Lovato electric

ENERGY AND AUTOMATION

GL... SERIES SWITCH DISCONNECTOR DATASHEET

Order code	IEC conven-tional free air thermal current Ith AC21A (≤690V)	IEC rated operational current Ie AC22A (≤690V) AC23A (≤415V)	Qty per pkg	Wt
	[A]	[A]	n°	[kg]
Supplied without handle. Complete the changeover switch by selecting shaft extension and handle for door coupling version or the handle for direct operating version (see page 11-25).				
GLC0160 C1	160	160	1	3.500
GLC0200 C1	200	200	1	3.500
GLC0250 C1	250	250	1	3.500
GLC0315 C1	315	250	1	3.500

General characteristics
- 160 to 315A AC21A versions
- 200A general purpose according to UL1008
- Screw fixing on plate
- Visible contacts.

Operational characteristics
- Rated insulation voltage Ui: 1,000V
- Rated impulse withstand Uimp: 12kV
- Mechanical life: 20,000 cycles.

Certifications and compliance
Certifications pending: cULus according to UL1008 for GLC...UL types.
Compliant with standards: IEC/EN 60947-6-1, IEC/EN 60947- 3.

ACCESORIES

Order code	Characteristics	Qty per pkg	Wt
		n°	[kg]
Auxiliary contacts.			
GLX10 01	1NC with screw terminals	1	0.011
GLX10 10EA	1EB with screw terminals	1	0.011
Neutral terminal.			
GLX3 00	For GL0160...GL0315	1	0.200
Earth/ground terminal.			
GLX3 01	For GL0160...GL0315	1	0.200
One-pole terminal covers.			
GLX8 00	3-piece set, each covers 1 pole	1	0.011
GLX8 01	4-piece set, each covers 1 pole	1	0.011
One-pole phase barrier (needed for voltages > 500V).			
GLX9 00	6-piece set, each covers 1 pole	1	0.011
GLX9 01	8-piece set, each covers 1 pole	1	0.011

Operational characteristics of auxiliary contacts GLX10...
- Conventional free air thermal current Ith: 10A
- Rated insulation voltage: 690V
- Conductivity: 5V, 1mA
- UL/CSA and IEC/EN 60947-5-1 designation: A600 Q600
- Tightening torque: 0.8Nm/7.1lb.in
- Maximum 8 contacts for GL0160...GL0315 switch disconnectors
- Maximum 4 contacts for GLC0160...GLC0315 changeover switches.

Operational characteristics of neutral and earth/ground terminals GLX3...
- Add-on only on GL0160...GL0315 switch disconnectors
- Tightening torque: 15...22Nm/132.7...194.7lbin.

Operational characteristics for terminal covers and phase barriers GLX8..., GLX9...
- Snap on mounting.

Operational characteristics for terminal clamps GLX5...
- Maximum conductor cross section: 120mm²/250kcmil
- Minimum conductor cross section: 16mm²/6AWG
- Tightening torque: 35Nm/309.7lbin.

Certifications and compliance
Certifications obtained: cULus
Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-3.

