

# **GF2020U** ROTARY CAM SWITCH GF SERIES, DAHLANDER MOTOR 2-SPEED REVERSING SWITCH, 20A, FOR FRONT MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

Product type designation GF20 General characteristics General characteristics General characteristics Switching diagram Product type designation General characteristics Rated inpulse withstand voltage Uimp KV 4 Conventional free air thermal current lth IEC/EN V 480 Rated operational voltage UL/CSA A 20 Rated operational voltage KV 4 Maximum fuse size for short-circuit protection ln (gG) 10kA A 20 15kA A 20 Rated short time current lev Conductivity Coperational current le IEC/EN A Conventional free AC-3 Conductivity Coperational power in AC Rated operational power in AC Friee-phase AC-3 Single-phase AC-3 Conductive C				Rotary cam		
General characteristics         20 - Dahlander motor 2-speed reversing switch 6           N° of elements         6           Mounting form         0 - Front mounting with black handle           Contact characteristics         8           Rated insulation voltage Ui         IEC/EN         V           Rated insulation voltage Uipp         KV         4           Conventional free air thermal current Ith         IEC/EN         A         20           Rated operational voltage         V         480         4           Conventional free air thermal current Ith         IEC/EN         A         20           Rated operational impulse voltage         kV         4         4           Maximum fuse size for short-circuit protection In (gG)         10kA         A         20           Conductivity         15         kA         20           Conductivity         10/5 mAV         0         15kA         20           Conductivity         10/5 mAV         0         20/202/20/20/20/20/20/20/20/20/20/20/20/	Product designation					
Switching diagram         20 - Dahlander motor 2-speed reversing switch           N° of elements         6           Mounting form         U-Front mounting with black handle           Contact characteristics         U// CSA           Rated insulation voltage UI         IEC/EN         V           Ated insulation voltage UI         IEC/EN         V           Rated insulation voltage UI         IEC/EN         V           Rated insulation voltage UImp         kV         4           Conventional free air thermal current Ith         IEC/EN         A         20           Rated operational voltage         V         480           Rated operational voltage         kV         4           Maximum fuse size for short-circuit protection In (gG)         10kA         A         20           15kA         A         20         25kA         A         20           Conductivity         10/5 mA/V         0         30/400V         A         6           Rated operational power in AC         Three-phase AC-3         20//230V         KW         3           Single-phase AC-3         110V         KW         0.5         20//230V         KW         3           20/230V         KW         3         380//40V	Product type designation			GF20		
Switching diagram         motor 2-speed reversing switch           N° of elements         6           Mounting form         U - Front mounting with black handle           Contact characteristics         mounting with black handle           Rated insulation voltage Ui         IEC/EN         V           Rated insulation voltage Uimp         KV         4           Conventional free air thermal current Ith         IEC/EN         A         20           Rated operational voltage         V         480         480           Rated operational voltage operational impulse voltage         KV         4           Conventional free air thermal current Ith         IEC/EN         A         20           Rated operational voltage voltage         KV         4         4           Conductivity         10kA         A         20           15KA         A         20         15KA         A         20           Rated operational impulse voltage         KV         4         4         4           Operational current Icw         1s         KA         20         15KA         A         20           Rated operational power in AC         10/5 mAV         20         4         6         380/400V         KW         5 </td <td>General characteristics</td> <td></td> <td></td> <td>20 Doblondor</td>	General characteristics			20 Doblondor		
N° of elements         6           Mounting form         U - Front mounting with black handle           Contact characteristics         IEC/EN         V         480           Rated inpulse withstand voltage Uimp         KV         4           Conventional free air thermal current Ith         IEC/EN         A         20           Rated operational voltage         V         480         480           Conventional free air thermal current Ith         IEC/EN         A         20           Rated operational impulse voltage         V         480         480           Rated operational impulse voltage         V         480         480           Rated operational impulse voltage         KV         4         4           Maximum fuse size for short-circuit protection In (gG)         10kA         A         20           Rated short time current lcw         1s         KA         250           Conductivity         10/5 mA/V         0         220/230V         A         8           AC1/AC21A         A         20         380/400V         A         8           Actis         110V         KW         0         220/230V         KW         3           Single-phase AC-3         220/230V         KW<	Switching diagram			motor 2-speed		
