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1922-2022

APPROVED SWITCHGEAR FOR TFL & LUL

Craig & Derricott offer a new range of enclosed switch-disconnectors, fire rated isolators and automatic transfer switches that have been designed for safe isolation and to ensure power is maintained to vital services, for use on sub-surface and surface railway station installations. They meet the stringent requirements of TFL (LU) fire regulations and international low voltage switchgear standards.



ENCLOSED SWITCHGEAR

Rated 25A to 800A, this range of switchgear can be supplied in either IP65 die-cast aluminium, stainless steel or sheet steel enclosures and are all generously sized to allow for easy cable connection.



F400 FIRE RATED ISOLATORS

These 20A to 630A F400 Fire Rated product range is supplied in either IP65 die-cast aluminium or hinged door sheet steel enclosures, coated in a protective red powder coat finish. The interior switches are designed specifically for installations where the supply must be maintained for 2 hours at 400°C.



AUTOMATIC TRANSFER SWITCHES

Supplied in IP65 sheet steel enclosures, this range of ATS allow automatic connection of a secondary electrical supply to a load upon failure of the primary supply. At the core of each system is a four-pole intelligent transfer switch, providing all the essential requirements for automatically switching to a replacement power source.

Technical Data Sheet

TFL (LU) Switchgear Range

CDPD148
Issue 4

General Description

Following the London Kings Cross fire of 1987, the resulting Fennell enquiry prompted the introduction of additional fire precautions for 'Sub-surface Railway Stations'. These additional requirements were introduced under section 12 of the Fire Precautions Act 1971, and since then have been known simply as Section 12 regs. These regulations have been revoked and partly replaced with:- 'The Fire Precautions (Sub-surface Railway Stations) (England) Regulations 2009.

This range of enclosed Switch Disconnectors have all been designed for the isolation and distribution of electrical supplies, for use on sub-surface and surface railway station installations. They meet the stringent requirements of TFL (LU) fire regulations and international low voltage switchgear standards. Standards Applied: BS EN 60947-3, BS EN 12101-3, BS EN 60529, S1069, S1085, S1109, Directive 2006/42/EU, Directive 2014/35/EU, Directive 2014/30/EU.

Die-Cast Aluminium & Stainless Steel Enclosed Switchgear

This range of approved by TFL (LU) switch-disconnectors are available in 25A & 40A ranging from 2P to 6P+2EB Aux. Supplied in either IP65 Die-Cast Aluminium enclosures finished in Light Grey (RAL 7035) LU S1085 compliant paint or IP65 stainless steel Grade 304 enclosures in a natural brushed finish.

Each unit is supplied with earthing points on both the lid and base, plus an external stud for earth bonding. The die-cast handle is padlockable in both 'Off' and 'On' positions. Optional security head fixing screws and external mounting brackets are available on request. Engraved traffolyte labels in various colours can be supplied attached to the side of the enclosure or supplied loose for fitting adjacent to the isolator. To order spare switch interiors, add suffix '/INT' to the part number e.g. DCG252/LUL2/INT

'NL' = Unswitched neutral | 'EB' = Early break auxiliary contacts

Image	Rating	Format	Cat. No.	Encl. Size	Encl. Material	IP Rating	Encl. Colour
	25A	2P	DCG252/LUL2	FA 150 x 100 x 122.5	Die-Cast Aluminium	IP65	LU S1085 Compliant Paint Finish: Light Grey (RAL 7035)
		3P	DCG253/LUL2				
		3P+2EB Aux	DCG253EB/LUL2				
		3P+NL	DCG253NL/LUL2				
		4P	DCG254/LUL2				
		6P	DCG256/LUL2				
	40A	2P	DCG402/LUL2	FB 220 x 150 x 134	Die-Cast Aluminium	IP65	LU S1085 Compliant Paint Finish: Light Grey (RAL 7035)
		3P	DCG403/LUL2				
		3P+2EB Aux	DCG403EB/LUL2				
		3P+NL	DCG403NL/LUL2				
		4P	DCG404/LUL2				
		6P	DCG406/LUL2				
	25A	2P	DS252/LUL2	A 135 x 100 x 80	Stainless Steel Grade 304	IP65	Natural Brushed Finish
		3P	DS253/LUL2				
		3P+2EB Aux	DS253EB/LUL2				
		3P+NL	DS253NL/LUL2				
		4P	DS254/LUL2				
	40A	2P	DS402/LUL2	B 175 x 130 x 100	Stainless Steel Grade 304	IP65	Natural Brushed Finish
		3P	DS403/LUL2				
		3P+2EB Aux	DS403EB/LUL2				
		3P+NL	DS403NL/LUL2				
		4P	DS404/LUL2				

