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Isolation Equipment

- Moulded, Deep Drawn& Stainless Enclosures
- IP41 & IP65 Enclosures
- 'ATEX C' Zone 22
- Fire Rated Enclosures
- Load Break Switches
- Accessories



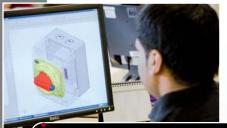




Introduction & **Contents**



Contact us



Develop the design



Manufacture product



Rapid delivery



Craig & Derricott have been at the forefront of switch disconnector design for more than 20 years. During that time our products have earned a well deserved reputation for quality and reliability.

Building on this, the i-switch range combines modern styling within a cost effective design to ensure easy installation and maximum safety in use.

Additionally the i-switch range broadens our enclosure offerings to include:

- IP41 sealed versions of our enclosed 32 to 1000A switch disconnector and fuse combination switches
- Deep drawn sheet steel and stainless IP65 sealed enclosures for our switch disconnectors and changeover switches rated 20-63A

Switchgear manufacturers and OEMs looking for switch disconnectors, fuse combination switches and changeover switches can now select from our range of isolators and accessories designed to meet a wide range of application requirements.

This catalogue covers our range of standard i-switch products. However, this is only a small part of our capability. As a UK based Design & Manufacturing business we pride ourselves on being able to offer bespoke & special versions of our products in one off or larger quantities delivered in short lead times. Simply contact our sales team to discuss your requirements and take advantage of our bespoke mi-switch service for "make to order" products.

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Moulded Plastic

Enclosure (20A-63A)

General Description

Switchgear housed in moulded plastic enclosures provides 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 to IP65 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

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All items allow for the insertion of up to three padlocks in the 'Off' position. Standard hasp diameter Ø6.4



An option to allow padlocking in the 'On' position is available to special order.

Switch Disconnectors (O-I) — a—

Catalogue Numbers

Rating	Format	Interior Switch Product Range	Cat. No.	Enclosure Size *				
	2P	CS25	SDP252					
	3P	CS25	SDP253					
20A /	3P+N**	CS25	SDP253N	A				
25A	3P+2 EB Aux	CS25	SDP253EB	A				
	6P	GX20	SDP256					
	6P+2 EB Aux	GX20	SDP256EB					
	2P	CS40R	SDP402					
	3P	CS40R	SDP403					
40A	3P+N**	CS40R	SDP403N	$\left[\begin{array}{c} B \end{array}\right]$				
107	3P+2 EB Aux	CS40R	SDP403EB					
	6P	GX40	SDP406					
	6P+2 EB Aux	GX40	SDP406EB					
	2P	CS63	SDP632					
63A	3P	CS63	SDP633	В				
037	3P+N**	CS63	SDP633N					

^{**} switched neutral (Early make, late break)

3P+2 EB Aux

Changeover Switch Disconnectors (I-O-II)

Rating	Format	Interior Switch Product Range	Cat. No.	Enclosure Size *
	2P	GX20	SCODP252	
20A	3P	GX20	SCODP253	A
	4P	GX20	SCODP254	
	2P	GX40	SCODP402	
40A	3P	GX40	SCODP403	В
	4P	GX40	SCODP404	

CS63

SDP633EB

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.

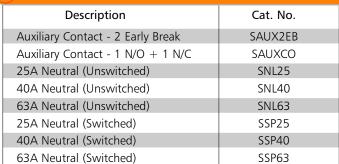




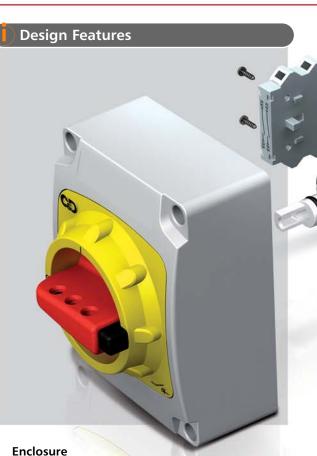
Moulded Plastic

Enclosure (20A-63A)









Exploded view showing a type CS interior with Auxiliary options.