Mounting form         mounting with black handle           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 inpulse voltage         V         480         480           Rated short time current low         10KA         A         20           Conductivity         1s         kA         250           Conductivity         10/5 mA/V         40         20           AC1/AC21A         A         20         40           AC15         110V         A         10           220/230V         A         8         380/440V         KW           Single-phase AC-3         220/230V	N° of elements			-		
Rated insulation voltage Ui           IEC/EN         V         480           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           Rated operational voltage         V         480           Rated operational impulse voltage         V         480           Rated operational impulse voltage         V         480           Maximum fuse size for short-circuit protection In (gG)           IS kA         20           IS kA         20           Rated short time current lcw           IS kA         20           Conductivity         10/5           Conductivity         10/5           AC1/AC21A         20/230/V         KW         380/400/V         KW         380/400/V         KW         380/400/V         KW <th <="" colspan="2" td=""><td>Mounting form</td><td></td><td></td><td>mounting with</td></th>	<td>Mounting form</td> <td></td> <td></td> <td>mounting with</td>		Mounting form			mounting with
IEC/EN         V         480           Rated impulse withstand voltage Uimp         KV         4           Conventional free air thermal current Ith         IEC/EN         A         20           UL/CSA         A         15         15           Rated operational voltage         V         480         4           Rated operational voltage         V         480         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           Rated short time current Icw         1s         KA         250         10/5 mA/V           Operational current Ic         IEC/EN         A         20         220/230V         A         10           220/230V         A         10         220/230V         A         6           Rated operational power in AC         Three-phase AC-3         110V         S         380/400V         A           Single-phase AC-3         110V         KW         2         380/400V         KW         5           Single-phase AC-3         110V <t< td=""><td>Contact characteristics</td><td></td><td></td><td></td></t<>	Contact characteristics					
UL/CSA         V         240           Rated inpulse withstand voltage Ump         KV         4           Conventional free air thermal current lth         IEC/EN         A         20           Rated operational voltage         KV         4         480           Rated operational impulse voltage         KV         4         480           Rated operational impulse voltage         KV         4         20           10kA         A         20         25kA         A         20           25kA         A         20         25kA         A         20           Conductivity         10kA         A         20         20           Conductivity         10/5 mA/V         0         7         7           Qperational current lcw         10/5 mA/V         0         7         7           AC1/AC21A         A         20         4         8         380/400V         A         8           Rated operational power in AC         Three-phase AC-3         10/V         8         380/440V         8         380/440V         KW         3           Single-phase AC-3         10/V         KW         1.5         380/440V         KW         2 <t< td=""><td>Rated insulation voltage Ui</td><td></td><td></td><td></td></t<>	Rated insulation voltage Ui					
Rated impulse withstand voltage Uimp         kV         4           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 In (gG)         10kA         A         20           15KA         A         20         15kA         A         20           Rated short time current lcw         1s         kA         20         25kA         A         20           Conductivity         1s         kA         20         10kA         A         20           Conductivity         1s         kA         20         20/ts         20/ts         20/ts           Conductivity         1s         kA         20         20/ts         20/ts         20/ts           AC15         110V         A         10         220/230V         A         8           380/40V         A         6         20/ts         20/ts         20/ts           Fated operational power in AC         1s         220/230V         kW         3         380/440V         kW         2           Single-phase AC-3 <td></td> <td></td> <td>V</td> <td></td>			V			
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 In (gG)         10kA         A         20           15kA         A         20         15kA         A         20           Rated short time current lcw         1s         kA         20           Conductivity         1s         kA         20           Querational current le IEC/EN         10/5 mA/V         10/5 mA/V           Operational current le IEC/EN         AC1/AC21A         A         20           AC15         110V         A         10         220/230V         A         8           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         4           380/440V         kW         5         380/440V         KW         2         380/440V         KW         2           Three-phase AC23A         220/230V         kW         4		UL/CSA				
IEC/EN         A         20           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 Icw         1s         kA         20         25kA         A         20           Conductivity         1s         kA         250         20         20/2			kV	4		