Accessories

Cat. No.	Description	Cat. No.	Description
SS/SEC	Set of 4 off security lid fixing screws for stainless steel enclosures	EFA	External Fixing Feet for 25A Stainless Steel
SS/SEC/TOOL	Security screwdriver bit for stainless steel enclosures	EFB	External Fixing Feet for 40A Stainless Steel
DC/SEC	Set of 4 off security lid fixing screws for die-cast aluminium enclosures	EFD25	External Fixing Feet for 25A Die-Cast Aluminium
DC/SEC/TOOL	Security screwdriver bit for die-cast aluminium enclosures	EFD40	External Fixing Feet for 40A Die-Cast Aluminium

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Sheet Steel Enclosed Switchgear

A range of approved by TFL (LU) switch-disconnectors and fuse combination units. Supplied in IP65 sheet steel hinged door enclosures, the range comes standard in a three phase and switched neutral configuration and is generously sized to allow easy cable connection. Current ratings of 40A- 800A for switch disconnectors and 32A- 630A for fuse combination units are offered in this style.

Each enclosure has removable top and bottom gland plates and a metal anodised aluminium operating handle lockable in both ON and OFF positions. These are also interlocked with the switching device in the ON position preventing unsafe access. All operating handles accept 3 padlocks with a 6.3mm shackle, optional castell locking available on request. For Castell lock option, add suffix 'CL' to the Cat. No. e.g. DCG00403N/LUL2/CL

The switch-disconnector range is fire rated for F200, designed specifically for installations where the supply must be maintained for 120 mins at 200°C

'N' = switched neutral (Early make, late break)

Switch-Disconnectors							
Image	Rating	Format	Cat. No.	Encl. Size	Encl. Material	IP Rating	Encl. Colour
	40A	3P+N	DCG00403N/LUL2	1	Sheet Steel	IP65	LU S1085 Compliant Paint Finish: Light Grey (RAL 7035)
	63A	3P+N	DCG00633N/LUL2	1			
	80A	3P+N	DCG00803N/LUL2	3			
	100A	3P+N	DCG01003N/LUL2	3			
	125A	3P+N	DCG01253N/LUL2	4			
	160A	3P+N	DCG01603N/LUL2	4			
	200A	3P+N	DCG02003N/LUL2	5			
	250A	3P+N	DCG02503N/LUL2	7			
	315A	3P+N	DCG03153N/LUL2	8			
	400A	3P+N	DCG04003N/LUL2	8			
	630A	3P+N	DCG06303N/LUL2	10			
	800A	3P+N	DCG08003N/LUL2	10			
Switch-Disconnectors							
Image	Rating	Format	Cat. No.	Encl. Size	Encl. Material	IP Rating	Encl. Colour
	32A	3P+N	SFDCG00323N/LUL2	2	Sheet Steel	IP65	LU S1085 Compliant Paint Finish: Light Grey (RAL 7035)
	63A	3P+N	SFDCG00633N/LUL2	2			
	100A	3P+N	SFDCG01003N/LUL2	4			
	160A	3P+N	SFDCG01603N/LUL2	4			
	200A	3P+N	SFDCG02003N/LUL2	6			
	250A	3P+N	SFDCG02503N/LUL2	6			
	315A	3P+N	SFDCG03153N/LUL2	9			
	400A	3P+N	SFDCG04003N/LUL2	9			
	630A	3P+N	SFDCG06303N/LUL2	11			

Accessories

Add-on auxiliary blocks are available for all hinged door products. All auxiliaries are supplied as 1 N/O+1 N/C pair. All N/O auxiliary contacts are early break with respect to the main poles when switching from 'On' to 'Off'

Image	Cat. No.	Description
	SAUXKITA	Auxiliary Contact for 32A- 160A Fuse Combination Units (Type B)
	SAUXCO	Auxiliary Contact for 40A- 200A Switch-Disconnectors (Type A)
	SAUXKITC	Auxiliary Contact for 200A- 400A Fuse Comb. Units & 400A- 800A Switch-Disconnectors (Type C)
	SAUXKITB	Auxiliary Contact for 250A Switch-Disconnectors (Type C)
	SAUXKITD	Auxiliary Contact for 630A Fuse Comb. Units (Type B)

