

Product designation			Rotary cam
Product type designation			switches GX16
General characteristics			GATO
Switching diagram			53 - Changeover switch 3 poles - 2 speed motor starting with separate windings
N° of elements			3
Mounting form			U11 - Front mounting with black handle without front plate for hole diam. 22mm fixing
Contact characteristics			
Rated insulation voltage Ui	IEC/EN UL/CSA	V V	690 600
Rated impulse withstand voltage Uimp		kV	6
Conventional free air thermal current Ith	IEC/EN UL/CSA	A A	16 12
Rated operational voltage	01/05/	 V	440
Rated operational impulse voltage		kV	4
Maximum fuse size for short-circuit protection In (gG)			·
	10kA 15kA 25kA	A A A	16 16 16
Rated short time current Icw	1s	kA	250
Conductivity			10/5 mA/V
Operational current le IEC/EN AC1/AC21A			10
AC15		A	16
ACTS	110V 220/230V	A A	10 8
	380/400V 660/690V	A	4 1.5
Rated operational power in AC	880/8907	A	1.5
Three-phase AC-3	220/2201/		2.5
	220/230V 380/440V	kW kW	3.5 4.5
	500/690V	kW	5.5
Single-phase AC-3			
<b>~</b> .	110V	kW	0.55
	220/230V	kW	1.5
	380/440V	kW	2.2
Three-phase AC23A	220/230V 380/440V	kW kW	3.7 6.5
	550,7740	IX V V	0.0

GX1653U11



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         Max       mm²       2.5         Max       mm²       2.5         Max       mm²       2.5         Mechanical life       cycles       1X10°					
110V         KW         0.76           220/230V         KW         3           Rated operational current in DC         DC21A         48V         A         16           60V         A         4         220/230V         KW         3           Construction of the series)         48V         A         16         60/V         A         4           220/2         A         0.6         440V         A         4         220/V         A         0.6           DC23A (poles in series)         24V         A         16 (1)         48V         A         16 (2)         60/V         A         16 (2)         60/V         A         16 (3)         10/V         A         10 (3)         22/V         A         16 (3)         10/V         A         16         44/V         A         16         44/V         A         16         44/V         A         16         44/V         A         10/V         A         10/V <td></td> <td></td> <td>500/690V</td> <td>kW</td> <td>7.5</td>			500/690V	kW	7.5
220/230V         kW         1.8           380/400V         kW         3           Rated operational current in DC           DC21A         48V         A         16           60V         A         4         220V         A         0.6           110V         A         4         220V         A         0.6           2202         A         16 (1)         48V         A         16 (2)           0C23A (poles in series)         24V         A         16 (2)         60V         A         16 (2)           0C13         24V         A         16 (2)         60V         A         16 (3)           0C13         24V         A         16         48V         A         14           60V         A         10 (3)         110V         A         1           220V         A         0.1         220V         A         0.1           Mechanical features         W         0.6         Mechanical features         Mechanical features           Terminals screw         3M         Tightening torque for terminals max         Nm         0.5           Conductor size (IEC) - Flexible cable         min< AWG		Single-phase AC23A			
380/440V         kW         3           Rated operational current in DC         0         0           DC21A         48V         A         16           48V         A         16         100V         A         4           220V         A         0.6         440V         A         0.25           DC23A (poles in series)         24V         A         16 (1)         48V         A         16 (2)           0C23A (poles in series)         24V         A         16 (3)         100V         A         10 (3)           220V         A         16 (3)         100V         A         10 (3)         220V         A         14           60V         A         10         13         24V         A         16           0C13         24V         A         16         48V         A         16           60V         A         10         110V         A         1         20V         A         0.4           48V         A         16         30M         10         10         1         10         1         10         1         10         1         10         1         1         10         1			110V	kW	0.75
Rated operational current in DC         DC21A         48V         A         16           60V         A         16         60V         A         4           220V         A         0.6         440V         A         0.25           DC23A (poles in series)         24V         A         16 (1)         48V         A         16 (2)           0000         A         16 (2)         60V         A         16 (3)         110V         A         10 (3)           110V         A         10 (3)         220V         A         7 (4)         0.10         100V         A         1           DC13         24V         A         16         48V         A         14           60V         A         10 (3)         10V         A         1           220V         A         0.4         440V         A         0.5           Power dissipation         W         0.6         Maximum         0.5           Conductor size         MG - Rigid cable         Mm         0.5         Maximum         2.5           Conductor size (IEC) - Flexible cable         min         AWG 20         Max         Mm         2.5           Motor power for dire			220/230V	kW	1.8
