

Technical Data Sheet

EDG Sheet Steel Hinged Door Switchgear

CDPD101
Issue 8

Sheet Steel Hinged Door Switchgear

A range of 'hinged door' Light Grey (RAL 7035) powder coated sheet steel isolation equipment. Supplied in IP65 generously sized boxes which helps to avoid the need for extension boxes. All enclosures have the switches mounted on a removable galvanised chassis plate. All units are provided with removable top & bottom gland plates.

The range has 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).

Both red (RAL 3020) painted Sheet Steel and Stainless Steel (Grade 304 & 316) enclosures are available on request for the more severe environments. Contact our sales team on 01543 375 541 for further information. Compliant to IEC / BS EN 60947-3.

'N' = switched neutral | 'NL' = Unswitched neutral (100% rated 32A-200A, 50% rated 250A-1000A) | 'EB' = Early break auxiliary contacts

Switch-Disconnectors (O-I)							
Image	Rating	Format	Cat. No.	Encl. Size	Encl. Material	IP Rating	Encl. Colour
	32A	3P+N	EDG00323N	1	Sheet Steel	IP65	Light Grey RAL 7035
		3P+NL	EDG00323NL				
	63A	3P+N	EDG00633N	1	Sheet Steel	IP65	
		3P+NL	EDG00633NL				
		6P	EDG00636				
		6P+2EB Aux	EDG00636EB				
	80A	3P+N	EDG00803N	1	Sheet Steel	IP65	
		3P+NL	EDG00803NL				
		6P	EDG00806				
	100A	3P+N	EDG01003N	1	Sheet Steel	IP65	
		3P+NL	EDG01003NL				
		6P	EDG01006	5			
	125A	3P+N	EDG01253N	3	Sheet Steel	IP65	
		3P+NL	EDG01253NL				
		6P	EDG01256	5			
	160A	3P+N	EDG01603N	3	Sheet Steel	IP65	
		3P+NL	EDG01603NL				
		6P	EDG01606	5			
	200A	3P+N	EDG02003N	7	Sheet Steel	IP65	
		3P+NL	EDG02003NL				
	250A	3P+N	EDG02503N	9	Sheet Steel	IP65	
		3P+NL	EDG02503NL				
	400A	3P+N	EDG04003N	11	Sheet Steel	IP65	
	630A	3P+N	EDG06303N	13	Sheet Steel	IP65	
		3P+NL	EDG06303NL				
	800A	3P+N	EDG08003N	13	Sheet Steel	IP65	
		3P+NL	EDG08003NL				
	1000A	3P+N	EDG10003N	14	Sheet Steel	IP65	
		3P+NL	EDG10003NL				
	Changeover Switch-Disconnectors (I-O-II)						
	63A	4P	ECODG00634	4	Sheet Steel	IP65	Light Grey RAL 7035
	100A	4P	ECODG01004	4	Sheet Steel	IP65	
	125A	4P	ECODG01254	8	Sheet Steel	IP65	
	160A	4P	ECODG01604	8	Sheet Steel	IP65	
	200A	4P	ECODG02004	8	Sheet Steel	IP65	
	250A	4P	ECODG02504	10	Sheet Steel	IP65	
	400A	4P	ECODG04004	13	Sheet Steel	IP65	
	630A	4P	ECODG06304	13	Sheet Steel	IP65	

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Fuse Combination Units (O-I)							
Image	Rating	Format	Cat. No.	Encl. Size	Encl. Material	IP Rating	Encl. Colour
	32A	3P+NL	EDFG00323NL	2	Sheet Steel	IP65	Light Grey RAL 7035
	63A	3P+NL	EDFG00633NL	2	Sheet Steel	IP65	
	100A	3P+NL	EDFG01003NL	6	Sheet Steel	IP65	
	125A	3P+NL	EDFG01253NL	6	Sheet Steel	IP65	
	160A	3P+NL	EDFG01603NL	6	Sheet Steel	IP65	
	200A	3P+NL	EDFG02003NL	8	Sheet Steel	IP65	
	250A	3P+NL	EDFG02503NL	8	Sheet Steel	IP65	
	315A	3P+NL	EDFG03153NL	12	Sheet Steel	IP65	
	400A	3P+NL	EDFG04003NL	12	Sheet Steel	IP65	
	630A	3P+NL	EDFG06303NL	13	Sheet Steel	IP65	

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'.

All of the Fuse Combination Units are supplied fitted with a set of fully rated IEC/BS EN 60269 (BS88) fuse links. Replacements can be supplied as individual fuse links and can be fitted to a lower rating to suit a particular load; please refer to the rating table below to maintain the correct size/tag format.

