

Glass Reinforced Polyester (GRP) Hinged Door Switchgear

CDPD180
Issue 2

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

Contact our sales team on 01543 375 541 for further information.

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

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



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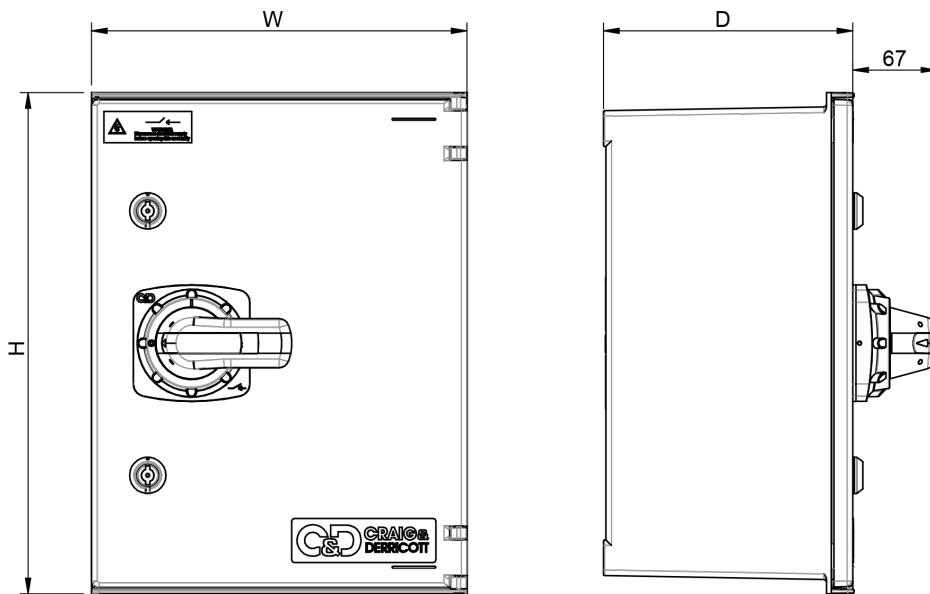
Hinged Door Accessories

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. (Not available for 800A & 1000A switch-disconnectors.)

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 Terminal Cover for 200A Switch-Disconnectors & Fuse Combination (M8 Stud)	STS1
	Individual Terminal Cover for 250A- 400A Switch-Disconnectors & Fuse Combination (M10 Stud)	STS2
	Individual Terminal Cover for 630A Fuse Combination (M12 Stud)	STS3
	Set of 4 Terminal Covers for 630A Switch-Disconnectors (M12 Stud)	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	30	30	50	50	50	