Rated operational current in DC         DC21A         48V         A         16           60V         A         16         60V         A         4           220V         A         0.6         440V         A         0.25           DC23A (poles in series)         24V         A         16 (1)         48V         A         16 (2)           0000         A         16 (2)         60V         A         16 (3)         110V         A         10 (3)           110V         A         10 (3)         220V         A         7 (4)         0.10         100V         A         1           DC13         24V         A         16         48V         A         14           60V         A         10 (3)         10V         A         1           220V         A         0.4         440V         A         0.5           Power dissipation         W         0.6         Maximum         0.5           Conductor size         MG - Rigid cable         Mm         0.5         Maximum         2.5           Conductor size (IEC) - Flexible cable         min         AWG 20         Max         Mm         2.5           Motor power for dire			380/440V	kW	3
DC21A         48V         A         16           600         A         16           1100         A         4           2200         A         0.6           440V         A         0.25           DC23A (poles in series)         24V         A         16 (1)           48V         A         16 (2)         60V         A         16 (3)           110V         A         10 (3)         220V         A         7 (4)           DC13         24V         A         16         48V         A         14           60V         A         10 (3)         220V         A         0.4           48V         A         14         60V         A         16           48V         A         14         60V         A         10           110V         A         1         220V         A         0.4           400V         A         0.5         0.6         48V         A         16           100110V         A         1         220V         A         0.4         400V         12         12           Conductor size         MWG - Rigid cable         min	Rated operational c	urrent in DC			
48v         A         16           60v         A         16           110v         A         4           220v         A         0.6           440v         A         0.25           DC23A (poles in series)         24v         A         16 (1)           48v         A         16 (2)         60v         A         16 (2)           60v         A         16 (3)         110v         A         10 (3)           220v         A         7 (4)         60v         A         16           DC13         24v         A         16         48v         A         16           48v         A         16         30         10v         A         1           DC13         24v         A         16         48v         A         14           60v         A         10         100         10         10v         A         1           220v         A         0.4         440v         A         0.5         5           Conductor size         MK         WG         12         MK         12           AWG - Rigid cable         min         MWG         12					
60V         A         16           110V         A         4           220V         A         0.6           440V         A         0.25           DC23A (poles in series)         24V         A         16 (1)           48V         A         16 (2)         60V           60V         A         16 (3)         110V           10V         A         10 (3)         220V         A         7 (4)           DC13         24V         A         16 (3)         110V         A         10 (3)           DC13         24V         A         16 (3)         10V         A         10           Mexical Power dissipation         A         10         110V         A         10           Power dissipation         W         A         0.4         40V         A         0.5           Conductor size         Mm         0.5         0.5         0.5         0.5           Conductor size         MWG - Rigid cable         min         AWG (20         Max         MWG (12           AWG - Flexible cable         min         MWG (20         Max         mm² 2.5         0.5           Conductor size (IEC) - Flexible cable		20211	48V	Δ	16
110V         A         4           420V         A         0.6           440V         A         0.25           DC23A (poles in series)         24V         A         16 (1)           48V         A         16 (2)         60V         A         16 (3)           110V         A         10 (3)         220V         A         16 (3)           110V         A         10 (3)         220V         A         16           DC13         24V         A         16         10           DC14         60V         A         10         30           220V         A         10         30         10         10           10V         A         1         220V         A         0.4           48V         A         1         220V         A         0.4           440V         A         0.5         30         110           Tightering torque for terminals max         Nm         0.5         30         110           Conductor size         AWG - Rigid cable         min         AWG         20         Max           AWG - Flexible cable         min         Max         2.5         12					
