

GRP Hinged Door Switchgear

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 (100A and above).

Suitable for use in extremely harsh and demanding environments, each unit is IK10 compliant, are chemical resistant and fire resistant to 960°C. All units have been tested in accordance with IEC/EN60947-3 and UV tested to ISO4892.

Fuse combination units are available on request.

N' = switched neutral (early make, late break) | 'NL' = unswitched neutral

Switch Disconnectors (I-O)								
Image	Rating	Format	Cat No.	Encl. Size	Encl. Material	Encl. Colour	IP Rating	Cable Entries
	32A	3P+N	EDGP00323N	1	Glass Fibre Reinforced Polyester	Light Grey RAL 7035	IP65	None
		3P+NL	EDGP00323NL					
	63A	3P+N	EDGP00633N	1	Glass Fibre Reinforced Polyester	Light Grey RAL 7035	IP65	None
		3P+NL	EDGP00633NL					
	80A	3P+N	EDGP00803N	1	Glass Fibre Reinforced Polyester	Light Grey RAL 7035	IP65	None
		3P+NL	EDGP00803NL					
	100A	3P+N	EDGP01003N	2	Glass Fibre Reinforced Polyester	Light Grey RAL 7035	IP65	None
		3P+NL	EDGP01003NL					
	125A	3P+N	EDGP01253N	2	Glass Fibre Reinforced Polyester	Light Grey RAL 7035	IP65	None
		3P+NL	EDGP01253NL					
	160A	3P+N	EDGP01603N	2	Glass Fibre Reinforced Polyester	Light Grey RAL 7035	IP65	None
		3P+NL	EDGP01603NL					
	200A	3P+N	EDGP02003N	4	Glass Fibre Reinforced Polyester	Light Grey RAL 7035	IP65	None
		3P+NL	EDGP02003NL					
	250A	3P+N	EDGP02503N	5	Glass Fibre Reinforced Polyester	Light Grey RAL 7035	IP65	None
		3P+NL	EDGP02503NL					
	400A	3P+N	EDGP04003N	6	Glass Fibre Reinforced Polyester	Light Grey RAL 7035	IP65	None
		3P+NL	EDGP04003NL					
	630A	3P+N	EDGP06303N	7	Glass Fibre Reinforced Polyester	Light Grey RAL 7035	IP65	None
		3P+NL	EDGP06303NL					
	800A	3P+N	EDGP08003N	7	Glass Fibre Reinforced Polyester	Light Grey RAL 7035	IP65	None
		3P+NL	EDGP08003NL					
	1000A	3P+N	EDGP10003N	7	Glass Fibre Reinforced Polyester	Light Grey RAL 7035	IP65	None
		3P+NL	EDGP10003NL					













Technical Data Sheet

GRP Hinged Door Switchgear

CDPD180
Issue 3

Technical Specification

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

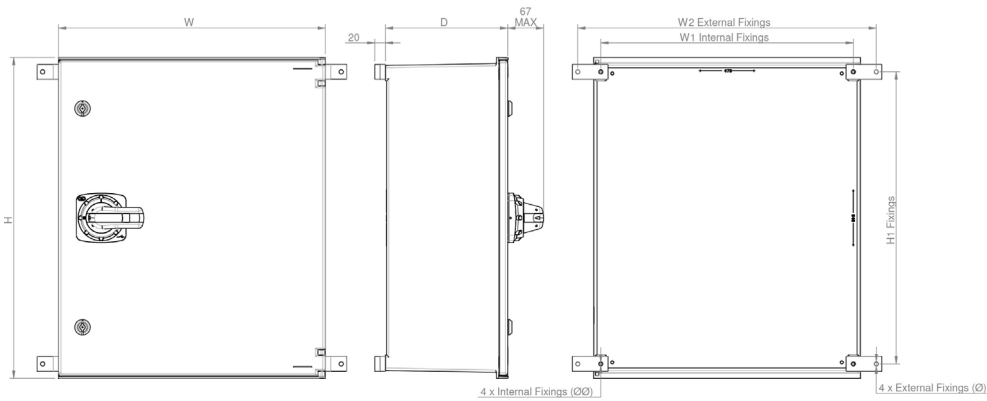
Switch Disconnectors (O-I)															
Application	Sym	Unit	Category	32	63	80	100	125	160	200	250	400	630	800	1000
Rated thermal current	I_{the}	A		32	63	80	100	125	160	200	250	400	630	720	1000
Rated insulation voltage	U_i	V		690	690	690	1000	1000	1000	1000	1000	1000	1000	1000	1000
Rated impulse voltage	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	-	mm ²	Terminal type												
			Min/Max	2.5/10	2.5/25	2.5/25	-/70	-/70	-/70	-/95	120	2x150	2x185	2x240	2x300
			Stud/Cu palm width	-	-	-	-	-	-	8x25	10x30	10x30	12x40	12x40	12x60
			Tightening torque	1.2	1.2	1.2	5	5	5	10	30	30	50	50	50

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Dimensions



Encl. Size	Overall Dims.			Fixing Details			
	H	W	D	H1	W1	W2	Ø
1	300	250	140	250	223	310	9
2	400	300	200	348	273	360	9
3	400	400	200	348	373	460	9
4	600	400	230	546	373	460	9
5	600	500	230	546	473	560	9
6	800	600	300	744	573	660	9
7	1056	852	350	940	750	885	8.5