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F400 Fire Rated Enclosed Switchgear

The 20A to 630A F400 Fire Rated product range is supplied in either an IP65 die-cast aluminium enclosure or a hinged door sheet steel enclosure, coated in a protective Traffic Red (RAL3020) powder coat finish. The die-cast aluminium products, 20A-40A, are fitted with a black powder coated die-cast aluminium handle while the sheet steel enclosed products, 63A and above, are fitted with a highly durable aluminium operating handle. All units from this range feature the ability to be padlocked in both the OFF and ON positions as standard.

The interior switches are constructed from a high temperature grade thermoset material, designed specifically for installations where the supply must be maintained for 2 hours at 400°C. All units are suitable for enhanced fire rated cables. When using enhanced fire resistant power cables, please check gland sizes to suit the required product. All F400 products are suitable for F300 applications.

Stainless steel 316L enclosures are available on request for the hinged door sheet steel product range. Replace 'R' with 'S' in the catalogue number, e.g. F400SDS0633NL/LUL2.

Factory fitted auxiliaries on the 20A-125A are fully rated and fire rated to F400. Non-fire rated auxiliaries are available for the 160A-630A hinged door sheet steel products on request, add 'AUX' to the catalogue number, e.g. F400SDR01604/LUL2/AUX

'NL' = Unswitched neutral | 'EB' = Early break auxiliary contacts

Image	Rating	Format	Cat. No.	Encl. Size	Encl. Material	IP Rating	Encl. Colour
	20A	2P	F400DDR00202/LUL2	FA 150 x 100 x 122.5	Die-Cast Aluminium	IP65	LU S1085 Compliant Paint Finish: Traffic Red (RAL 3020)
		3P	F400DDR00203/LUL2				
		3P+2E/B Aux	F400DDR00203EB/LUL2				
		3P+NL	F400DDR00203NL/LUL2				
		4P	F400DDR00204/LUL2				
		6P	F400DDR00206/LUL2				
		6P+2E/B Aux	F400DDR00206EB/LUL2				
	25A	2P	F400DDR00252/LUL2	FA 150 x 100 x 122.5			
		3P	F400DDR00253/LUL2				
		3P+2E/B Aux	F400DDR00253EB/LUL2				
		3P+NL	F400DDR00253NL/LUL2				
		4P	F400DDR00254/LUL2				
		6P	F400DDR00256/LUL2				
		6P+2E/B Aux	F400DDR00256EB/LUL2				
	40A	2P	F400DDR0040T2/LUL2	FB 220 x 150 x 134			
		3P	F400DDR0040T3/LUL2				
		3P+2E/B Aux	F400DDR0040T3EB/LUL2				
		3P+NL	F400DDR0040T3NL/LUL2				
		4P	F400DDR0040T4/LUL2				
		6P	F400DDR0040T6/LUL2				
		6P+2E/B Aux	F400DDR0040T6EB/LUL2				
	63A	3P+NL	F400SDR00633NL/LUL2	F1 300 x 300 x 150			
		3P+2E/B Aux	F400SDR00633EB/LUL2				
	80A	3P + 2E/B Aux	F400SDR00803EB/LUL2	F2 400 x 300 x 200			
		4P	F400SDR00804/LUL2				
	125A	3P	F400SDR01253/LUL2	F4 500 x 300 x 250			
		3P + 2E/B Aux	F400SDR01253EB/LUL2				
		4P	F400SDR01254/LUL2				
	160A	4P	F400SDR01604/LUL2	F5 600 x 500 x 200			
	200A	4P	F400SDR02004/LUL2	F5 600 x 500 x 200			
	250A	4P	F400SDR02504/LUL2	F5 600 x 500 x 200			
	315A	4P	F400SDR03154/LUL2	F6 800 x 600 x 200			
	400A	4P	F400SDR04004/LUL2	F6 800 x 600 x 200			
	630A	4P	F400SDR06304/LUL2	F8 1000 x 600 x 300			