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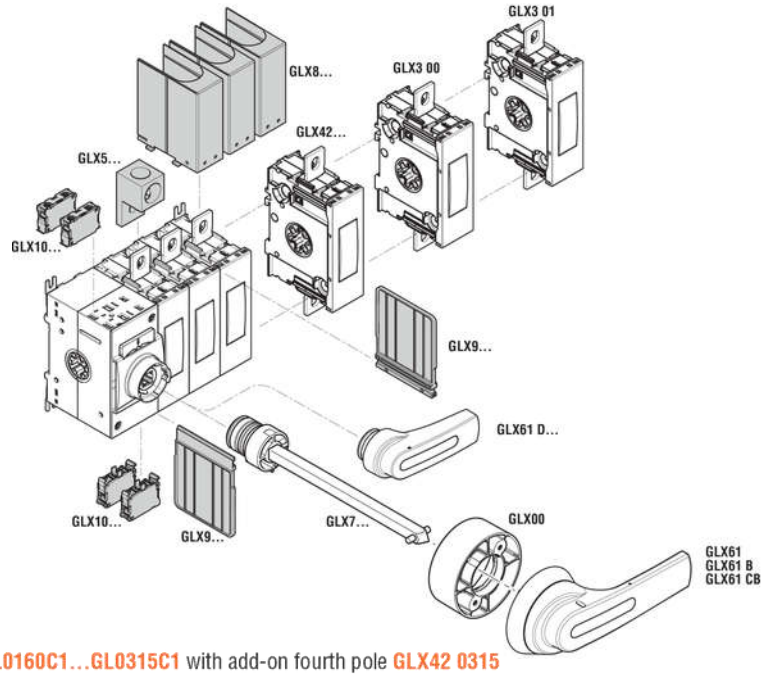
Order code	Characteristics	Qty per pkg	Wt
		n°	[kg]
Direct operating handles.			
GLX61 DB	For GL0160...GL0315 and GLC0160...GLC0315. Black	1	0.075
GLX61 D	For GL0160...GL0315. Red/yellow	1	0.075
Door coupling handles.			
GLX61	For GL0160...GL0315. Screw fixing. 125mm lever length pistol handle - defeatable (req. UL508A). Red/yellow. □10mm	1	0.200
GLX61 B	For GL0160...GL0315. Screw fixing. 125mm lever length pistol handle - defeatable (req. UL508A). Black. □10mm	1	0.200
Accessories for door coupling handles.			
GLX00	Shaft alignment ring	1	0.040
Shaft extensions for door coupling handles GLX61, GLX61 B, GLX61 CB type.			
GLX7 150 S10	150mm long. □10mm	1	0.120
GLX7 200 S10	200mm long. □10mm	1	0.155
GLX7 300 S10	300mm long. □10mm	1	0.240
GLX7 400 S10	400mm long. □10mm	1	0.280
GLX7 500 S10	500mm long. □10mm	1	0.310

Operational characteristics for direct operating handles
- Snap on mounting on switch disconnectors and changeover switches
- 1 to 3 padlocks in the Ø4...6mm.

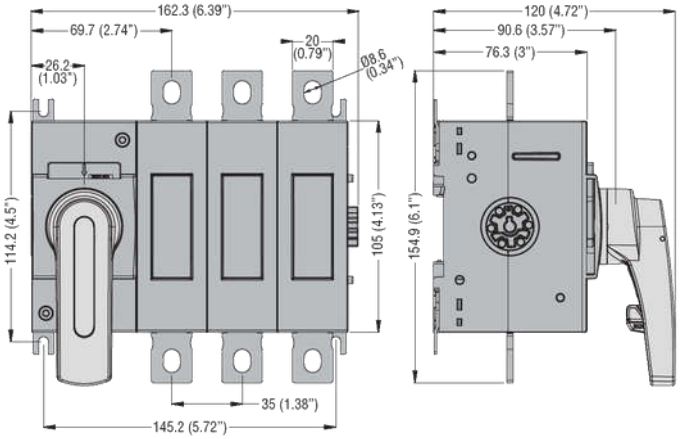
Operational characteristics for door coupling handles
- Fixing handles interaxis: 28x40mm
- 1 to 3 padlocks in the Ø4...8mm
- Tightening torque: 1.5Nm/13.3lbin
- Degree of protection: IP66 and NEMA 4X for UL.

NOTE: Types GLX61, GLX61 B, GLX61 CB are UL/CSA Type 1, 2, 3R, 12, 12K, 4, 4X external use.

