

Technical Data Sheet

Sheet Steel Hinged Door Switchgear

CDPD101
Issue 14

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. The hinged door cannot be opened in the ON position or when the handle is padlocked in the OFF position. For padlocking in both 'Off' and 'On' positions, add '/10' to the catalogue no. E.g. EDG00323N/10. The door interlock handle can be defeated to enable emergency opening or for testing purposes (100A and above).

Flagged hinged door isolators are available upon request.

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-1250A) | 'EB' = early break auxiliary contacts

Switch Disconnectors (O-I)								
Image	Rating	Format	Cat No.	Encl. Size	Encl. Material	Encl. Colour	IP Rating	Cable Entries
	32A	3P+N	EDG00323N	1	Sheet Steel	Light Grey RAL 7035	IP65	Gland Plates
		3P+NL	EDG00323NL					
	63A	3P+N	EDG00633N	1	Sheet Steel	Light Grey RAL 7035	IP65	Gland Plates
		3P+NL	EDG00633NL					
		6P	EDG00636					
		6P+2EB Aux	EDG00636EB					
	80A	3P+N	EDG00803N	1	Sheet Steel	Light Grey RAL 7035	IP65	Gland Plates
		3P+NL	EDG00803NL					
		6P	EDG00806					
	100A	3P+N	EDG01003N	1	Sheet Steel	Light Grey RAL 7035	IP65	Gland Plates
		3P+NL	EDG01003NL					
		6P	EDG01006	5				
	125A	3P+N	EDG01253N	3	Sheet Steel	Light Grey RAL 7035	IP65	Gland Plates
		3P+NL	EDG01253NL					
		6P	EDG01256	5				
	160A	3P+N	EDG01603N	3	Sheet Steel	Light Grey RAL 7035	IP65	Gland Plates
		3P+NL	EDG01603NL					
		6P	EDG01606	5				
	200A	3P+N	EDG02003N	7	Sheet Steel	Light Grey RAL 7035	IP65	Gland Plates
		3P+NL	EDG02003NL					
		6P	EDG02006	10				
	250A	3P+N	EDG02503N	9	Sheet Steel	Light Grey RAL 7035	IP65	Gland Plates
		3P+NL	EDG02503NL					
		6P+2EB Aux	EDG02506EB	10				
	400A	3P+N	EDG04003N	11	Sheet Steel	Light Grey RAL 7035	IP65	Gland Plates
		3P+NL	EDG04003NL					
	630A	3P+N	EDG06303N	13	Sheet Steel	Light Grey RAL 7035	IP65	Gland Plates
		3P+NL	EDG06303NL					
	800A	3P+N	EDG08003N	13	Sheet Steel	Light Grey RAL 7035	IP65	Gland Plates
		3P+NL	EDG08003NL					
	1000A	3P+N	EDG10003N	14	Sheet Steel	Light Grey RAL 7035	IP65	Gland Plates
		3P+NL	EDG10003NL					
	1250A	3P+N	EDG12503N	14	Sheet Steel	Light Grey RAL 7035	IP65	Gland Plates
		3P+NL	EDG12503NL					

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Changeover Switch Disconnectors (I-O-II)

Image	Rating	Format	Cat No.	Encl. Size	Encl. Material	Encl. Colour	IP Rating	Cable Entries
	63A	4P	ECODG00634	4	Sheet Steel	Light Grey RAL 7035	IP65	Gland Plates
	100A	4P	ECODG01004	4	Sheet Steel	Light Grey RAL 7035	IP65	Gland Plates
	125A	4P	ECODG01254	8	Sheet Steel	Light Grey RAL 7035	IP65	Gland Plates
	160A	4P	ECODG01604	8	Sheet Steel	Light Grey RAL 7035	IP65	Gland Plates
	200A	4P	ECODG02004	8	Sheet Steel	Light Grey RAL 7035	IP65	Gland Plates
	250A	4P	ECODG02504	10	Sheet Steel	Light Grey RAL 7035	IP65	Gland Plates
	400A	4P	ECODG04004	13	Sheet Steel	Light Grey RAL 7035	IP65	Gland Plates
	630A	4P	ECODG06304	13	Sheet Steel	Light Grey RAL 7035	IP65	Gland Plates