220V         A         0.6           440V         A         0.25           DC23A (poles in series)         24V         A         16 (1)           48V         A         16 (2)         60V         A         16 (3)           110V         A         10 (3)         220V         A         7 (4)           DC13         24V         A         16         (3)         110V         A         10 (3)           DC13         24V         A         16         (440V)         A         16           Methods         A         10 (3)         220V         A         14           60V         A         10         11         220V         A         0.4           440V         A         0.4         440V         A         0.4           Motor A         10         110V         A         0.5           Conductor size         3M         3M         3M         3M           Tightening torque for terminats max         Nm         0.5         3M         3M           Conductor size         MWG - Rigid cable         min         AWG         12           Motor Size (IEC) - Flexible cable         min         mm²					
440v         A         0.25           DC23A (poles in series)         24v         A         16 (1)           48v         A         16 (2)         60v         A         16 (3)           100v         A         10 (3)         220v         A         7 (4)           DC13         24v         A         16         48v         A         14           60v         A         16         10         10         10         10         10         10         10         110v         A         10         10         10         110v         A         10					
DC23A (poles in series)         24V         A         16 (1)           48V         A         16 (2)         60V         A         16 (3)           110V         A         10 (3)         220V         A         7 (4)           DC13         24V         A         16         48V         A         16           DC13         24V         A         16         48V         A         14           60V         A         10         110V         A         0.4         440V         A         0.15           Power dissipation         W         0.6         Mechanical features         3M         Tightening torque for terminals max         Nm         0.5         Mechanical fia         0.5         Mechanical fia         20         Max         AWG         12           Conductor size         AWG - Flexible cable         min         AWG         12         Max         MWG         12         Max         MWG         12         Max         Max         14         14         14         14<					
24V         A         16 (1)           48V         A         16 (2)           60V         A         10 (3)           220V         A         7 (4)           DC13         24V         A         16           000         A         10 (3)         220V         A         7 (4)           DC13         24V         A         16         48V         A         14           60V         A         10         110V         A         1         220V         A         0.4           Mechanical features         W         0.6         Mechanical features         W         0.6           Terminals screw         3M         Tightening torque for terminals max         Nm         0.5         Conductor size           AWG - Rigid cable         Min         AWG         20         Max         AWG         12           AWG - Flexible cable         Min         Min         2.5         Conductor size (IEC) - Flexible cable         Min         Mmr         2.5           Conductor size (IEC) - Rigid cable         Min         Min         2.5         Max         Min         2.5           Conductor size (IEC) - Rigid cable         Min         Min         1.5			440V	A	0.25
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		DC23A (poles in series)	<b>6</b> (1) (		
60V         A         16 (3)           110V         A         10 (3)           22V         A         7 (4)           DC13         24V         A         16           48V         A         14         60V         A         10           110V         A         11         60V         A         10           110V         A         1         20V         A         0.15           Power dissipation         W         0.6         Mechanical features         3M           Terminals screw         3M         12         Mechanical features         3M           Tightening torque for terminals max         Nm         0.5         Mechanical features         3M           Conductor size         AWG - Rigid cable         3M         12         Max         AWG         12           AWG - Flexible cable         min         AWG         20         Max         AWG         12           Conductor size (IEC) - Flexible cable         min         mm²         0.5         12           Conductor size (IEC) - Rigid cable         min         mm²         0.5         12           Max         mm²         2.5         12         14					
Image: book of the second se					