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Technical Specification

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

Die-Cast Aluminium Switchgear					
Application	Sym.	Unit	Category	25A	40A
Rated thermal current	$I_{t_{he}}$	A		25	40
Rated Insulation voltage	U_i	V		690	690
Rated Impulse voltage	U_{imp}	kV		6	6
Rated operational current (3 phase AC 50/60Hz)	I_e	A	415V- AC23A	25	40
			690V- AC23A	-	-
Rated operational power	P_e	kW	415V	11	18.5
Conditional short circuit current	Fuse gG	kA / Fuse (A)	415V	50 / 32	50 / 40
			690V	40 / 32	-
Short circuit making capacity (1 sec)	I_{cm}	kA	Peak value	-	-
Short circuit withstand (1 sec)	I_{cw}	kA	RMS value	-	-
Recommended connecting capacity			Terminal type		
		mm²	Flexible cable	6	10
		mm²	Rigid cable	10	16
		mm	Stud/Cu Palm Width	-	-
		Nm	Tightening torque	1.2	2
Stainless Steel Switchgear					
Application	Sym.	Unit	Category	25A	40A
Rated thermal current	I_{the}	A		25	40
Rated insulation voltage	U_i	V		690	690
Rated impulse voltage	U_{imp}	kV		6	6
Rated operational Current (3 phase AC 50/60Hz)	I_e	A	400V- AC23A	21	29
Rated operational power	I_e	kW	230V	3.7	6
	P_e		400V	11	18.5
Rated short time withstand current	I_{cw}	A	1 sec	500	600
Max. fuse size for short circuit protection	gG	kA	10kA	35	40
			25kA	32	32
			50kA	32	32
Recommended connecting capacity		-	Terminal type		
		mm²	Flexible cable	6	16
		mm²	Rigid cable	10	25
		Nm	Tightening torque	1.2	1.2

Technical Data Sheet

TFL (LU) Switchgear Range

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Technical Specification

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

Sheet Steel Switch-Disconnectors																
Application	Sym	Unit	Category	40	63	80	100	125	160	200	250	315	400	630	800	
Rated thermal current	I _{the}	A		40	63	80	100	125	160	200	250	315	400	630	720	
Rated insulation voltage	U _i	V		690	690	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
Rated impulse voltage	U _{imp}	kV		6	6	8	8	8	8	8	12	12	12	12	12	
Rated operational current	I _e	A	400V- AC23A	35.1	48	56	100	112	128	128	250	315	400	630	720	
Rated operational power	P _e	kW	400 / 415V- AC23A	8.5	25	30	59	63	75	75	132	160	200	315	355	
Short circuit making capacity	I _{cm}	kA	Peak value	2.7	2.9	3.0	3.7	4.0	5.0	5.0	35	35	65	80	80	
Short circuit withstand (1sec)	I _{cw}	kA	rms value	1.1	1.3	2	2.6	2.8	3.0	3.0	8	8	17	17	17	
Min. mechanical endurance		-	Operations (10 ³)	250	250	50	50	50	50	50	16	16	10	10	10	
Min. electrical endurance		-	415V- at 0.65 pf	-	-	-	-	-	-	-	1,000	1,000	1,000	500	500	
Connecting capacity		-	Terminal type													
		mm ²	Min/Max	2.5/25	2.5/25	-/50	-/50	-/70	-/95	-/95	120	2x150	2x150	2x185	2x240	
		mm	Stud/Cu palm width	-	-	-	-	-	8x25	8x25	10x30	10x30	10x30	10x30	12x40	12x40
		Nm	Tightening torque	1.3	1.3	5	5	5	5	12	12	25	25	25	40	40
Sheet Steel Fuse Combination Units																
Application	Sym	Unit	Category	32	63	100	125	160	200	250	315	400	630			
Rated thermal current	I _{the}	A		32	63	100	125	160	200	250	315	400	630			
Rated insulation voltage	U _i	V		750	750	750	750	750	750	750	750	750	750			
Rated impulse voltage	U _{imp}	kV		12	12	12	12	12	12	12	12	12	12			
Rated operational current	AC	I _e	A	415V- AC23A	32	63	100	125	160	200	250	315	400	630		
	DC		A	220V- DC23A	-	-	100	125	160	200	250	315	400	630		
Rated operational power @ 0.75pf	P _e	kW	400/415- AC23A	17.2	33.9	53.9	67.3	86.2	107.8	134.7	169.8	215.6	339.6			
Rated making capacity (AC23A)		A	415V, 0.35 pf	320	630	1,000	1,250	1,600	2,000	2,500	3,150	4,000	6,300			
Rated breaking capacity (AC23A)		A	415V, 0.35 pf	256	504	800	1,000	1,280	1,600	2,000	2,520	3,200	5,040			
Rated Conditional (Fused) short circuit		kA	S/C current rms	80	80	80	80	80	80	80	80	80	80			
		A	back-up fuse	32	63	100	125	160	200	250	315	400	630			
Min. mechanical endurance		-	Operations	25,000	25,000	15,000	15,000	15,000	10,000	10,000	10,000	10,000	6,000			
Min. electrical endurance		-	415V- at 0.65 pf	1,500	1,500	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000			
BS fuse format				A2	A2	A4	A4	B1, B2	B1, B2	B1, B2	B1, B4	B1, B4	C1, C3			
Connecting capacity		-	Terminal type													
		mm ²	Min/Max	16	25	95	95	120	240	240	300	300	400			
		mm	Stud/Cu palm width	-	-	8x20	8x20	8x20	10x25	10x25	10x25	10x25	10x25	12x50		
		Nm	Tightening torque	2.5	2.5	10	12	16	25	30	35	45	50			