Fuse Combination Units (O-I)

	32A	3P+NL	EDFG00323NL	2	Sheet Steel	Light Grey RAL 7035	IP65	Gland Plates
	63A	3P+NL	EDFG00633NL	2	Sheet Steel	Light Grey RAL 7035	IP65	Gland Plates
	100A	3P+NL	EDFG01003NL	6	Sheet Steel	Light Grey RAL 7035	IP65	Gland Plates
	125A	3P+NL	EDFG01253NL	6	Sheet Steel	Light Grey RAL 7035	IP65	Gland Plates
	160A	3P+NL	EDFG01603NL	6	Sheet Steel	Light Grey RAL 7035	IP65	Gland Plates
	200A	3P+NL	EDFG02003NL	8	Sheet Steel	Light Grey RAL 7035	IP65	Gland Plates
	250A	3P+NL	EDFG02503NL	8	Sheet Steel	Light Grey RAL 7035	IP65	Gland Plates
	315A	3P+NL	EDFG03153NL	12	Sheet Steel	Light Grey RAL 7035	IP65	Gland Plates
	400A	3P+NL	EDFG04003NL	12	Sheet Steel	Light Grey RAL 7035	IP65	Gland Plates
	630A	3P+NL	EDFG06303NL	13	Sheet Steel	Light Grey RAL 7035	IP65	Gland Plates
	800A	3P+NL	EDFG08003NL	13	Sheet Steel	Light Grey RAL 7035	IP65	Gland Plates

Accessories

Add-on auxiliary blocks are available for all hinged door products. All auxiliaries are supplied as 1 N/O+1 N/C. 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

Description	Cat. No.
Auxiliary Contact For 32A- 200A Switch Disconnectors	SAUXCO
Auxiliary Contact For 32A- 160A Fuse Combination Units	SAUXKITA
Auxiliary Contact For 250A Switch Disconnectors	SAUXKITB
Auxiliary Contact For 400A- 800A Switch Disconnectors & 200A- 400A Fuse Combination Units	SAUXKITC
Auxiliary Contact For 1000A Switch Disconnectors & 630A Fuse Combination Units	SAUXKITD

Fuse Links

Description	Bussman Cat. No	Cat. No.
32A Fuse Link. BS Fuse Format A2, A3. Fuse Fixing CRS (mm) 73 nom.	AA032	SFL32
63A Fuse Link. BS Fuse Format A2, A3. Fuse Fixing CRS (mm) 73 nom.	BA063	SFL63
100A Fuse Link. BS Fuse Format A4. Fuse Fixing CRS (mm) 94 nom.	CE0100	SFL100
125A Fuse Link. BS Fuse Format A4. Fuse Fixing CRS (mm) 94 nom.	DE0125	SFL125
160A Fuse Link. BS Fuse Format B1, B2. Fuse Fixing CRS (mm) 111 nom.	DD160	SFL160
200A Fuse Link. BS Fuse Format B1-B2. Fuse Fixing CRS (mm) 111 nom.	DD200	SFL200
250A Fuse Link. BS Fuse Format B1-B2. Fuse Fixing CRS (mm) 111 nom.	ED250	SFL250
315A Fuse Link. BS Fuse Format B1-B4. Fuse Fixing CRS (mm) 111 nom.	ED315	SFL315

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Fuse Links		
Description	Bussman Cat. No	Cat. No.
400A Fuse Link. BS Fuse Format B1-B4. Fuse Fixing CRS (mm) 111 nom.	ED400	SFL400
630A Fuse Link. BS Fuse Format C1-C3. Fuse Fixing CRS (mm) 133/184 nom.	FF630	SFL630
Terminal Covers		
Description	Cat. No.	
Set of 4 Terminal Covers For 200A Switch Disconnectors & Fuse Combination Units (M8 Stud)	STS1	
Set of 4 Terminal Covers For 250A- 400A Switch Disconnectors & Fuse Combination Units (M10 Stud)	STS2	
Set of 4 Terminal Covers For 630A Fuse Combination Units (M12 Stud)	STS3	
Set of 4 Terminal Covers For 630A Switch Disconnectors (M12 Stud)	STS4	

