

# T e c h n i c a l   D a t a   S h e e t

## Explosion Proof - Zone 1, 2, 21 & 22 EX DB EB TB

CDPD271  
Issue 1

### Explosion Proof - Zone 1, 2, 21 and 22 Ex db eb tb

The EXZ1 range of enclosed Switch Disconnectors are supplied in glass reinforced polyester enclosures with sealing to IP65 ensuring the product will withstand being installed in the harshest of industrial environments.

The operating handles come standard in Red/Yellow and can be padlocked in the 'Off' position. All lids are mechanically interlocked with the isolating switch and are removable in the 'On' position only. If you would require a black handle instead please replace R in the Cat. No. with a B e.g. EXZ1SDB02530.

Available in ratings from 25A- 180A the isolating switch interiors are supplied in either 3 or 4 pole formats complete with 1 N/O (Early break) & 1 N/C (Late make) auxiliary contacts.

Optional Brass Earthing Plates are available on request to enable armoured cables to be earth bonded within the insulated enclosure a selection of pre-drilled earthing plates are available for each enclosure size.

### Certification

All items have been approved with ATEX (CML 15ATEX1197X), IECEx (IECEx CML 15.0093X) and UKEX (CML 21UKEX1353X) certificates for use in Zones 1, 2, 21 & 22.













The equipment is designed and tested to comply with the following:-

- EN 60079-0 Electrical Atmospheres, Part 0 : Equipment- general requirements.
- EN 60079-1 Electrical Atmospheres, Part 1 : Equipment protection by flameproof enclosures 'd'.
- EN 60079-7 Electrical Atmospheres, Part 7 : Equipment protection by increased safety 'e'.
- EN 60947-1 Low-Voltage switchgear and controlgear- Part 1: general rules.
- EN 60947-3 Low-Voltage switchgear and controlgear- Part 3: switches, disconnectors, switch disconnectors and fuse combination units.
- EN 60529 Degrees of protection provided by enclosures. (IP Code)

#### Key to Marking

-  Specific marking for Explosion protection
-  II Equipment group
-  2 Equipment category
-  G Environment e.g. Gas

Switch Disconnectors (O-I)

Image	Rating	Format	Cat. No.	Encl. Size	Encl. Material	IP Rating	Opt. Brass Earthing Plate Cat. No.	Equipment Marking	Min & Max Temp.
	25A	3P+Aux	EXZ1SDR02530	A	Glass Reinforced Polyester	IP65	EXEP0254	25A  II 2 GD Ex db eb IIC T6 Gb Ex tb IIIC T80°C Db	-40°C to +40°C
		4P+Aux	EXZ1SDR02540					25A  II 2 GD Ex db eb IIC T5 Gb Ex tb IIIC T95°C Db	-40°C to +55°C
	40A	3P+Aux	EXZ1SDR04030	B	Glass Reinforced Polyester	IP65	EXEP0404	40A  II 2 GD Ex db eb IIC T6 Gb Ex tb IIIC T80°C Db	-40°C to +40°C
		4P+Aux	EXZ1SDR04040					40A  II 2 GD Ex db eb IIC T5 Gb Ex tb IIIC T95°C Db	-40°C to +55°C
	80A	3P+Aux	EXZ1SDR08030	C	Glass Reinforced Polyester	IP65	EXEP0804	80A  II 2 GD Ex db eb IIC T6 Gb Ex tb IIIC T80°C Db	-40°C to +40°C
		4P+Aux	EXZ1SDR08040					80A  II 2 GD Ex db eb IIC T5 Gb Ex tb IIIC T95°C Db	-40°C to +55°C
	180A	3P+Aux	EXZ1SDR18030	D	Glass Reinforced Polyester	IP65	EXEP1804	180A  II 2 GD Ex db eb IIC T5 Gb Ex tb IIIC T95°C Db	-40°C to +40°C
		4P+Aux	EXZ1SDR18040					180A  II 2 GD Ex db eb IIC T4 Gb Ex tb IIIC T130°C Db	-40°C to +55°C






