

Technical Data Sheet

Glass Reinforced Polyester (GRP) Hinged Door Switchgear

General Description

Our range of 'hinged door' Light Grey (RAL 7035) Glass Fibre Reinforced Polyester (GRP) switch disconnectors are supplied in IP65 enclosures, generously sized to avoid the need for cable extension boxes. All switches are mounted on removable galvanised chassis plates.

The switch disconnectors have a padlockable handle which allows for the insertion of up to three padlocks in the 'Off' position thus preventing the isolator being switched to the 'On' position. The door interlock handle can be defeated to enable emergency opening or for testing purposes.

Fuse combination units are available on request.

Features

- Suitable for use in extremely harsh and demanding environments
- High impact resistance- IK10 compliant
- UV tested in accordance with ISO4892
- Chemical resistant
- Fire resistance to 960°C
- Tested in accordance with IEC/EN60947-3

'N' = switched neutral | 'NL' = Unswitched neutral (100% rated)

Switch-Disconnectors (O-I)							
Image	Rating	Format	Cat. No.	IP Rating	Encl. Size	Encl. Material	Encl. Colour
	32A	3P+N	EDGP00323N	IP65	1	Glass Fibre Reinforced Polyester	Light Grey RAL 7035
		3P+NL	EDGP00323NL				
	63A	3P+N	EDGP00633N	IP65	1		
		3P+NL	EDGP00633NL				
	80A	3P+N	EDGP00803N	IP65	1		
		3P+NL	EDGP00803NL				
	100A	3P+N	EDGP01003N	IP65	2		
		3P+NL	EDGP01003NL				
	125A	3P+N	EDGP01253N	IP65	2		
		3P+NL	EDGP01253NL				
	160A	3P+N	EDGP01603N	IP65	3		
		3P+NL	EDGP01603NL				
	200A	3P+N	EDGP02003N	IP65	4		
		3P+NL	EDGP02003NL				
	250A	3P+N	EDGP02503N	IP65	5		
		3P+NL	EDGP02503NL				
	400A	3P+N	EDGP04003N	IP65	6		
		3P+NL	EDGP04003NL				
	630A	3P+N	EDGP06303N	IP65	7		
		3P+NL	EDGP06303NL				
800A	3P+N	EDGP08003N	IP65	7			
	3P+NL	EDGP08003NL					
1000A	3P+N	EDGP10003N	IP65	7			
	3P+NL	EDGP10003NL					

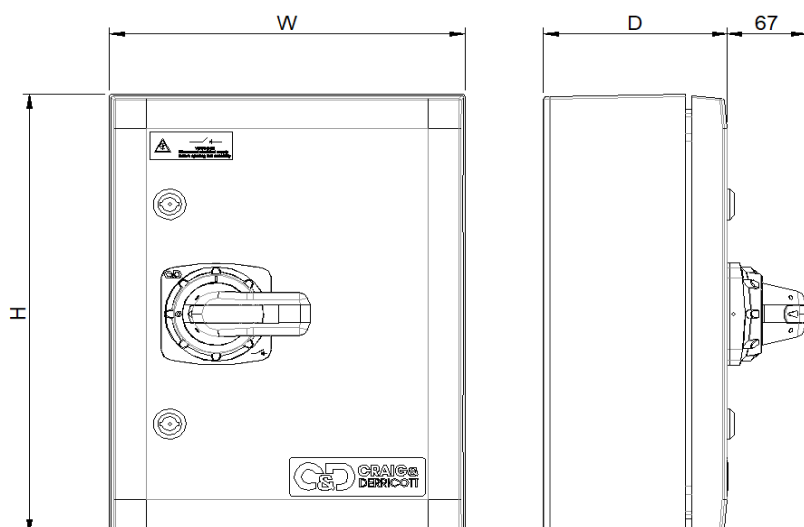
Accessories

Add-on auxiliary blocks are available for all hinged door products. All auxiliaries are supplied as 1 N/O+1 N/C pair. All N/O auxiliary contacts are early break with respect to the main poles when switching from 'On' to 'Off'.

Terminal protection is provided on all items for live incoming terminals; spare terminal covers are available for replacement or extending the protection to the outgoing terminals.