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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
				3P	3P	6P	3P	3P	3P	3P
Rated thermal current	I_{the}	A		32	63	63	80	100	125	160
Rated insulation voltage	U_i	V		690	690	690	690	1000	1000	1000
Rated impulse voltage	U_{imp}	kV		6	6	6	6	8	8	8
Rated operational current (AC)	I_e	A	400V AC21A	32	63	63	80	100	125	160
			690V AC21A	32	63	63	80	100	125	160
			400V AC22A	-	-	-	-	100	125	160
			690V AC22A	-	-	-	-	100	125	160
			400V AC23A	29	48	48	56	105	111	132
			690V AC23A	17	33	33	33	-	-	-
Rated operational current (DC) (/poles in series)	I_e	A	Up to 48V DC21A	32/1	63/1	63/1	80/1	-	-	-
Rated operational power	P_e	kW	400/415V AC23A	15	25	25	30	59	63	75
			690V AC23A	15	30	30	30	51	55	55
Short circuit making capacity	I_{cm}	kA	Peak value	1.4	2.9	2.9	3.0	3.7	4.0	5.0
Short circuit withstand (1sec)	I_{cw}	kA	rms value	0.6	1.3	1.3	1.4	2.6	2.8	3.0
Min. mechanical endurance		-	Operations (10 ³)	250	250	500	250	50	50	50
Connecting capacity		-	Terminal type							
		mm ²	Min/Max	2.5 / 10	2.5 / 25	2.5 / 25	2.5 / 25	2.5/50	2.5/70	2.5/70
		Nm	Tightening torque	1.2	1.2	1.2	1.2	5	5	5

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Sheet Steel Switch Disconnectors (O-I)										
Application	Sym	Unit	Category	200	250	400	630	800	1000	1250
				3P/6P	3P/6P	3P	3P	3P	3P	3P
Rated thermal current	I_{the}	A		200	250	400	630	720	1000	1250
Rated insulation voltage	U_i	V		1000	1000	1000	1000	1000	1000	1000
Rated impulse voltage	U_{imp}	kV		8	12	12	12	12	8	8
Rated operational current (AC)	I_e	A	400V AC21A	200	250*	400*	630*	800*	1000*	1250*
			690V AC21A	200	250	400	630	800	1000	1250
			400V AC22A	200	250*	400*	630*	800*	1000*	1250*
			690V AC22A	160	250	400	630	800	-	-
			400V AC23A	132	250*	400*	630*	720*	1000*	1000*
			690V AC23A	-	250	350	350	350	-	-
Rated operational current (DC) (/poles in series)	I_e	A	Up to 48V DC21A	-	250/2	400/2	630/1	800/1	1000/1	1250/1
			220V DC21A	-	250/2	400/2	630/2	800/2	1000/3	1250/3
			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	75	132	200	315	355	400	500
			690V AC23A	55	200	315	355	355	-	-
Short circuit making capacity	I_{cm}	kA	Peak value	5.0	35	65	80	80	105	105
Short circuit withstand (1sec)	I_{cw}	kA	rms value	3.0	8	17	17	17	50	50
Min. mechanical endurance		-	Operations (10^3)	50	16	10	10	10	6	6
Min. electrical endurance		-	415V at 0.65 pf	-	1,000	1,000	500	500	500	500
Connecting capacity		-	Terminal type							
		mm ²	Min/Max	-/95	150	2 x 150	2 x 185	2 x 240	2 x 300	3 x 300
		mm	Stud/Cu palm width	8 x 25	10 x 30	10 x 30	12 x 40	12 x 40	12 x 60	12 x 60
		Nm	Tightening torque	10	30	30	50	50	50	50