Technical Data Sheet

TFL (LU) Switchgear Range

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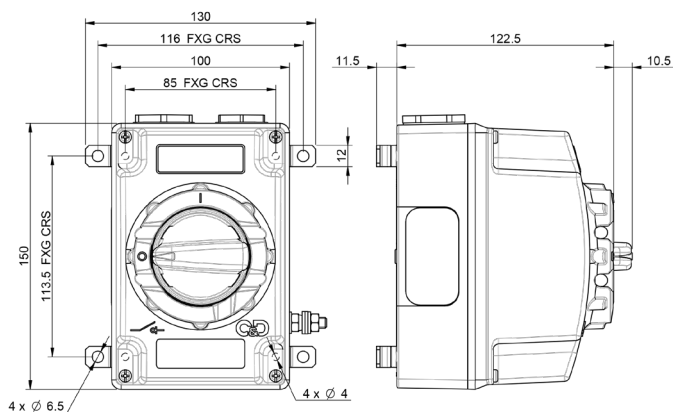
Technical Specification

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

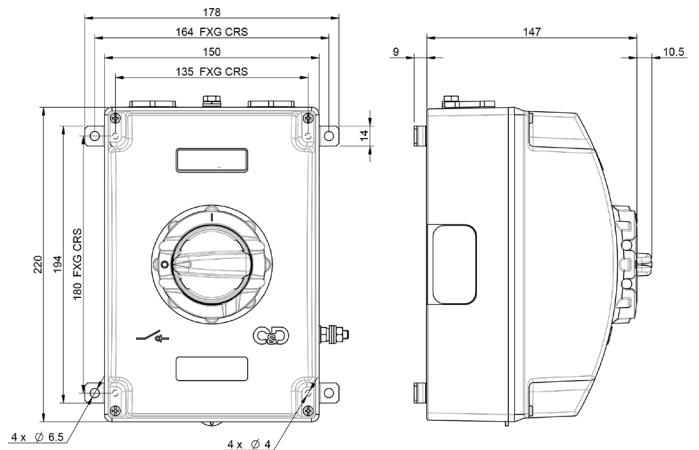
Fire Rated Switchgear															
Application	Sym.	Unit	Category	20A	25A	40A	63A	80A	125A	160A	200A	250A	315A	400A	630A
Rated thermal current	$I_{t_{he}}$	A		20	25	40	63	80	125	160	200	250	315	400	630
Rated Insulation voltage	U_i	V		690	690	690	690	690	690	1000	1000	1000	1000	1000	1000
Rated Impulse voltage	U_{imp}	kV		6	6	6	6	6	6	12	12	12	12	12	12
Rated operational current (3 phase AC 50/60Hz)	I_e	A	415V- AC23A	20	25	40	63	80	100	160	200	250	315	400	630
			690V- AC23A	-	-	-	-	-	-	160	200	250	315	350	350
Rated operational power	P_e	kW	415V	9.5	11	18.5	30	40	55	90	110	132	200	200	315
Conditional short circuit current	Fuse gG	kA/Fuse (A)	415V	50/32	50/32	50/40	50/63	50/150	50/200	50/160	50/200	50/250	50/315	50/400	50/630
			690V	40/32	40/32	-	-	50/63	50/63	50/160	50/200	50/250	50/315	50/400	50/630
Short circuit making capacity	I_{cm}	kA	Peak value	-	-	-	-	-	-	35	35	35	65	65	80
Short circuit withstand	I_{cw}	kA	RMS value	-	-	-	-	1.5	1.5	8	8	8	17	17	17
Recommended connecting capacity			Terminal type												
		mm ²	Flexible cable	6	6	10	10	50	50	95	95	120	2/150	2/150	2/185
		mm ²	Rigid cable	10	10	16	25	35	50	95	95	120	2/150	2/150	2/185
		mm	Stud/Cu Palm Width	-	-	-	-	M10/21	M10/21	M10/30	M10/30	M10/30	M10/30	M10/40	M10/40
		Nm	Tightening torque	1.2	1.2	2	2	12	12	30	30	30	30	30	30