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         15kA         A         20           Rated short time current lcw         1s         kA         20           Conductivity         1s         kA         250           Conductivity         10/5 mA/V         00/5 mA/V           Operational current leC/EN         AC1/AC21A         A         20           AC15         110/V         A         10           220/230V         A         8         380/400V         A           Rated operational power in AC         Three-phase AC-3         10/V         XW         3           Single-phase AC-3         110/V         KW         3         380/40V         kW         2           Three-phase AC-3         10/V         KW         4         380/40V         4         380/40V         4         380/40V         4         380/40V         4         380/40V         4         380/40V         2         2         380/40V	Conventional free air thermal current Ith		-			
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 Icw         1s         kA         250         20           Conductivity         1s         kA         250         20           Querational current Ie IEC/EN         10/5 mA/V         0         220/230V         A         8           AC15         110V         A         10         220/230V         A         8           Rated operational power in AC         Three-phase AC-3         220/230V         kW         3           Single-phase AC-3         110V         kW         0.5         220/230V         kW         3           Single-phase AC-3         110V         kW         0.5         220/230V         kW         4           380/440V         kW         0.5         220/230V         kW         4         380/440V         kW         2           Three-phase AC23A         110V         kW         0.75         220/230V         kW         4						
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         1s         kA         250         25kA         A         20           Conductivity         1s         kA         250         10/5 mA/V         0/5 mA/V           Operational current le IEC/EN         AC1/AC21A         A         20         AC15         10/5 mA/V           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         5           Single-phase AC-3         110V         kW         0.5         220/230V         kW         1.5           380/440V         kW         2         380/440V         kW         2         1           Three-phase AC23A         220/230V         kW         4         380/440V         kW         2           Three-phase AC23A         220/230V         kW         4         380/440V         kW	Deterior entities el contra se	UL/CSA				
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         25kA         A         20           Conductivity         1s         kA         250         10/5 mA/V         0         0           Operational current le IEC/EN         AC1/AC21A         A         20         220/230V         A         8           AC15         110V         A         10         220/230V         A         8           Rated operational power in AC         Three-phase AC-3         220/230V         kW         3           Single-phase AC-3         110V         kW         0.5         220/230V         kW         2           Three-phase AC-3         110V         kW         0.5         220/230V         kW         4         380/440V         kW         2           Three-phase AC23A         20/230V         kW         4         380/440V         kW         2           Three-phase AC23A         20/230V         kW         4         380/440V         kW         2           Single-phase AC23A         110V						
10kA         A         20           15kA         A         20           Rated short time current lcw         1s         kA         250           Conductivity         10/5 mA/V         10/5 mA/V           Operational current le IEC/EN         4         20           AC1/AC21A         A         20           AC15         110V         A         10           220/230V         A         8         380/400V         A           Rated operational power in AC         110V         A         6           Rated operational power in AC         220/230V         kW         3           Single-phase AC-3         220/230V         kW         5           Single-phase AC-3         110V         kW         0.5           220/230V         kW         1.5         380/440V         kW         2           Three-phase AC-3         110V         kW         2         1           Three-phase AC-3         110V         kW         2         1           Single-phase AC-3         110V         kW         2         1           Single-phase AC23A         20/230V         kW         4         380/440V         380/440V         2 <td< td=""><td></td><td></td><td>KV</td><td>4</td></td<>			KV	4		
15kA         A         20           Rated short time current lcw         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	Maximum ruse size for short-circuit protection in (gG)	1044	۸	20		
25kA         A         20           Rated short time current low         1s         kA         250           Conductivity         10/5 mA/V         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         0.5         220/230V         kW         2           Three-phase AC-3         110V         kW         0.5         220/230V         kW         2           Single-phase AC-3         110V         kW         2         15         380/440V         kW         2           Three-phase AC23A         220/230V         kW         4         380/440V         kW         2           Three-phase AC23A         380/440V         kW         2         380/440V         kW         2           Single-phase AC23A         110V         kW         2.5         380/440V         2         380/440V         2						