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.
  	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
Fuse Links		
  	32A Fuse Link. BS Fuse format A2, A3. Fuse Fixing CRS (mm) 73 nom.	SFL32
	63A Fuse Link. BS Fuse format A2, A3. Fuse Fixing CRS (mm) 73 nom.	SFL63
	100A Fuse Link. BS Fuse format A4. Fuse Fixing CRS (mm) 94 nom.	SFL100
	125A Fuse Link. BS Fuse format A4. Fuse Fixing CRS (mm) 94 nom.	SFL125
	160A Fuse Link. BS Fuse format B1, B2. Fuse Fixing CRS (mm) 111 nom.	SFL160
	200A Fuse Link. BS Fuse format B1-B2. Fuse Fixing CRS (mm) 111 nom.	SFL200
	250A Fuse Link. BS Fuse format B1-B2. Fuse Fixing CRS (mm) 111 nom.	SFL250
	315A Fuse Link. BS Fuse format B1-B4. Fuse Fixing CRS (mm) 111 nom.	SFL315
	400A Fuse Link. BS Fuse format B1-B4. Fuse Fixing CRS (mm) 111 nom.	SFL400
	630A Fuse Link. BS Fuse format C1-C3. Fuse Fixing CRS (mm) 133/184 nom.	SFL630
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

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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

Sheet Steel Switch-Disconnectors (O-I)																
Application	Sym	Unit	Category	32	63		80	100	125	160	200	250	400	630	800	1000
				3P	3P	6P	3P	3P	3P	3P	3P	3P	3P	3P	3P	3P
Rated thermal current	I _{the}	A		32	63	63	80	100	125	160	200	250	400	630	720	1000
Rated insulation voltage	U _i	V		690	690	690	690	1000	1000	1000	1000	1000	1000	1000	1000	1000
Rated impulse voltage	U _{imp}	kV		6	6	6	6	8	8	8	8	12	12	12	12	8
Rated operational current (AC)	I _e	A	400V- AC21A	32	63	63	80	100	125	160	200	250*	400*	630*	800*	1000*
			690V- AC21A	32	63	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	48	56	100	112	128	128	250*	400*	630*	720*	1000
			690V- AC23A	17	33	33	33	-	-	-	-	250	350	350	350	-
Rated operational current (DC) (/poles in series)	I _e	A	Up to 48V- DC21A	32/1	63/1	63/1	80/1	-	-	-	-	250/2	400/2	630/1	800/1	1000/1
			220V- DC21A	32/3	63/4	1/1	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	25	30	59	63	75	75	132	200	315	355	400
			690V- AC23A	15	30	30	30	51	55	55	55	200	315	355	355	-
Short circuit making capacity	I _{cm}	kA	Peak value	1.4	2.9	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	1.3	1.4	2.6	2.8	3.0	3.0	8	17	17	17	50
Min. mechanical endurance		-	Operations (10 ³)	250	250	500	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	2.5 / 25	-/50	-/70	-/70	-/95	120	2 x 150	2 x 185	2 x 240	60 x 5
		mm	Stud/Cu palm width	-	-	-	-	-	-	-	8 x 25	10 x 30	10 x 30	12 x 40	12 x 40	12 x 60
		Nm	Tightening torque	1.2	1.2	1.2	1.2	5	5	5	10	35	35	50	50	50