LU Die-Cast Aluminium Switchgear Dimensions

Enclosure FA



Enclosure FB



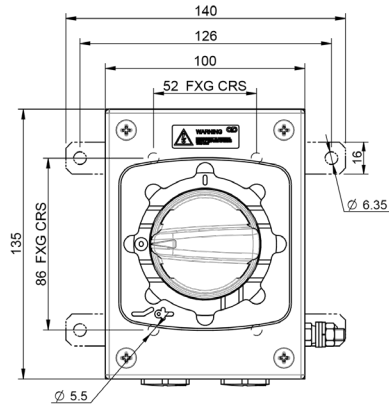
Technical Data Sheet

TFL (LU) Switchgear Range

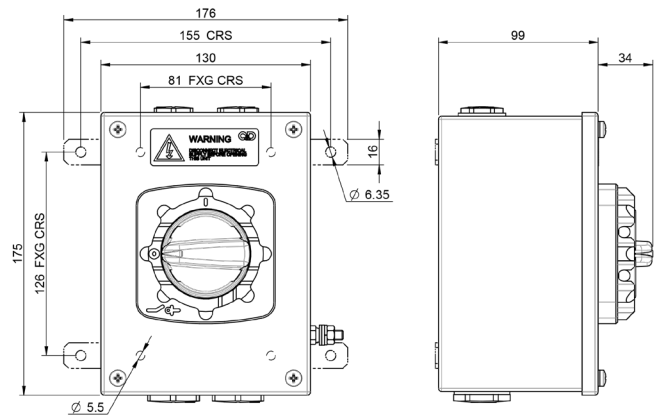
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LU Stainless Steel Switchgear Dimensions