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         100V         A         10           AC15         110V         A         10         220/230V         A         8           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           380/40V         kW         2         380/440V         kW         2         380/440V         kW         2           Three-phase AC-3         110V         kW         0.5         220/230V         kW         4           380/440V         kW         2         380/440V         kW         2           Three-phase AC23A         220/230V         kW         4         380/440V         kW         2           Single-phase AC23A         110V         kW         0.75         220/230V         kW         2           Single-phase AC23A         110V         kW         2.5         380/440V         kW         2.5						
1s         kA         250           Conductivity         10/5 mA/V           Operational current le IEC/EN         A         20           AC1/AC21A         A         20           AC15         110V         A         10           Z20/230V         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           380/440V         KW         2         380/440V         kW         2         1.5           Single-phase AC-3         110V         kW         1.5         380/440V         kW         2           Three-phase AC23A         220/230V         kW         4         380/440V         kW         2           Three-phase AC23A         220/230V         kW         4         380/440V         kW         2           Three-phase AC23A         110V         kW         0.75         380/440V         kW         2           Single-phase AC23A         110V         kW         2.5         380/440V         2.5           Rated opera	Rated short time current Icw	2010 1				
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         380/440V         kW         2           Three-phase AC23A         110V         kW         0.5         220/230V         kW         4           380/440V         kW         2         380/440V         kW         2           Three-phase AC23A         220/230V         kW         4         380/440V         kW         7.5           Single-phase AC23A         110V         kW         0.75         220/230V         kW         2           Three-phase AC23A         110V         kW         2.5         380/440V         kW         2.5           Rated operational current in DC         DC21A         2.5         380/440V         kW         2.5		1s	kA	250		
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         380/440V         kW         2           Three-phase AC-3         110V         kW         0.5         220/230V         kW         4           380/440V         kW         2         7         7.5         5           Single-phase AC23A         220/230V         kW         4         380/440V         kW         2.5           Rated operational current in DC         220/230V         kW         2.5         5	Conductivity					
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           380/400V         KW         3         380/440V         kW         5           Single-phase AC-3         110V         kW         0.5         220/230V         kW         1.5           380/440V         kW         2         110V         kW         0.5         220/230V         kW         4           380/440V         kW         2         110V         kW         0.5         220/230V         kW         4         380/440V         kW         2           Three-phase AC23A         220/230V         kW         4         380/440V         kW         2           Three-phase AC23A         110V         kW         0.75         220/230V         kW         2           Single-phase AC23A         110V         kW         0.75         220/230V         kW         2           Single-phase AC23A         110V         kW         2.5         380/440V         KW         2.5      Ra	Operational current le IEC/EN					
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         380/440V         kW         2           Three-phase AC-3         110V         kW         0.5         220/230V         kW         4           380/440V         kW         2         2         7         5         3           Single-phase AC23A         220/230V         kW         4         380/440V         4         3           Single-phase AC23A         110V         kW         0.75         220/230V         kW         2           Single-phase AC23A         110V         kW         2.5         3         3         3           Rated operational current in DC         DC21A         2         3         3         4         4         3	AC1/AC21A					
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         380/440V         kW         2           Three-phase AC23A         110V         kW         4         380/440V         kW         4           380/440V         kW         7.5         380/440V         kW         2           Three-phase AC23A         110V         kW         4         380/440V         kW         2           Single-phase AC23A         110V         kW         2         380/440V         kW         2			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         3           Single-phase AC-3           110V         kW         0.5           220/230V         kW         1.5         380/440V         kW         2           Three-phase AC23A           Three-phase AC23A           20/230V         kW         4           380/440V         kW         2           Three-phase AC23A           20/230V         kW         4           380/440V         kW         2           Three-phase AC23A           20/230V         kW         4           380/440V         kW         2           Single-phase AC23A           110V         kW         0.75           20/230V         kW         2           380/440V         kW         2.5           Rated operational c	AC15					
380/400V         A         6           Rated operational power in AC           Three-phase AC-3         220/230V         kW         3						
