Technical Data Sheet

Mild Steel Switch Disconnectors

CDPD58
Issue 1

General Description

Switchgear housed in mild steel enclosures provides the user with a robust and cost effective assembly along with the added features offered by the 'i-switch' range. Sealing to IP66 is a standard feature as is the ability to add a selection of auxiliary blocks providing additional contacts and a choice of Neutral assemblies. External mounting feet in stainless steel are offered as an accessory sized to match each enclosure.

With the 'i-switch' range comes an important safety feature which prevents the enclosure cover being removed when the device has been padlocked in the 'Off' position. When combined with the excellent on-load breaking capacity of the 'i-switch' family this feature ensures that the term 'Safety Switch' is fully satisfied.



Safety Features

Padlocking

All items allow for the insertion of up to three padlocks in the 'Off' position thus preventing the isolator being switched to the 'On' position.

Standard shackle diameter Ø6.4



Safety Interlock

Screwed lid enclosures have always been open to abuse by having the lid removable when the isolator is 'Off' and padlocked. This would allow the switch shaft to be turned manually to the 'On' position, thus defeating the safety padlocking feature.

The 'i-switch' range now incorporates a mechanical interlock which when a padlock is inserted prevents the enclosure lid from being removed.

Switch-Disconnectors (O-I)

Catalogue Numbers

Rating	Format	Interior Switch	Cat. No.	Enclosure Size
20A	6P	GX20	SDMG206	A
	6P+2EB Aux	GX20	SDMG206EB	
25A	2P	CS25	SDMG252	A
	3P	CS25	SDMG253	
	3P+NL	CS25	SDMG253NL	
	3P+N	CS25	SDMG253N	
	3P+2EB Aux	CS25	SDMG253EB	
32A	2P	CS32	SDMG322	A
	3P	CS32	SDMG323	
	3P+NL	CS32	SDMG323NL	
	3P+N	CS32	SDMG323N	
	3P+2EB Aux	CS32	SDMG323EB	
40A	2P	CS40R	SDMG402	B
	3P	CS40R	SDMG403	
	3P+NL	CS40R	SDMG403NL	
	3P+N	CS40R	SDMG403N	
	3P+2EB Aux	CS40R	SDMG403EB	
	6P	GX40	SDMG406	
	6P+2EB Aux	GX40	SDMG406EB	
63A	2P	CS63	SDMG632	B
	3P	CS63	SDMG633	
	3P+NL	CS63	SDMG633NL	
	3P+N	CS63	SDMG633N	
	3P+2EB Aux	CS63	SDMG633EB	

'N' = switched neutral (Early make, late break)
'NL' = Unswitched neutral
'EB' = Early break auxiliary contacts

Changeover Switch-Disconnectors (I-O-II)

Catalogue Numbers

Rating	Format	Interior Switch	Cat. No.	Enclosure Size
20A	2P	GX20	SCODMG202	A
	3P	GX20	SCODMG203	
	4P	GX20	SCODMG204	
40A	2P	GX40	SCODMG402	B
	3P	GX40	SCODMG403	
	4P	GX40	SCODMG404	

Accessories

Applicable to type 'CS' interiors only

Description	Cat. No.
Auxiliary Contact - 2 Early Break	SAUX2EB
Auxiliary Contact - 1 N/O + 1 N/C	SAUXCO
25A - 40A Compact Neutral (Unswitched)	SNLC40
63A Neutral (Unswitched)	SNL63
25A Neutral (Switched)	SSP25
32A & 40A Neutral (Switched)	SSP40
63A Neutral (Switched)	SSP63

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Design Features

Enclosure

Material	Sheet steel, thickness 1.2mm
Paint finish	Epoxy Powder Coated.
Colour	Enclosure - Grey RAL 7035
Entries	**Size A Enclosure** - 2 x M20 **Size B Enclosure** - 2 x M20 + 2 x M25
Cover Screws	Stainless Steel (Captive)
External Feet	Size A enclosure - Cat. No. **EFA** Size B enclosure - Cat. No. **EFB**

Earthing

Earth continuity terminals are provided in the base and lid of each enclosure.

Switch-Disconnectors

2 & 3 Pole	Type **CS** - base mounted. (Accepts add-on Aux. blocks & Neutrals)
6 Pole	Type **GX** - base mounted. (also available with 2 E/B Aux.)

Changeover Switch-Disconnectors

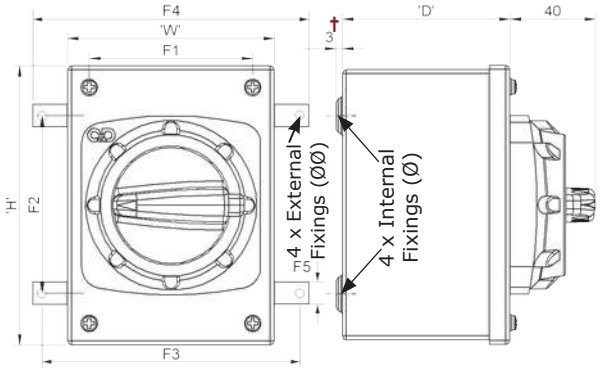
2, 3 & 4 Pole	Type **GX** - base mounted.

Technical Specification

Data supplied against tests to IEC/BS EN 60947-3

				Rating									
Application	Sym.	Unit	Category	20A	25A	32A		40A		63A		80A	100A
Switch product range	-	-		GX20	CS25	GX32	CS32	GX40	CS40R	GN63	CS63	CS80	CS100
Rated thermal current	I_{the}	A		20	25	32	32	40	40	63	63	80	100
Rated insulation voltage	U_i	V		690	690	690	690	690	690	690	690	690	1000
Rated impulse voltage	U_{imp}	kV		6	6	6	6	6	6	6	6	6	8.0
Rated operational power(3 phase AC)		kW	380/440 - AC23	7.5	11	15	15	18.5	15	30	25	30	59
			500V - AC23	7.5	15	15	15	15	15	30	30	37	63
			690V - AC23	7.5	15	15	15	15	15	30	30	30	51
Rated short time withstand current (1 sec)	I_{cw}	A		250	500	800	600	800	600	1600	1300	1400	2600
Max. fuse size for short circuit protection (gG Characteristic)		kA	10kA	20	35	35	35	40	40	63	80	80	160
			25kA	16	32	35	32	35	32	63	63	63	160
			50kA	-	32	-	32	-	32	63	63	63	160
Recommended connecting capacity		-	Terminal type										
		mm^2	Flexible cable	2.5 x 2	6	6 x 2	6	6 x 2	6	10	16	16	50
		mm^2	Rigid cable	2.5 x 2	10	10 x 2	10	10 x 2	10	16	25	25	70
		Nm	Tightening torque	1.0	1.2	1.0	1.2	1.0	1.2	1.2	1.2	1.2	2

Dimensions



† Stainless steel enclosures are supplied without 'raised dimples' to allow flush mounting.

	Overall Dims.			Internal Fixings			External EFA/EFB Fixings			
	H	W	D	F1	F2	Ø	F3	F4	F5	ØØ
Size A	135	100	80	51	86	5.5	126	140	16	6.35
Size B	175	130	100	81	126	5.5	155	178	16	6.35

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