DC13         220V         A         7 (4)           DC13         24V         A         16           48V         A         10         100           10V         A         1         220V         A         0.4           60V         A         10         100 </td <td></td> <td></td> <td></td> <td>A</td> <td>16 (3)</td>				A	16 (3)
DC13         24V         A         16           48V         A         14         60V         A         10           110V         A         1         220V         A         0.4           440V         A         0.15         0.4         440V         A         0.15           Power dissipation         W         0.6         0.6         0.6         0.6         0.6           Mechanical features         3M         11         0.5         0.5         0.6         0.5         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.6         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.5         0.6			110V	А	10 (3)
DC13         24V         A         16           48V         A         14           60V         A         10           110V         A         1           220V         A         0.4           440V         A         0.15           Power dissipation         W         0.6           Mechanical features         W         0.5           Terminals screw         3M         11           Tightening torque for terminals max         Nm         0.5           Conductor size         Max         AVVG         12           AWG - Rigid cable         min         AWG         20           Max         AVVG         12         AWG         12           AWG - Flexible cable         min         MWG         20           Max         MWG         12         Conductor size (IEC) - Flexible cable         min         mm²         2.5           Conductor size (IEC) - Rigid cable         min         mm²         2.5         12           Mechanical life         cycles         1.5         14         1.5           Uterchnical dat         ixture         ixture         1.5         1.5           Motor power for direct			220V	А	7 (4)
24V         A         16           48V         A         14           60V         A         10           110V         A         1           220V         A         0.4           440V         A         0.15           Power dissipation         W         0.6           Mechanical features         W         0.6           Terminals screw         3M         1           Conductor size         Nm         0.5         0.5           Conductor size         Max         AWG         12           AWG - Rigid cable         min         AWG         12           AWG - Flexible cable         min         AWG         12           Conductor size (IEC) - Flexible cable         min         mm²         0.5           Max         mm²         2.5         12           Conductor size (IEC) - Rigid cable         min         mm²         2.5           Mechanical life         cycles         1X10*         14           UL technical data         cycles         1X10*         15           Motor power for direct-on-line control         for three-phase motor         120V         HP         3           480V		DC13			
48V         A         14           60V         A         10           110V         A         1           220V         A         0.4           440V         A         0.15           Power dissipation         W         0.6           Mechanical features			24\/	А	16
60V         A         10           110V         A         1           220V         A         0.4           440V         A         0.15           Power dissipation         W         0.6           Mechanical features         3M           Tightening torque for terminals max         Nm         0.5           Conductor size         AWG - Rigid cable					
110V         A         1           220V         A         0.4           440V         A         0.15           Power dissipation         W         0.6           Mechanical features         3M           Tightening torque for terminals max         Nm         0.5           Conductor size         AWG - Rigid cable         Max           AWG - Flexible cable         min         AWG         20           Max         AWG         12         AWG - Flexible cable         min         AWG         12           Conductor size (IEC) - Flexible cable         min         mm²         0.5         Max         MWG         12           Conductor size (IEC) - Rigid cable         min         mm²         0.5         Max         mm²         2.5           Mechanical life         cycles         1x10°         UL technical data         use         use         1.5           Motor power for direct-on-line control         for three-phase motor         120V         HP         1.5           240V         HP         3         480V         HP         5           for single-phase motor         120V         HP         5         5           for single-phase motor         1					