Three-phase AC-3         220/230V         kW         3           Single-phase AC-3           110V         kW         0.5           Single-phase AC-3           110V         kW         0.5           220/230V         kW         1.5           380/440V         kW         2           Three-phase AC23A           220/230V         kW         4           380/440V         kW         7.5           Single-phase AC23A           110V         kW         0.75           220/230V         kW         2           Single-phase AC23A           110V         kW         0.75           380/440V         kW         2           380/440V         kW         2         380/440V         kW         2.5           Rated operational current in DC         DC21A						
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       380/440V       kW       2         Three-phase AC23A       220/230V       kW       4       380/440V       kW       2         Three-phase AC23A       220/230V       kW       4       380/440V       kW       7.5         Single-phase AC23A       110V       kW       0.75       220/230V       kW       2         Single-phase AC23A       110V       kW       2.5       380/440V       kW       2         Rated operational current in DC       DC21A       JC21A		380/400V	A	6		
220/230V         kW         3           380/440V         kW         5           Single-phase AC-3         110V         kW         0.5           220/230V         kW         1.5         380/440V         kW         2           Three-phase AC23A         220/230V         kW         4         380/440V         kW         7.5           Single-phase AC23A         110V         kW         7.5         380/440V         kW         2           Three-phase AC23A         110V         kW         2         380/440V         kW         2           Single-phase AC23A         110V         kW         0.75         220/230V         kW         2           Single-phase AC23A         110V         kW         0.75         220/230V         kW         2           Single-phase AC23A         110V         kW         2         380/440V         kW         2           Rated operational current in DC         DC21A         2.5         380/440V         kW         2.5						
380/440V         kW         5           Single-phase AC-3         110V         kW         0.5           220/230V         kW         1.5         380/440V         kW         2           Three-phase AC23A         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         380/440V         kW         2.5	Three-phase AC-3	000/000)/	1.3.47	0		
Single-phase AC-3         110V         kW         0.5           220/230V         kW         1.5         380/440V         kW         2           Three-phase AC23A         220/230V         kW         4         380/440V         kW         7.5           Single-phase AC23A         110V         kW         0.75         220/230V         kW         2           According         110V         kW         0.75         220/230V         kW         2           Single-phase AC23A         110V         kW         0.75         220/230V         kW         2           Rated operational current in DC         DC21A         DC21A         20/21A         20/210V         100V         100V						
110V       kW       0.5         220/230V       kW       1.5         380/440V       kW       2         Three-phase AC23A       220/230V       kW       4         380/440V       kW       7.5         Single-phase AC23A       110V       kW       0.75         220/230V       kW       2       2         Single-phase AC23A       110V       kW       0.75         220/230V       kW       2       380/440V       kW       2         Rated operational current in DC       DC21A       U       U       U       U	Single phase AC 2	360/440V	KVV	5		
220/230V       kW       1.5         380/440V       kW       2         Three-phase AC23A       220/230V       kW       4         380/440V       kW       7.5         Single-phase AC23A       110V       kW       0.75         220/230V       kW       2       2         Access AC23A       110V       kW       0.75         Single-phase AC23A       110V       kW       2         Access AC23A       110V       kW       2         Single-phase AC23A       220/230V       kW       2         Access AC23A       2       380/440V       kW       2	Single-phase AC-3	110\/	k\//	0.5		
380/440V         kW         2           Three-phase AC23A         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 current in DC DC21A         DC21A         U <td< td=""><td></td><td></td><td></td><td></td></td<>						
Three-phase AC23A         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 current in DC         DC21A         DC21A						
220/230V         kW         4           380/440V         kW         7.5           Single-phase AC23A         110V         kW         0.75           220/230V         kW         2         380/440V         kW         2           Rated operational current in DC         DC21A         DC21A         Image: Content in DC         Image: C	Three-phase AC23A					
380/440V         kW         7.5           Single-phase AC23A         110V         kW         0.75           220/230V         kW         2           380/440V         kW         2.5		220/230V	kW	4		
110V       kW       0.75         220/230V       kW       2         380/440V       kW       2.5         Rated operational current in DC       DC21A       DC21A						
110V       kW       0.75         220/230V       kW       2         380/440V       kW       2.5         Rated operational current in DC       DC21A       DC21A	Single-phase AC23A					
380/440V     kW     2.5       Rated operational current in DC     DC21A		110V	kW	0.75		
Rated operational current in DC DC21A			kW			
DC21A		380/440V	kW	2.5		
	Rated operational current in DC					
48V A 20	DC21A					
		48V	A	20		

