase AC-3         220/230V         kW         3         380/440V         kW         5           Single-phase AC-3         110V         kW         0.5         220/230V         kW         1.5			ΚV	
25kA         A         20           Rated short time current lcw         1s         kA         250           Conductivity         10/5 mA/V           Operational current le IEC/EN AC1/AC21A         A         20           AC15         110V         A         10           220/230V         A         8         380/400V         A         6           Rated operational power in AC         Three-phase AC-3         220/230V         kW         3         380/440V         kW         5           Single-phase AC-3         110V         kW         0.5         220/230V         kW         1.5		10kA	А	20
Rated short time current lcw         1s         kA         250           Conductivity         10/5 mA/V           Operational current le IEC/EN         AC1/AC21A         A         20           AC15         110V         A         10           220/230V         A         8         380/400V         A         6           Rated operational power in AC         Three-phase AC-3         220/230V         kW         3           Single-phase AC-3         110V         kW         0.5         220/230V         kW         1.5		15kA	А	20
1s         kA         250           Conductivity         10/5 mA/V           Operational current le IEC/EN         AC1/AC21A           AC1/AC21A         A         20           AC15         110V         A         10           220/230V         A         8         380/400V         A         6           Rated operational power in AC         Three-phase AC-3         220/230V         kW         3           Single-phase AC-3         110V         kW         5         5           Single-phase AC-3         110V         kW         0.5		25kA	А	20
Conductivity         10/5 mA/V           Operational current le IEC/EN         AC1/AC21A           AC15         110V         A         10           220/230V         A         8         380/400V         A         6           Rated operational power in AC           Three-phase AC-3         220/230V         KW         3           380/440V         KW         5         5           Single-phase AC-3           110V         KW         0.5           220/230V         KW         1.5	Rated short time current Icw			050
AC1/AC21A         A         20           AC15         110V         A         10           220/230V         A         8         380/400V         A         6           Rated operational power in AC           Three-phase AC-3         220/230V         kW         3           380/440V         kW         5         5           Single-phase AC-3           110V         kW         0.5           220/230V         kW         1.5	Conductivity	15	KA	
AC1/AC21A AC15 AC15 110V A 10 220/230V A 8 380/400V A 6 Rated operational power in AC Three-phase AC-3 220/230V kW 3 380/440V kW 5 Single-phase AC-3 110V kW 0.5 220/230V kW 1.5				
AC15       110V       A       10         220/230V       A       8         380/400V       A       6         Rated operational power in AC         Three-phase AC-3         220/230V       kW       3         Single-phase AC-3         110V       kW       0.5         220/230V       kW       1.5				
110V       A       10         220/230V       A       8         380/400V       A       6         Rated operational power in AC         Three-phase AC-3         220/230V       kW       3         380/440V       kW       5         Single-phase AC-3         110V       kW       0.5         220/230V       kW       1.5			А	20
220/230V       A       8         380/400V       A       6         Rated operational power in AC         Three-phase AC-3         220/230V       kW       3         380/440V       kW       5         Single-phase AC-3         110V       kW       0.5         220/230V       kW       1.5	AC15			
380/400V         A         6           Rated operational power in AC Three-phase AC-3           220/230V         kW         3           380/440V         kW         5           Single-phase AC-3           110V         kW         0.5           220/230V         kW         1.5				
Rated operational power in AC         Three-phase AC-3         220/230V         kW         3           380/440V         kW         5         5           Single-phase AC-3         110V         kW         0.5           220/230V         kW         1.5				
Three-phase AC-3       220/230V       kW       3         380/440V       kW       5         Single-phase AC-3       110V       kW       0.5         220/230V       kW       1.5	Rated operational power in AC	000,1001	7.	
380/440V         kW         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				
110V kW 0.5 220/230V kW 1.5	Circle share AC 2	380/440V	kW	5
220/230V kW 1.5	Single-phase AC-3	110\/	k\//	0.5

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



GF2091088 ROTARY CAM SWITCH GF SERIES, ON-OFF SWITCH 2 POLES 20A, FOR REAR MOUNTING WITH RED/YELLOW HANDLE PADLOCKABLE IN 0, DOOR COUPLING AND PROTECTION COVERS, FRONT PLATE 48X48MM

	Three-phase AC23A	000/0001/		
		220/230V	kW	4
		380/440V	kW	7.5
	Single-phase AC23A			
		110V	kW	0.75
		220/230V	kW	2
		380/440V	kW	2.5
Rated operational curre	ent in DC			
	DC21A			
	DOZIA	40\/	۸	20
		48V	A	20
		60V	Α	20
		110V	Α	4
		220V	Α	0.7
		440V	А	0.2
	DC13			
		24V	А	6
		48V	A	
				6
		60V	A	3
		110V	Α	1
		220V	A	0.4
		440V	А	0.15
Power dissipation			W	0.8
Mechanical features				
Terminals screw				M3
Tightening torque for te	rminals max		Nm	0.5
Conductor size				0.0
	AWG - Rigid cable			
		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>
UL technical data				
Motor power for direct-	on-line control			
	for three-phase motor			
		240V	HP	3
	for single phase motor	240 V	LIF	5
	for single-phase motor	- ·-··		
		240V	HP	1
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-25
		max	°Č	+55
	Storage temperature	max	<u> </u>	
	Storage temperature	!·	° <b>^</b>	40
		min	°C	-40
		max	°C	+70
Resistance & Protectio	n			

## GF2091088



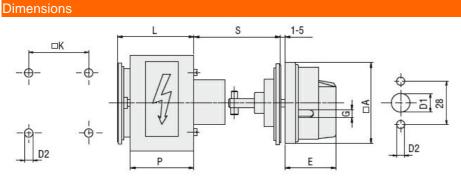
ENERGY AND AUTOMATION

ROTARY CAM SWITCH GF SERIES, ON-OFF SWITCH 2 POLES 20A, FOR REAR MOUNTING WITH RED/YELLOW HANDLE PADLOCKABLE IN 0, DOOR COUPLING AND PROTECTION COVERS, FRONT PLATE 48X48MM

Frontal IP degree

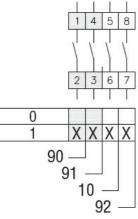






Cariaa	Dimensions					L					
Series	□A	D1	D2	E	G	□K	S	1	2	3	12
GF20	48	12	5	34.2	5	36	45-55	46	59.5	73	194.5

Wiring diagrams



# Certifications and compliance

#### 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
Certificates	
	cULus
	EAC
ETIM classification	

### ETIM 8.0

EC001029 -Selector switch, complete

GF2091088