220V         A         0.4           440V         A         0.15           Power dissipation         W         0.6           Mechanical features         3M           Terminals screw         3M           Tightening torque for terminals max         Nm         0.5           Conductor size         AWG - Rigid cable         min         AWG         20           Max         AWG         12         AWG         12           AWG - Flexible cable         min         AWG         20           Max         AWG         12         20           AWG - Flexible cable         min         mm²         2.5           Conductor size (IEC) - Flexible cable         min         mm²         2.5           Conductor size (IEC) - Flexible cable         min         mm²         2.5           Conductor size (IEC) - Rigid cable         min         mm²         2.5           Mechanical life         cycles         1X10°         12           Ut technical data         response motor         120V         HP         3.5           Max         mm²         2.5         5         5           Conductor size (IEC) - Rigid cable         response         120V <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
440V         A         0.15           Power dissipation         W         0.6           Mechanical features         3M           Terminals screw         3M           Tightening torque for terminals max         Nm         0.5           Conductor size         Min         AWG - Rigid cable         min         AWG         12           AWG - Rigid cable         Max         AWG         12         AWG - Rigid cable         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         2.5         12         12           Mechanical life         cycles         1X10°         12         12         12         12           Motor power for direct-on-line control         for three-phase motor         120V         HP         1.5         2.5           Motor power for direct-on-line control         for single-phase motor         120V         HP         3         480V         HP         5         600V         HP         5					
Power dissipation         W         0.6           Mechanical features         3M           Terminals screw         3M           Tightening torque for terminals max         Nm         0.5           Conductor size         AWG - Rigid cable         min         AWG         20           AWG - Flexible cable         min         AWG         20           AWG - Flexible cable         min         AWG         20           Conductor size (IEC) - Flexible cable         min         mm²         0.5           Conductor size (IEC) - Rigid cable         min         mm²         0.5           Max         mm²         0.5         Max         mm²         0.5           Conductor size (IEC) - Rigid cable         min         mm²         0.5         Max         mm²         2.5           Conductor size (IEC) - Rigid cable         min         mm²         0.5         Max         mm²         2.5           Motor power for direct-on-line control for three-phase motor         for three-phase motor         120V         HP         1.5         240V         HP         3         480V         HP         5         600V         HP         5         5         5         5         5         5         5					
Mechanical features       3M         Terminals screw       3M         Tightening torque for terminals max       Nm       0.5         Conductor size       AWG - Rigid cable       min       AWG       20         AWG - Rigid cable       Min       AWG       12         AWG - Flexible cable       min       AWG       20         Max       AWG       12         Conductor size (IEC) - Flexible cable       min       mm²       0.5         Max       mm²       0.5       Max       mm²       0.5         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°       U       U       technical data       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       5       5         for single-phase motor       120V       HP       0.75       5			440V		
Terminals screw     3M       Tightening torque for terminals max     Nm     0.5       Conductor size     AWG - Rigid cable     min     AWG     20       Max     AWG     12       AWG - Flexible 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     0.5     Max     mm²     2.5       Conductor size (IEC) - Rigid cable     min     mm²     2.5       Mechanical life     cycles     1X10*       UL technical data     utechnical data     120V       Motor power for direct-on-line control     for three-phase motor     120V     HP     1.5       240V     HP     3     480V     HP     5       600V     HP     5     500V     HP     5       for single-phase motor     120V     HP     0.75				W	0.6
Tightening torque for terminals max       Nm       0.5         Conductor size       AWG - Rigid cable       min       AWG       20         AWG - Flexible cable       Max       AWG       12         AWG - Flexible cable       min       AWG       20         Max       AWG       12         Conductor size (IEC) - Flexible cable       min       mm²       0.5         Max       mm²       0.5         Max       mm²       2.5         Conductor size (IEC) - Rigid cable       min       mm²       0.5         Max       mm²       2.5       5         Conductor size (IEC) - Rigid cable       min       mm²       0.5         Max       mm²       2.5       5         Mechanical life       cycles       1X10°         UL technical data       120V       HP       1.5         Motor power for direct-on-line control       for three-phase motor       120V       HP       3         480V       HP       5       600V       HP       5         600V       HP       5       600V       HP       5					
