

Technical Data Sheet

Explosion Proof Switchgear Range



CDPD149
Issue 5

Explosion Proof - Zone 1, 2, 21 and 22 EXe

The 'EX21' range of enclosed switch-disconnectors are supplied in Exe enclosures manufactured from glass reinforced polyester 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) and 'IECEx' (IECEx CML 15.0093X) 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 switch gear and controlgear- Part 1: general rules.
- EN 60947-3 Low-Voltage switch gear and controlgear- Part 3: switches, disconnectors, switch-disconnectors and fuse combination units.
- EN 60529 Degrees of protection provided by enclosures. (IP Code)

Image	Rating	Format	Cat. No.	Optional Brass Earthing Plate Cat. No.	Encl. Size	IP Rating	Equipment Marking	Min & Max Temp.
	25A	3P+Aux	EXZ1SDR02530	EXEP0254	A	IP65	25A ⚡ II2GD Ex de IIC T6 Gb Ex tb IIIC T80°C Db	-40°C to +40°C
		4P+Aux	EXZ1SDR02540				25A ⚡ II2GD Ex de IIC T5 Gb Ex tb IIIC T95°C Db	-40°C to +55°C
	40A	3P+Aux	EXZ1SDR04030	EXEP0404	B	IP65	40A ⚡ II2GD Ex de IIC T6 Gb Ex tb IIIC T80°C Db	-40°C to +40°C
		4P+Aux	EXZ1SDR04040				40A ⚡ II2GD Ex de IIC T5 Gb Ex tb IIIC T95°C Db	-40°C to +55°C
	80A	3P+Aux	EXZ1SDR08030	EXEP0804	C	IP65	80A ⚡ II2GD Ex de IIC T6 Gb Ex tb IIIC T80°C Db	-40°C to +40°C
		4P+Aux	EXZ1SDR08040				80A ⚡ II2GD Ex de IIC T5 Gb Ex tb IIIC T95°C Db	-40°C to +55°C
	180A	3P+Aux	EXZ1SDR18030	EXEP1804	D	IP65	180A ⚡ II2GD Ex de IIC T5 Gb Ex tb IIIC T95°C Db	-40°C to +40°C
		4P+Aux	EXZ1SDR18040				180A ⚡ II2GD Ex de IIC T4 Gb Ex tb IIIC T130°C Db	-40°C to +55°C

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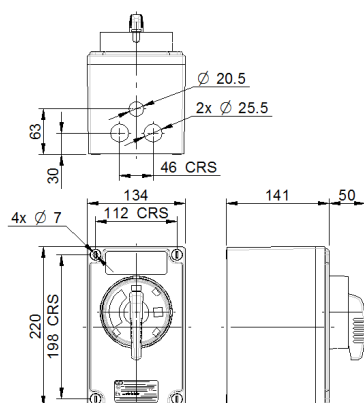
Technical Specification - Zone 1, 2, 21 and 22 EXe

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

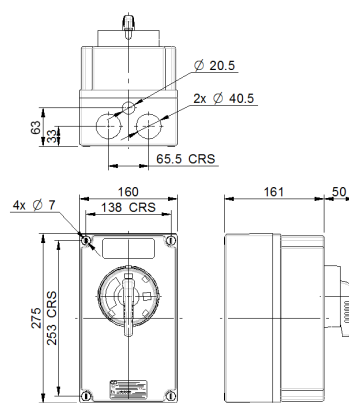
Zone 1, 2, 21 and 22 EX 'e'									
Application	Sym.	Unit	Category	Main Contacts				Aux. Contacts	
				25A	40A	80A	180A	Category	Aux.
Rated thermal current	I_{the}	A		25	40	80	180		10
Rated insulation voltage	U_i	V		690	690	690	690		690
Rated current		A	AC3 (230V)	25	40	80	180	AC15 (250V)	10
			AC3 (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 ²	-	2x4	2x10	2x25	2x95		2x1.5
Tightening Torque (Nm)			-	2.5	2.5	3.5	8.5		2.5
Terminal Type	-								

Zone 1, 2, 21 and 22 EXe Dimensions

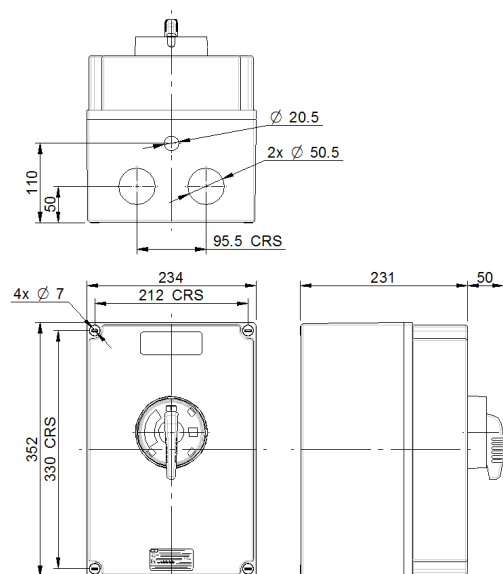
Enclosure A



Enclosure B



Enclosure C



Enclosure D