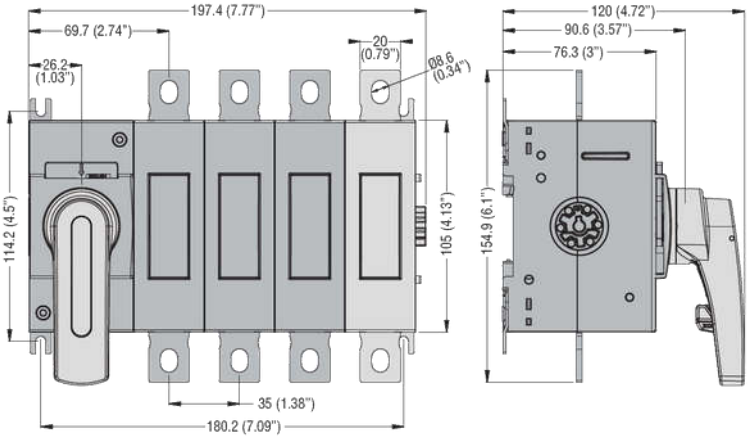
Certifications and compliance
Certifications obtained: cULus.
Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-3



GL0160C1...GL0315C1



GL0160C1...GL0315C1 with add-on fourth pole **GLX42 0315**



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GL... SERIES SWITCH DISCONNECTOR DATASHEET

TECHNICAL DATA ACCORDING TO IEC/EN 60947

TYPE		3-pole	GL0160...	GL0200... / GL0200...UL	GL0250...	GL0315...
		4-pole	GLX42 0315			
CONTACT CHARACTERISTICS						
IEC conventional free air thermal current Ith (≤40°C)		A	160	200	250	315
IEC rated insulation voltage Ui		V	1000			
IEC rated impulse withstand Uimp		kV	12			
IEC rated operational current Ie						
AC21A	400V	A	160	200	250	315
	500V	A	160	200	250	315
	690V	A	160	200	250	315
AC22A	400V	A	160	200	250	315
	500V	A	160	200	250	315
	690V	A	160	200	250	315
AC23A	400V	A	160	200	250	250
	500V	A	160	200	250	250
	690V	A	160	200	250	250
Power dissipation		W/pole	3.2	4	6.5	6.5
IEC rated operational power						
AC23A	400V	kW	90	110	140	140
	690V	kW	144	200	250	250
IEC reactive power for control of capacitors 400V		kvar	80	100	115	145
SHORT CIRCUIT PROTECTION						
Rated short-time current (1s) Icw		kA rms	8			
Conditional short-circuit current		kA rms	100			
With fuse class gG		A	160	200	250	315
Making capacity AC23A 400V		A	1600	2000	2500	2500
Breaking capacity AC23A 400V		A	1280	1600	2000	2000
Mechanical life		cycles	20000			
Terminal for busbars		mm	M8 x 25			
Tightening torque		Nm	15...22			
		lbin	132...194			
Conductor section min.		mm²	70	95	120	185
		AWG/ Kcmil	00	000	250	400
AMBIENT CONDITIONS						
Temperature	Operating	°C	-25...+55			
	Storage	°C	-40...+70			
Maximum altitude		m	3000			
Mounting position	Normal		Vertical			
	Admissible		Any			
Fixing			By screw or on 35mm DIN rail (IEC/EN 60715)			

TECHNICAL DATA ACCORDING TO UL/CSA RATINGS

TYPE		3-pole	—	GL0200...UL	—	—
		4-pole	—	GLX42 0200UL	—	—
Compliance			—	UL98 CSA C22.2 N°4	—	—
General purpose current ratings		A	—	200	—	—
Max operating voltage		V	—	600	—	—
Horsepower ratings /motor FLA current three-phase						
	240V	HP/A	—	75/192	—	—
	480V	HP/A	—	150/180	—	—
	600V	HP/A	—	200/192	—	—
Short circuit ratings		KA rms	—	200	—	—
With fuse class J		A	—	200	—	—
Terminal kit lugs			—	GLX5...	—	—
Minimum enclosure dimensions at rated current		mm	—	400 x 250 x 150	—	—