Conductor size           AWG - Rigid cable         min         AWG         20           Max         AWG         12           AWG - Flexible 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         0.5           Conductor size (IEC) - Rigid cable         min         mm²         2.5           Mechanical life         cycles         1X10°         1X10°           UL technical data         rm²         2.5         1X10°           Motor power for direct-on-line control for three-phase motor         120V         HP         1.5           240V         HP         3         480V         HP         5           600V         HP         5         600V         HP         5           for single-phase motor         120V         HP         0.75					
AWG - Rigid cable         min         AWG         20           Max         AWG         12           AWG - Flexible cable         min         AWG         20           Max         AWG         12         12           Conductor size (IEC) - Flexible cable         min         mm²         0.5           Max         mm²         0.5         Max         mm²         2.5           Conductor size (IEC) - Rigid cable         min         mm²         2.5           Mechanical life         cycles         1X10 <sup>6</sup> UL technical data         cycles         1X10 <sup>6</sup> Motor power for direct-on-line control         120V         HP         1.5           240V         HP         3         480V         HP         5           for single-phase motor         120V         HP         5         600V         HP         5	Tightening torque for	or terminals max		Nm	0.5
min       AWG       20         AWG - Flexible cable       min       AWG       12         AWG - Flexible cable       min       AWG       20         Max       AWG       12       12         Conductor size (IEC) - Flexible cable       min       mm²       0.5         Max       mm²       2.5       12         Conductor size (IEC) - Rigid cable       min       mm²       2.5         Conductor size (IEC) - Rigid cable       min       mm²       2.5         Mechanical life       cycles       1X10°         UL technical data       region       120V       HP       1.5         Motor power for direct-on-line control for three-phase motor       120V       HP       1.5         240V       HP       3       480V       HP       5         600V       HP       5       600V       HP       5         for single-phase motor       120V       HP       0.75	Conductor size				
MaxAWG12AWG - Flexible cableminAWG20MaxAWG12Conductor size (IEC) - Flexible cableminmm²0.5Maxmm²2.5Conductor size (IEC) - Rigid cableminmm²0.5Maxmm²2.50.5Conductor size (IEC) - Rigid cableminmm²0.5Maxmm²2.50.5Mechanical lifecycles1X10°UL technical datatureMotor power for direct-on-line control for three-phase motor120VHP1.5240VHP3480VHP5600VHP5600VHP5for single-phase motor120VHP0.75		AWG - Rigid cable			
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         Mechanical life       cycles       1X10 <sup>6</sup> UL technical data       uterchnical data       uterchnical data         Motor power for direct-on-line control       120V       HP       1.5         240V       HP       3       480V       HP       5         600V       HP       5       600V       HP       5         for single-phase motor       120V       HP       0.75		-	min	AWG	20
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         Mechanical life       cycles       1X10 <sup>6</sup> UL technical data       uterchnical data       uterchnical data         Motor power for direct-on-line control       120V       HP       1.5         240V       HP       3       480V       HP       5         600V       HP       5       600V       HP       5         for single-phase motor       120V       HP       0.75			111111	/	
min MaxAWG AWG20 MaxConductor size (IEC) - Flexible cablemin mm²0.5 MaxMaxmm²2.5Conductor size (IEC) - Rigid cablemin mm²0.5 MaxMaxmm²2.5Mechanical lifecycles1X10°UL technical datacycles1X10°Motor power for direct-on-line control for three-phase motor120VHP1.5 240V120VHP3 480V480VHP5 600Vfor single-phase motor120VHP5120VHP5600VHP5for single-phase motor120VHP5					
MaxAWG12Conductor size (IEC) - Flexible cableminmm²0.5Maxmm²2.5Conductor size (IEC) - Rigid cableminmm²0.5Maxmm²2.5Mechanical lifecycles1X10°UL technical datatuttortuttorMotor power for direct-on-line control for three-phase motor120VHP1.5240VHP3480VHP5600VHP5600VHP5for single-phase motor120VHP0.75		AWG - Elexible cable			
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°         UL technical data       util technical data       util 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       for single-phase motor       120V       HP       0.75		AWG - Flexible cable	Max	AWG	12
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°           UL technical data         ultechnical data         ultechnical 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         600V         HP         5           for single-phase motor         120V         HP         0.75		AWG - Flexible cable	Max min	AWG AWG	12 20
Maxmm²2.5Conductor size (IEC) - Rigid cableminmm²0.5Maxmm²2.5Mechanical lifecycles1X10°UL technical dataMotor power for direct-on-line control for three-phase motor120VHP1.5240VHP3480VHP5600VHP5600VHP5for single-phase motor			Max min	AWG AWG	12 20