# Technical Data Sheet

## Explosion Proof - Zone 1, 2, 21 & 22 EX DB EB TB

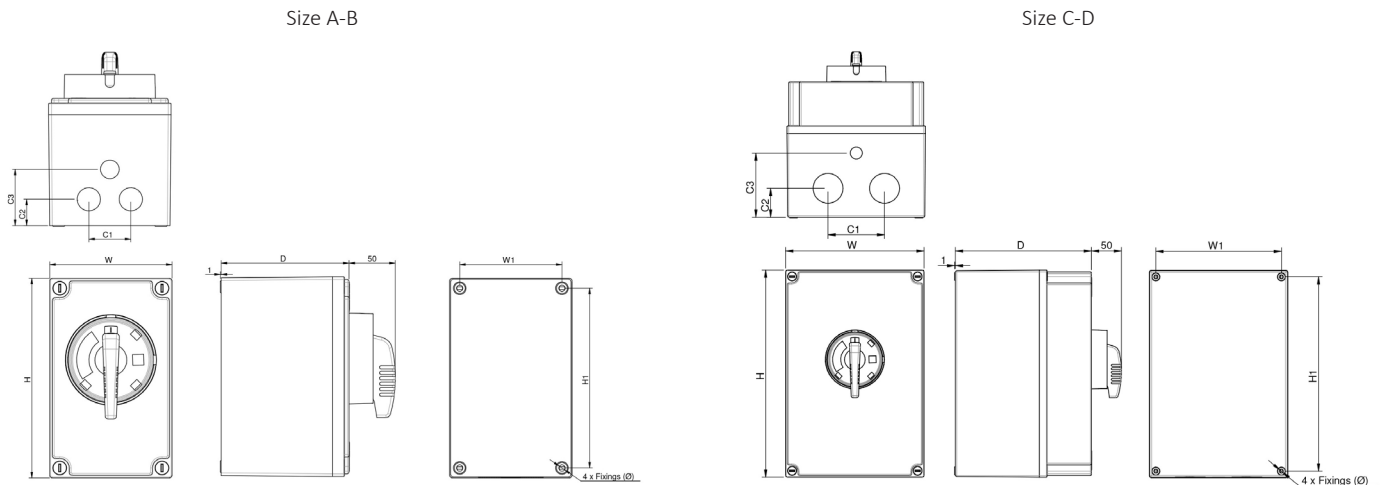
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### Technical Specification

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

Zone 1, 2, 21 and 22 EX db eb									
Application	Sym.	Unit	Category	Main Contacts				Aux. Contacts	
				25A	40A	80A	180A	Category	Aux.
Rated thermal current	$I_{the}$	A		25	40	80	180		10
Rated insulation voltage	$U_i$	V		690	690	690	690		690
Rated current	-	A	AC3 (230V)	25	40	80	180	AC15 (250V)	10
			AC3 (400V)	25	40	80	180	AC15 (400V)	8
			AC3 (500V)	20	40	80	150	DC13 (24V)	8
			AC3 (690V)	16	32	63	125	DC13 (250V)	1
Terminal capacity		mm <sup>2</sup>	-	2x4	2x10	2x25	2x95		2x1.5
Tightening torque (Nm)			-	2.5	2.5	3.5	8.5		2.5
Terminal type	-								

### Dimensions



Encl. Size	Overall Dims.			Fixing Details			Cable Entries			
	H	W	D	H1	W1	Ø	C1	C2	C3	Entries
A	220	134	141	186	112	7	46	30	63	M20 + 2xM25
B	275	160	161	253	138	7	65.5	33	63	M20 + 2xM40
C	352	234	231	330	212	7	95.5	50	110	M20 + 2xM50
D	706	352	231	684	330	7	170	72	72	M20 + 2xM63