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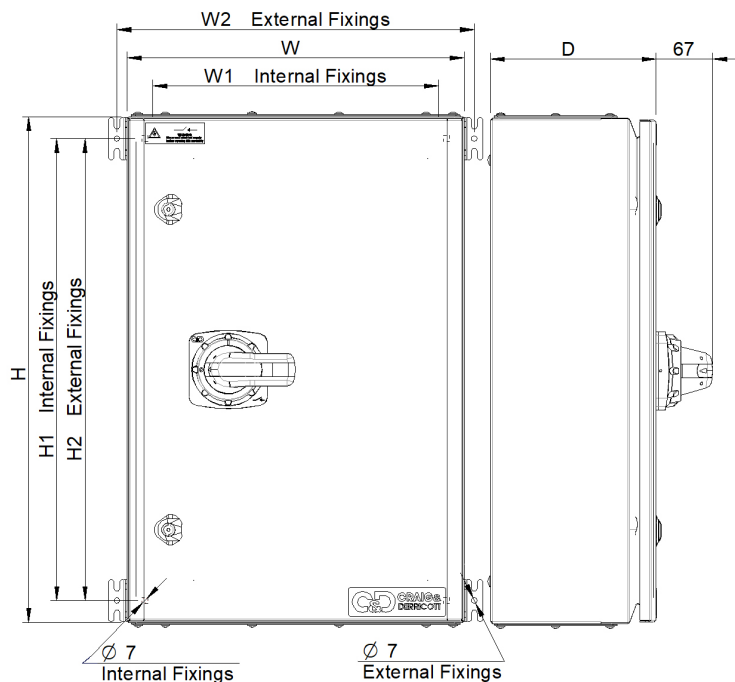
Sheet Steel Fuse Combination Units (O-I)														
Application	Sym	Unit	Category	32	63	100	125	160	200	250	315	400	630	
Rated thermal current	I _{the}	A		32	63	100	125	160	200	250	315	400	630	
Rated insulation voltage	U _i	V		750	750	750	750	750	1000	1000	1000	1000	1000	
Rated impulse voltage	U _{imp}	kV		12	12	12	12	12	12	12	12	12	12	
Rated operational current	AC	I _e	A	415V- AC23A	32	63	100	125	160	200	250	315	400	630
	DC*		220V- DC23A	-	-	100	125	160	200	250	315	400	630	
Rated making capacity (AC23A)		A	415V, 0.35 pf	320	630	1,000	1,250	1,600	2,000	2,500	3,150	4,000	6,300	
Rated breaking capacity (AC23A)		A	415V, 0.35 pf	256	504	800	1,000	1,280	1,600	2,000	2,520	3,200	5,040	
Rated Conditional (Fused) short circuit		kA	S/C current rms	80	80	80	80	80	80	80	80	80	80	
		A	back-up fuse	32	63	100	125	160	200	250	315	400	630	
Min. mechanical endurance		-	Operations	25,000	25,000	15,000	15,000	15,000	10,000	10,000	10,000	10,000	6,000	
Min. electrical endurance		-	415V- at 0.65 pf	1,500	1,500	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
BS fuse format				A2	A2	A4	A4	B1, B2	B1, B2	B1, B2	B1, B4	B1, B4	C1, C3	
Connecting capacity		-	Terminal type											
		mm ²	Min/Max	16	25	95	95	120	150	185	240	300	400	
		mm	Stud/Cu palm width	-	-	8x20	8x20	8x20	10x25	10x25	10x25	10x25	12x50	
		Nm	Tightening torque	2.5	2.5	10	12	16	35	35	35	35	50	
Sheet Steel Changeover Switch-Disconnectors (I-O-II)														
Application	Sym	Unit	Category	63	100	125	160	200	250	400	630			
Rated thermal current	I _{the}	A		63	100	125	160	200	250	400	630			
Rated insulation voltage	U _i	V		750	750	1000	1000	1000	1000	1000	1000			
Rated impulse voltage	U _{imp}	kV		6	6	6	6	6	12	12	12			
Rated operational current	I _e	A	415V- AC22A	63	100	125	160	200	250	400	630			
Rated making capacity (AC23A)		A	415V, 0.35 pf	630	630	1,250	1,600	2,000	2,500	4,000	6,300			
Rated breaking capacity (AC23A)		A	415V, 0.35 pf	504	504	1,000	1,280	1,600	2,000	3,200	5,040			
Short circuit current		kA	rms (with fuses)	80	80	80	80	80	100	100	80			
Rated S/C making capacity		kA	Peak	15	15	20	20	20	30	40	50			
Min. mechanical endurance		-	Operations	20,000	20,000	10,000	10,000	10,000	10,000	10,000	10,000			
Min. electrical endurance		-	415V- at 0.65 pf	2,500	1,500	1,000	1,000	1,000	1,000	1,000	500			
Connecting capacity		-	Terminal type											
		mm ²	Max	35	35	95	95	95	240	300	400			
		mm	Stud/Cu palm width	6/12	6/12	8/22	8/22	8/22	10/25	10/25	12/50			
		Nm	Tightening torque	3	3	10	10	10	30	45	50			

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Dimensions



Encl. Size	H	W	D	H1	H2	W1	W2
1	300	300	150	248	248	258	324
2	300	300	200	248	248	258	324
3	400	300	150	348	348	258	324
4	400	300	200	348	348	258	324
5	400	400	200	348	348	358	424
6	500	400	200	448	448	358	424
7	600	400	200	548	548	358	424
8	600	400	300	548	548	358	424
9	600	500	200	548	548	458	524
10	700	500	300	648	648	458	524
11	800	600	200	748	748	558	624
12	800	600	300	748	748	558	624
13	1000	600	300	948	948	558	624
14	1000	800	300	948	948	758	824