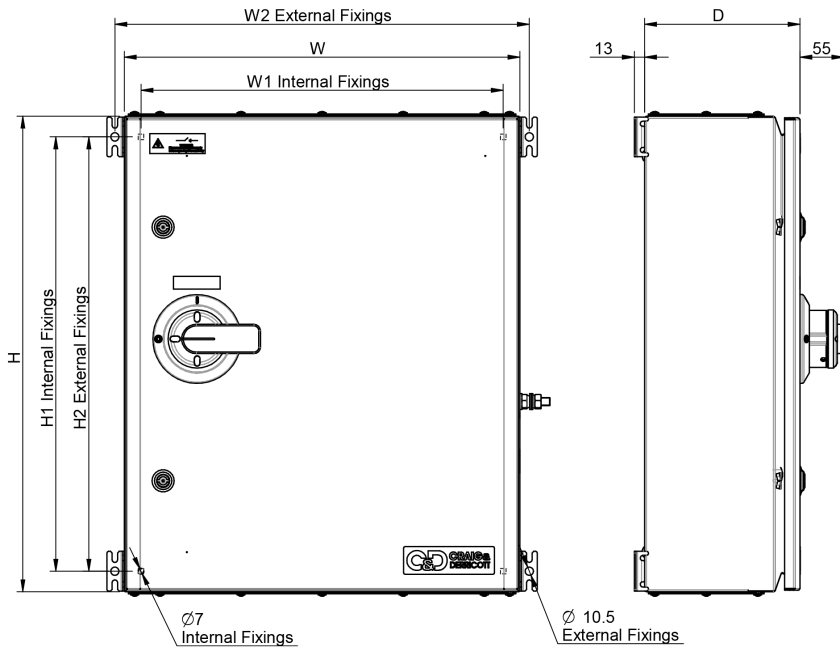
Enclosure A



Enclosure B



LU Sheet Steel Switchgear Dimensions



Encl Size	Dimensions (mm)						
	H	W	D	H1	W1	H2	W2
1	300	300	150	248	258	248	324
2	400	400	200	348	358	348	424
3	400	300	150	348	258	348	324
4	500	400	200	448	358	448	424
5	600	400	200	548	358	548	424
6	600	600	300	548	558	548	624
7	600	500	200	548	458	548	524
8	800	600	200	748	558	748	624
9	800	600	300	748	558	748	624
10	1000	600	300	948	558	948	624
11	1000	800	300	948	758	948	824

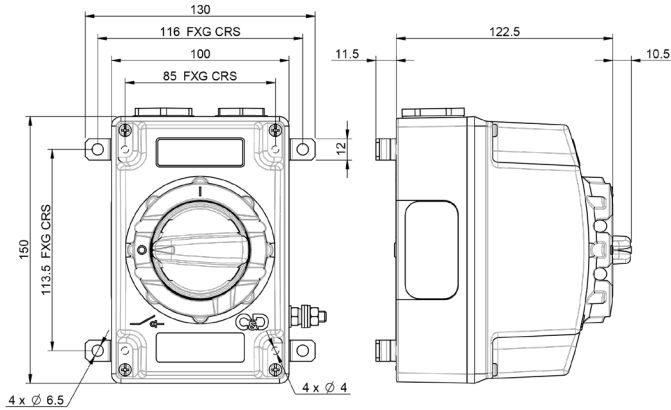
Technical Data Sheet

TFL (LU) Switchgear Range

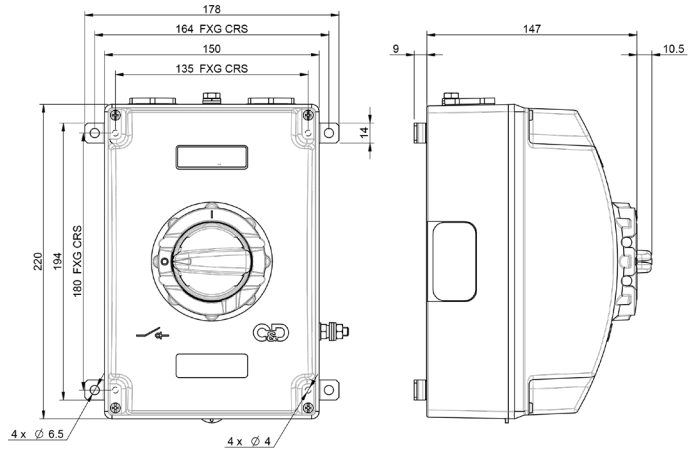
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LU Fire Rated Switchgear Dimensions