Conductor size (IEC) - Rigid cable       min       mm²       0.5         Max       mm²       2.5         Mechanical life       cycles       1X10°         UL technical data       understand       understand         Motor power for direct-on-line control for three-phase motor       120V       HP       1.5         240V       HP       3       480V       HP       5         600V       HP       5       600V       HP       5         for single-phase motor       120V       HP       0.75			Max min Max	AWG AWG AWG	12 20 12
minmm²0.5 mm²0.5 mm²Mechanical lifecycles1X10°UL technical dataMotor power for direct-on-line control for three-phase motor120VHP1.5 240V120VHP3 480V480VHP5 5 600V5for single-phase motorI20VHP0.75			Max min Max min	AWG AWG AWG mm²	12 20 12 0.5
Maxmm²2.5Mechanical lifecycles1X106UL technical dataMotor power for direct-on-line control for three-phase motor120VHP1.5240VHP3480VHP3480VHP5600VHP5for single-phase motor120VHP0.75		Conductor size (IEC) - Flexible cable	Max min Max min	AWG AWG AWG mm²	12 20 12 0.5
Mechanical life cycles 1X10 <sup>6</sup> UL technical data Motor power for direct-on-line control for three-phase motor $ \begin{array}{ccccccccccccccccccccccccccccccccccc$		Conductor size (IEC) - Flexible cable	Max min Max min Max	AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup>	12 20 12 0.5 2.5
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		Conductor size (IEC) - Flexible cable	Max min Max min Max min	AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup>	12 20 12 0.5 2.5 0.5
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		Conductor size (IEC) - Flexible cable	Max min Max min Max min	AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup>	12 20 12 0.5 2.5 0.5
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	Mechanical life	Conductor size (IEC) - Flexible cable	Max min Max min Max min	AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup>	12 20 12 0.5 2.5 0.5 2.5
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	Mechanical life UL technical data	Conductor size (IEC) - Flexible cable	Max min Max min Max min	AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup>	12 20 12 0.5 2.5 0.5 2.5
120V       HP       1.5         240V       HP       3         480V       HP       5         600V       HP       5         for single-phase motor         120V       HP       0.75	UL technical data	Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable	Max min Max min Max min	AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup>	12 20 12 0.5 2.5 0.5 2.5
240V       HP       3         480V       HP       5         600V       HP       5         for single-phase motor       120V       HP       0.75	UL technical data	Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable ect-on-line control	Max min Max min Max min	AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup>	12 20 12 0.5 2.5 0.5 2.5
480V         HP         5           600V         HP         5           for single-phase motor         120V         HP         0.75	UL technical data	Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable ect-on-line control	Max min Max min Max min Max	AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> cycles	12 20 12 0.5 2.5 0.5 2.5 1X10 <sup>6</sup>
600V HP 5 for single-phase motor 120V HP 0.75	UL technical data	Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable ect-on-line control	Max min Max min Max 120V	AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> cycles	12 20 12 0.5 2.5 0.5 2.5 1X10 <sup>6</sup>
for single-phase motor 120V HP 0.75	UL technical data	Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable ect-on-line control	Max min Max min Max Max 120V 240V	AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> cycles	12 20 12 0.5 2.5 0.5 2.5 1X10 <sup>6</sup>
120V HP 0.75	UL technical data	Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable ect-on-line control	Max min Max min Max min Max 120V 240V 480V	AWG AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> cycles	12 20 12 0.5 2.5 0.5 2.5 1X10° 1.5 3 5
	UL technical data	Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable ect-on-line control for three-phase motor	Max min Max min Max min Max 120V 240V 480V	AWG AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> cycles	12 20 12 0.5 2.5 0.5 2.5 1X10° 1.5 3 5
240V HP 1	UL technical data	Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable ect-on-line control for three-phase motor	Max min Max min Max min Max 120V 240V 480V 600V	AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> cycles	12 20 12 0.5 2.5 0.5 2.5 1X10 <sup>6</sup> 1.5 3 5 5 5
	UL technical data	Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable ect-on-line control for three-phase motor	Max min Max min Max min Max 120V 240V 480V 600V	AWG AWG AWG mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup> cycles	12 20 12 0.5 2.5 0.5 2.5 1X10 <sup>6</sup> 1.5 3 5 5 5

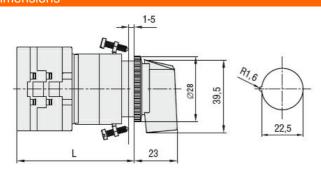
Ambient conditions

GX1653U11



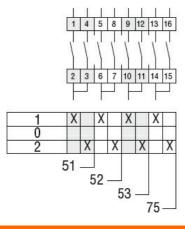
#### Temperature

Operating temperature				
	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	L			
Series	1	2	3.	8
GX16	54	62.5	71	147.5
GX20	54	62.5	71	147.5

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

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The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



ETIM 8.0

EC001029 -Selector switch, complete