GF2020U

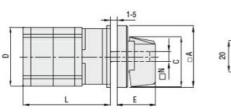


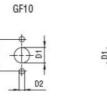
**GF2020U** ROTARY CAM SWITCH GF SERIES, DAHLANDER MOTOR 2-SPEED REVERSING SWITCH, 20A, FOR FRONT MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

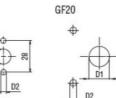
		60V	А	20
		110V	А	4
		220V	А	0.7
		440V	А	0.2
	DC13			•
		24V	А	6
		48V	A	6
		60V	A	3
		110V	A	1
		220V	A	0.4
		440V	A	0.15
Power dissipation		1101	W	0.8
Mechanical features				0.0
Terminals screw				M3
Tightening torque for t	erminals may		Nm	0.5
Conductor size			INIT	0.0
Conductor size				
	AWG - Rigid 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			
	<b>.</b> .	240V	HP	1
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-25
		max	°C	+55
	Storage temperature	Παλ	<u> </u>	
		min	°C	-40
		max	°C	-40 +70
Resistance & Protecti	on	IIIdX	U	τιυ 
Frontal IP degree				IP40
Terminals IP degree				IP20
Dimensions				



### **GF2020U** ROTARY CAM SWITCH GF SERIES, DAHLANDER MOTOR 2-SPEED REVERSING SWITCH, 20A, FOR FRONT MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM



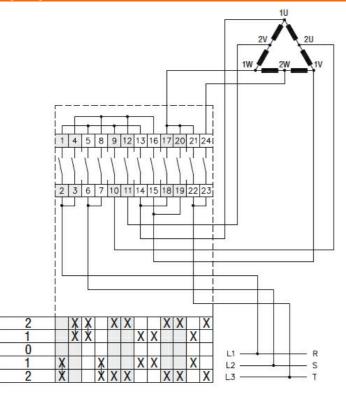




Drillings for 4 screws fixing (4V version).

Dimensions					L Number of elements															
Series	□A	С	D	ØD1	ØD2	Ε	□K	Ν	1	2	3	4	5	6	7	8	9	10	11	12
GF10	30	24	29	9	3.2	18.5	-	Ø5	40	52	64	76	88	100	112	124	-	-	-	-
GF20	48	39.5	36	12	5	26.5	36	□6	44	57.5	71	84.5	98	111.5	125	138.5	152	165.5	179	192.5

#### 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	
	UL60947-4-1	
Certificates		
	cULus	
	EAC	
ETIM classification		
		EC001029 -
ETIM 8.0		Selector switch, complete