Technical Data Sheet
Moulded Plastic Switch Disconnectors

CDPD55
Issue 1

General Description

Switchgear housed in moulded plastic enclosures provide the basis for most industrial applications and the added benefits offered by the 'i-switch' range provide the user with a wealth of opportunities when selecting the correct item for a specific application. Sealing up 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.

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.

Watch a 3 minute video explaining the various safety features built-in to the design of the i-switch 'screwed lid' product family.

Switch-Disconnectors (O-I)

Catalogue Numbers

Rating	Format	Interior Switch product range	Cat. No.	Enclosure Size
20A	6P	GX20	SDP206	A (IP66)
	6P+2EB Aux	GX20	SDP206EB	
25A	2P	CS25	SDP252	A (IP66)
	3P	CS25	SDP253	
	3P+NL	CS25	SDP253NL	
	3P+N	CS25	SDP253N	
	3P+2EB Aux	CS25	SDP253EB	
32A	2P	CS32	SDP322	A (IP66)
	3P	CS32	SDP323	
	3P+NL	CS32	SDP323NL	
	3P+N	CS32	SDP323N	
	3P+2EB Aux	CS32	SDP323EB	
40A	2P	CS40R	SDP402	B (IP66)
	3P	CS40R	SDP403	
	3P+NL	CS40R	SDP403NL	
	3P+N	CS40R	SDP403N	
	3P+2EB Aux	CS40R	SDP403EB	
	6P	GX40	SDP406	
	6P+2EB Aux	GX40	SDP406EB	
63A	2P	CS63	SDP632	B (IP66)
	3P	CS63	SDP633	
	3P+NL	CS63	SDP633NL	
	3P+N	CS63	SDP633N	
	3P+2EB Aux	CS63	SDP633EB	
80A	2P	CS80	SDP802	C (IP65)
	3P	CS80	SDP803	
	3P+NL	CS80	SDP803NL	
	3P+N	CS80	SDP803N	
	3P+2EB Aux	CS80	SDP803EB	
100A	2P	CS100	SDP1002	D (IP65)
	3P	CS100	SDP1003	
	3P+NL	CS100	SDP1003NL	
	3P+N	CS100	SDP1003N	
	3P+2EB Aux	CS100	SDP1003EB	

'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	SCODP202	A (IP66)
	3P	GX20	SCODP203	
	4P	GX20	SCODP204	
40A	2P	GX40	SCODP402	B (IP66)
	3P	GX40	SCODP403	
	4P	GX40	SCODP404	

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Design Features

Enclosure

Material	20A-63A PC/ABS 80A-100A PC
Colour	Enclosure - Grey RAL 7035
Entries	**Size A Enclosure** - 2 x M20 knock-outs on top & bottom faces. **Size B Enclosure** - 2 x M20/25 knock-outs on top & bottom faces. Back face - 2 x M20 knock-outs. **Size C & D Enclosures** - Blank sides.
Cover Screws	Stainless Steel (Captive)
Fixings	Outside sealed cavity.

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.

Earthing

Earth terminals are provided in the base of the enclosures.

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
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

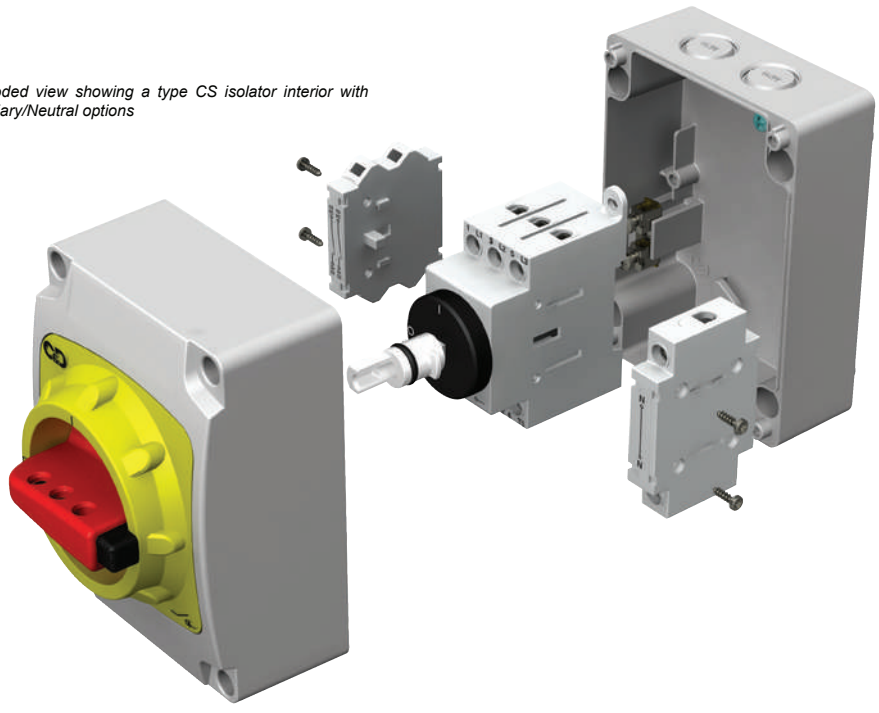


Neutral Link (Unswitched) | 2 Early Break Auxiliary | Neutral Link (Switched)



SNLC40 Neutral Link

Exploded view showing a type CS isolator interior with Auxiliary/Neutral options



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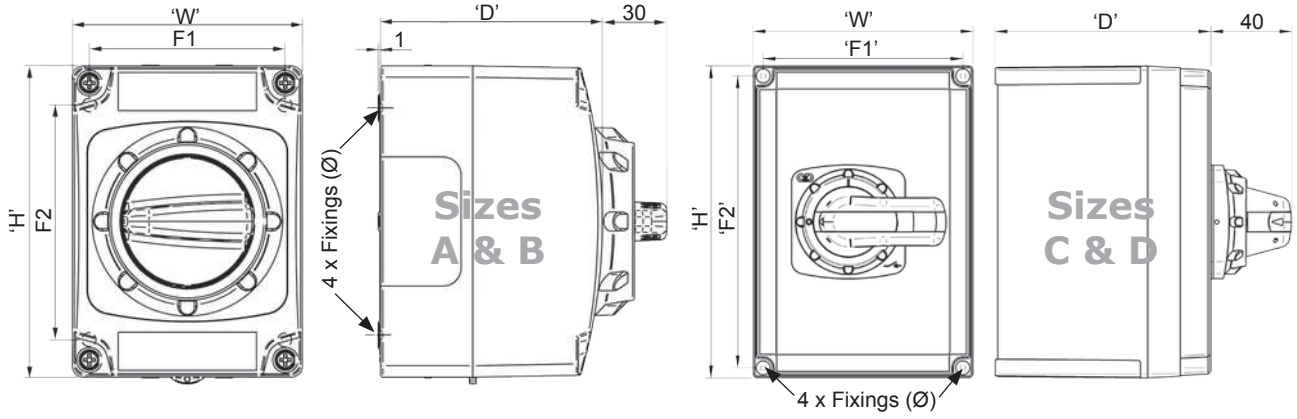
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Technical Specification

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

Dimensions



	Overall Dims.			Fixing details		
	H	W	D	F1	F2	Ø
Size A	135	100	95	85	98.5	5.5
Size B	175	130	115	115	135	5.5
Size C	255	180	125	163.5	238.5	4.5
Size D	255	180	175	163.5	238.5	4.5

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