Technical Data Sheet

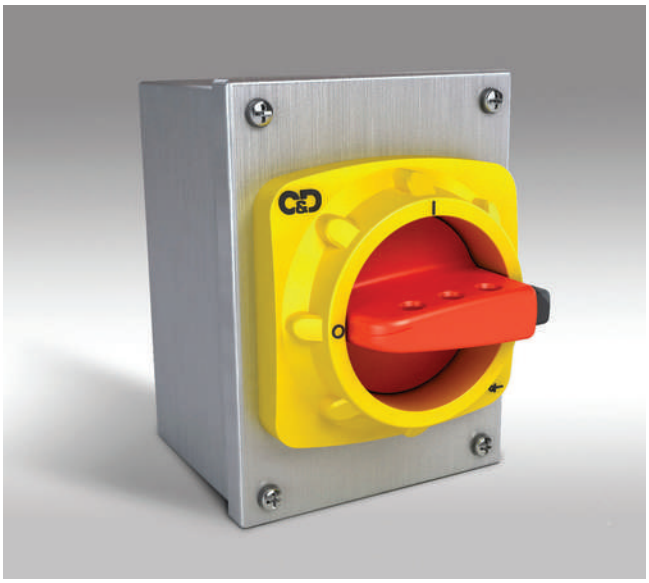
Stainless Steel Switch Disconnectors

CDPD59
Issue 1

General Description

Switchgear housed in stainless steel enclosures provides the user with an assembly that can be installed in the harshest of environments. Outdoor in unprotected positions or indoor and subject to severe environmental conditions, the standard stainless steel i-switch range with a flush back surface offers the ideal solution. 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.

Standard Switch-Disconnectors (O-I)

Catalogue Numbers

Rating	Format	Interior Switch product range	Cat. No.	Enclosure Size (IP66)
20A	6P	GX20	SDS206	A
	6P+2EB Aux	GX20	SDS206EB	
25A	2P	CS25	SDS252	A
	3P	CS25	SDS253	
	3P+NL	CS25	SDS253NL	
	3P+N	CS25	SDS253N	
	3P+2EB Aux	CS25	SDS253EB	
32A	2P	CS32	SDS322	A
	3P	CS32	SDS323	
	3P+NL	CS32	SDS323NL	
	3P+N	CS32	SDS323N	
	3P+2EB Aux	CS32	SDS323EB	
40A	2P	CS40R	SDS402	B
	3P	CS40R	SDS403	
	3P+NL	CS40R	SDS403NL	
	3P+N	CS40R	SDS403N	
	3P+2EB Aux	CS40R	SDS403EB	
	6P	GX40	SDS406	
	6P+2EB Aux	GX40	SDS406EB	
63A	2P	CS63	SDS632	B
	3P	CS63	SDS633	
	3P+NL	CS63	SDS633NL	
	3P+N	CS63	SDS633N	
	3P+2EB Aux	CS63	SDS633EB	

'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 product range	Cat. No.	Enclosure Size
20A	2P	GX20	SCODS202	A
	3P	GX20	SCODS203	
	4P	GX20	SCODS204	
40A	2P	GX40	SCODS402	B
	3P	GX40	SCODS403	
	4P	GX40	SCODS404	

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Design Features

Enclosure *(Flush rear surface)*

Material	Stainless steel, Grade 304, thickness 1.2mm (Grade 316 to special order)
Finish	Brushed - Satin (150 grit)
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.

Accessories

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
80A Neutral (Unswitched)	SNL80
100A Neutral (Unswitched)	SNL100
25A Neutral (Switched)	SSP25
32A & 40A Neutral (Switched)	SSP40
63A Neutral (Switched)	SSP63
80A Neutral (Switched)	SSP80
100A Neutral (Switched)	SSP100

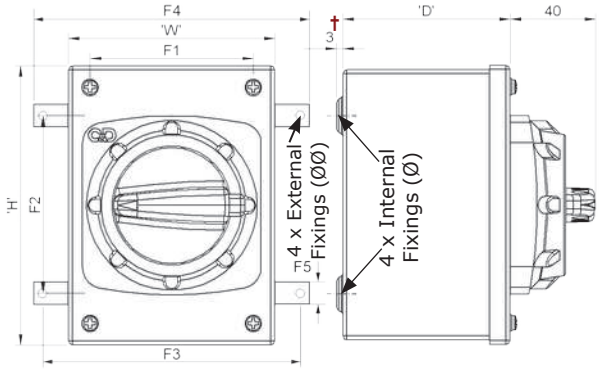


Neutral Link (Unswitched) | 2 Early Break Auxiliary | Neutral Link (Switched)



SNLC40 Neutral Link

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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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

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