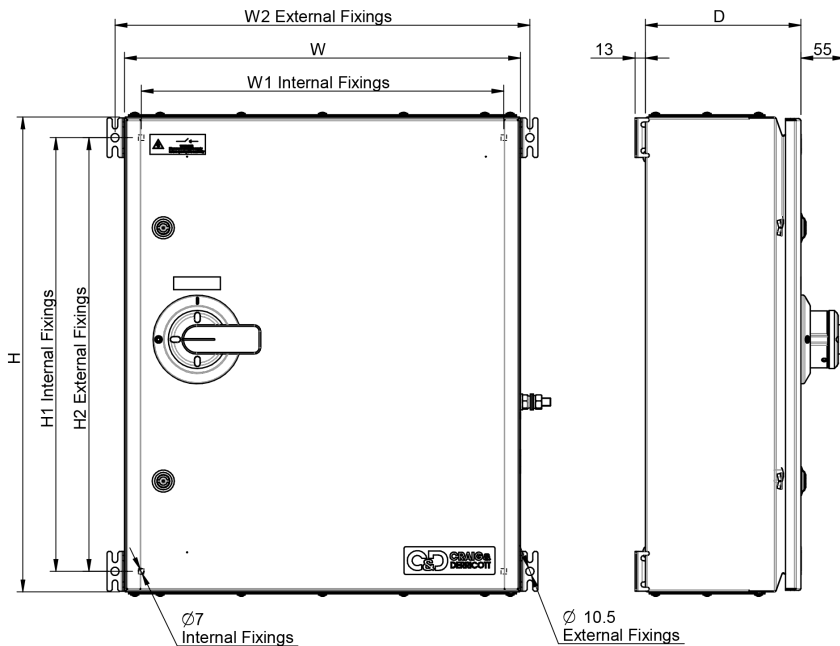
Enclosure FA



Enclosure FB



Enclosures F1-F8



Encl Size	Dimensions (mm)						
	H	W	D	H1	W1	H2	W2
F1	300	300	150	248	258	248	324
F2	400	300	200	348	258	348	324
F4	500	300	250	448	258	448	324
F5	600	500	200	548	458	548	524
F6	800	600	200	748	558	748	624
F8	1000	600	300	948	558	948	624

Technical Data Sheet

TFL LU Automatic Transfer Switches (ATS)

TFL LU Automatic Transfer Switches (ATS)

At the core of each system is a four-pole ABB TruONE transfer switch. Rated 230V or 400V AC the ATS's provide all the essential requirements for automatically switching to a replacement power source. Units are rated from 32A to 250A with a rated frequency of 50/60Hz

The Single or Three-phase ATS units allow automatic connection of a secondary electrical supply to a load upon failure of the primary supply.

The Bypass function isolates the ATS by bypassing the 'S1' supply or (in the case of dual-line versions) the 'S2' supply directly to the outgoing load, enabling essential maintenance. The 'S1' supply may be bypassed without a break in supply in accordance with life safety recommendations. The key advantage is that both the 'S1' supply and 'S2' supply to the load can be maintained whilst service and repairs can be carried out on the ATS unit.

Supplied in sheet steel enclosures up to IP65 with a light grey (RAL 7035) paint finish, each enclosure comes standard with a removable gland plate(s). Stainless steel options are available on request. Each ATS unit comes standard with incoming isolators for easy isolation. Volt-Free Status Relays are included alongside a Modbus communication module within the ATS unit in order to connect to the BMS (building management system) and/or life safety systems installed within the building.

The main LED indicator lights show the status of the supplies. A test switch is supplied with a set of 2 keys to allow the energisation and commissioning of the ABB TruONE transfer switch whilst the system is in 'Bypass' mode. A mains return inhibit feature is accessible through the TruONE HMI.

Incoming isolators and the bypass arrangement are separated from each other and from the transfer switch using rigid, metallic barriers resulting in Form 4, type 2 separation.

Applied standards: BS EN IEC 60947-4, BS EN IEC 60947-6-1, BS 8519:2020, S1069, S1085, S1109

TFL LU Single Line Maintenance Bypass ATS with incoming switches									
Rating	Cat. No.		Encl. size (mm)			Cable Capacity	Cable Entry	IP Rating	Encl Material
AC33	Single Phase	Three Phase	H	W	D				
32A	ATS03225234	ATS03245234	800	600	300	16mm²	Bottom	IP65	Sheet Steel Light Grey RAL7035
45A	ATS04525234	ATS04545234	800	600	300				
63A		ATS06345234	1200	800	300	2x 70mm²			
100A		ATS10045234	1200	800	300				
160A		ATS16045434	1800	1000	400	2x 240mm²	Top	IP55	
250A		ATS25045434	1800	1000	400				

TFL LU Dual Line Maintenance Bypass ATS with incoming switches									
Rating	Cat. No.		Encl. size (mm)			Cable Capacity	Cable Entry	IP Rating	Encl Material
AC33	Single Phase	Three Phase	H	W	D				
32A	ATS03225244	ATS03245244	800	600	300	16mm²	Bottom	IP65	Sheet Steel Light Grey RAL7035
45A	ATS04525244	ATS04545244	800	600	300				
63A		ATS06345244	1200	800	300	2x 70mm²			
100A		ATS10045244	1200	800	300				
160A		ATS16045444	1800	1000	400	2x 240mm²	Top	IP55	
250A		ATS25045444	1800	1000	400				

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www.craigandderricott.com

Craig & Derricott Ltd

Hall Lane, Walsall Wood,

Walsall, West Midlands WS9 9DP

t: +44(0)1543 375541 f: +44(0)1543 361619

e: sales@craigandderricott.com