Auxiliary Contacts		
Image	Description	Cat. No.
 A B C	Auxiliary Contact for 32A- 200A Switch-Disconnectors (Type A)	SAUXCO
	Auxiliary Contact for 63A- 160A Fuse Combination (Type B)	SAUXKITA
	Auxiliary Contact for 250A Switch-Disconnectors (Type C)	SAUXKITB
	Auxiliary Contact for 400A- 800A Switch-Disconnectors & 200A- 400A Fuse Combination (Type C)	SAUXKITC
	Auxiliary Contact for 1000A Switch-Disconnectors & 630A Fuse Combination Units (Type D)	SAUXKITD
Terminal Covers		
	Individual Spare Terminal Cover for 200A Switch-Disconnectors & Fuse Combination	STS1
	Individual Spare Terminal Cover for 250A- 400A Switch-Disconnectors & Fuse Combination	STS2
	Individual Spare Terminal Cover for 630A Fuse Combination	STS3
	Set of 4 Spare Terminal Cover for 630A Switch-Disconnectors	STS4

Dimensions



Encl. Size	H	W	D
1	300	250	140
2	400	300	200
3	400	400	200
4	600	400	230
5	600	500	230
6	800	600	300
7	1056	852	350

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Technical Specification

Data supplied against tests to IEC/BS EN 60947-3. * All AC21, AC22 & AC23 tests carried out at 415V

GRP Switch-Disconnectors (O-I)															
Application	Sym	Unit	Category	32	63	80	100	125	160	200	250	400	630	800	1000
Rated thermal current	I_{the}	A		32	63	80	100	125	160	200	250	400	630	720	1000
Rated insulation voltage	U_i	V		690	690	690	1000	1000	1000	1000	1000	1000	1000	1000	1000
Rated impulse voltage	U_{imp}	kV		6	6	6	8	8	8	8	12	12	12	12	8
Rated operational current (AC)	I_e	A	400V- AC21A	32	63	80	100	125	160	200	250*	400*	630*	800*	1000*
			690V- AC21A	32	63	80	100	125	160	200	250	400	630	800	1000
			400V- AC22A	-	-	-	100	125	160	200	250*	400*	630*	800*	1000*
			690V- AC22A	-	-	-	100	125	160	160	250	400	630	800	-
			400V- AC23A	29	48	56	100	112	128	128	250*	400*	630*	720*	1000
			690V- AC23A	17	33	33	-	-	-	-	250	350	350	350	-
Rated operational current (DC) (/poles in series)	I_e	A	Up to 48V- DC21A	32/1	63/1	80/1	-	-	-	-	250/2	400/2	630/1	800/1	1000/1
			220V- DC21A	32/3	63/4	80/4	-	-	-	-	250/2	400/2	630/2	800/2	1000/3
			Up to 48V- DC22A	-	-	-	-	-	-	-	250/2	400/1	630/1	800/1	-
			220V- DC22A	-	-	-	-	-	-	-	250/2	400/2	630/2	800/2	-
			Up to 48V- DC23A	-	-	-	-	-	-	-	250/2	400/1	630/1	800/1	-
			220V- DC23A	-	-	-	-	-	-	-	250/2	400/2	630/2	630/2	-
Rated operational power	P_e	kW	400/415V- AC23A	15	25	30	59	63	75	75	132	200	315	355	400
			690V- AC23A	15	30	30	51	55	55	55	200	315	355	355	-
Short circuit making capacity	I_{cm}	kA	Peak value	1.4	2.9	3.0	3.7	4.0	5.0	5.0	35	65	80	80	105
Short circuit withstand (1sec)	I_{cw}	kA	rms value	0.6	1.3	1.4	2.6	2.8	3.0	3.0	8	17	17	17	50
Min. mechanical endurance		-	Operations (10^3)	250	250	250	50	50	50	50	16	10	10	10	6
Min. electrical endurance		-	415V- at 0.65 pf	-	-	-	-	-	-	-	1,000	1,000	500	500	500
Connecting capacity		-	Terminal type												
		mm ²	Min/Max	2.5/10	2.5/25	2.5/25	-/70	-/70	-/70	-/95	120	2x150	2x185	2x240	2x300
		mm	Stud/Cu palm width	-	-	-	-	-	-	8x25	10x30	10x30	12x40	12x40	12x60
		Nm	Tightening torque	1.2	1.2	1.2	5	5	5	10	35	35	50	50	50