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Sheet Steel Fuse Combination Units (O-I)									
Application	Sym	Unit	Category	32	63	100	125	160	200
Rated thermal current	I_{the}	A		32	63	100	125	160	200
Rated insulation voltage	U_i	V		750	750	750	750	750	1000
Rated impulse voltage	U_{imp}	kV		12	12	12	12	12	12
Rated operational current	AC	I_e	415V AC23A	32	63	100	125	160	200
	DC		220V DC23A	-	-	100/4	100/4	100/4	200/3
Rated making capacity (AC23A)		A	415V, 0.35 pf	320	630	1,000	1,250	1,600	2,000
Rated breaking capacity (AC23A)		A	415V, 0.35 pf	256	504	800	1,000	1,280	1,600
Rated conditional (fused) short circuit	kA	kA	S/C current rms	80	80	80	80	80	80
	A	A	back-up fuse gG	32	63	100	125	160	200
Min. mechanical endurance		-	Operations	25000	25000	15000	15000	15000	10000
Min. electrical endurance		-	415V at 0.65 pf	1,500	1,500	1,000	1,000	1,000	1,000
BS fuse format				A3	A3	A4	A4	B1, B2	B1, B2
Connecting capacity		-	Terminal type						
		mm ²	Min/Max	16	25	95	95	120	150
		mm	Stud/Cu palm width	-	-	8x20	8x20	8x20	10x25
		Nm	Tightening torque	2.5	2.5	10	10	10	30
Sheet Steel Fuse Combination Units (O-I)									
Application	Sym	Unit	Category	250	315	400	630	800	
Rated thermal current	I_{the}	A		250	315	400	630	800	
Rated insulation voltage	U_i	V		1000	1000	1000	1000	1000	
Rated impulse voltage	U_{imp}	kV		12	12	12	12	12	
Rated operational current	AC	I_e	415V AC23A	250	315	400	630	720	
	DC		220V DC23A	250/3	315/3	400/3	630/3	800/3	
Rated making capacity (AC23A)		A	415V, 0.35 pf	2,500	3,150	4,000	6,300	8,000	
Rated breaking capacity (AC23A)		A	415V, 0.35 pf	2,000	2,520	3,200	5,040	5,760	
Rated conditional (fused) short circuit	kA	kA	S/C current rms	80	80	80	80	80	
	A	A	back-up fuse gG	250	315	400	630	800	
Min. mechanical endurance		-	Operations	10000	10000	10000	10000	10000	
Min. electrical endurance		-	415V at 0.65 pf	1,000	1,000	1,000	1,000	1,000	
BS fuse format				B1, B2	B1, B4	B1, B4	C1, C3	C1, C3	
Connecting capacity		-	Terminal type						
		mm ²	Min/Max	185	240	300	400	400	
		mm	Stud/Cu palm width	10x25	10x25	10x25	12x50	12x50	
		Nm	Tightening torque	30	30	30	50	50	

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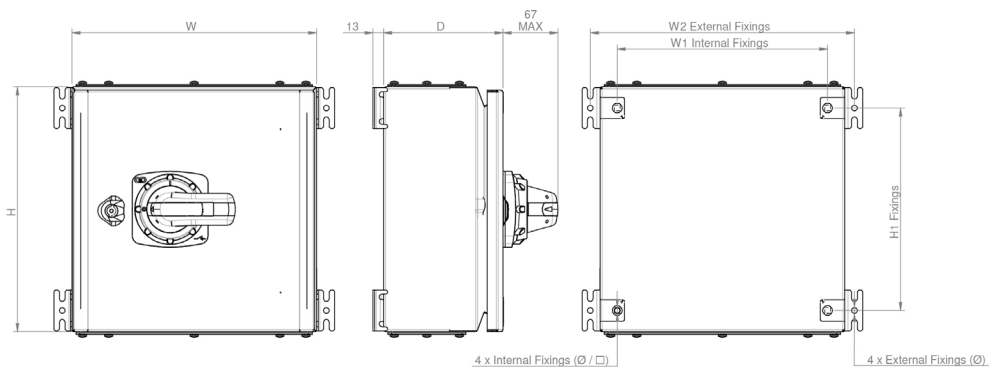
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Sheet Steel Changeover Switch Disconnectors (I-O-II)											
Application	Sym	Unit	Category	63	100	125	160	200	250	400	630
Rated thermal current	I_{the}	A		63	100	125	160	200	250	400	630
Rated insulation voltage	U_i	V		750	750	1000	1000	1000	1000	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	30	50

Dimensions



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