Isolating Switches

2&3 Pole Type **CS** base mounted

(Accepts add-on Aux blocks & neutral pole)

6 Pole Type **GX** base mounted

(also available with 2 E/B Aux)

Earthing

Two earth continuity terminals are provided in the base of each enclosure.

Material PC/ABS 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. Both Sizes - 2 x M20 knock-outs

on back face

Cover screws Stainless Steel (Captive)
Fixings Outside IP65 sealed cavity







Moulded Plastic

Enclosure (20A-63A)

Technical Specification

Isolator Interiors

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

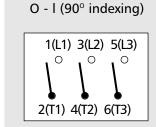
				Rating							
Application	Sym.	Unit	Category	16A	20/.	25A	32A	40)A	63A	80A
Switch Product Range	-	-	-	CS16	GX20	CS25	CS32	GX40	CS40R	CS63	CS80
Rated thermal current	I _{the}	Α		16	20	25	32	40	40	63	80
Rated Insulation voltage	Ui	V		690	690	690	690	690	690	690	690
Rated impulse voltage	U_{imp}	kV		6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Datad an austicus I manner			380/440V - AC23	7.5	7.5	11.0	15.0	18.5	15.0	25.0	30.0
Rated operational power (3 phase AC)		kW	500V - AC23	9.0	7.5	15.0	15.0	15.0	15.0	30.0	37.0
(5 priuse / te)			600V - AC23	9.0	7.5	15.0	15.0	15.0	15.0	30.0	30.0
Rated short time withstand current (1 sec)	I _{cw}	А		400	250	500	600	800	600	1300	1400
M (' () () ()			10kA	35	20	35	32	40	40	80	80
Max. fuse size for short circuit protection (gG characteristic)		Α	25kA	32	16	32	32	35	32	63	63
protection (gd characteristic)			50kA	32	-	32	32	-	32	63	63
		-	Terminal type	Ë	*	Ë	Ë	*	Ë	Ë	Ë
		mm²	Flexible type	6.0	2.5 x 2	6.0	6.0	6.0 x 2	6.0	16.0	16.0
Connecting capacity		mm²	Rigid cable	10.0	2.5 x 2	10.0	10.0	10.0 x 2	10.0	25.0	25.0
		Nm	Tightening torque	1.2	1.0	1.2	1.2	1.0	1.2	1.2	1.2

Auxiliary Contacts

Data supplied against tests to IEC/BS EN 60947-5-1

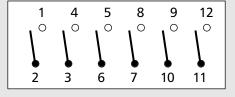
Application	Sym.	Unit	Rating	
Rated Insulation Voltage	Ui	V	690	
Rated Thermal Current		I _{th}	А	10
	110V		А	8
Rated operational current (AC15)	220 - 240V	l _e		8
Nated Operational Current (AC13)	380 - 400V			3
	660 - 690V			1
Max. conductor size		-	mm²	1.5
Tightening Torque		-	Nm	0.6

Terminal Markings



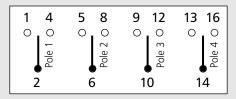
2 & 3 Pole

O - I (90° indexing)



6 Pole

I - O - II (90° indexing)



C/O (4 Pole shown)





Deep Drawn Steel

Enclosure (20A-63A)

General Description

Switchgear housed in steel enclosures provides the user with a robust and cost effective assembly 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 to IP65 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. Standard hasp diameter Ø6.4



An option to allow padlocking in the 'On' position is available to special order.

Switch Disconnectors (O-I) —/q—

Catalogue Numbers								
Rating	Format	Interior Switch Product Range	Cat. No.	Enclosure Size 🛣				
	2P	CS25	SDMG252					
	3P	CS25	SDMG253					
20A /	3P+N**	CS25	SDMG253N	A				
25A	3P+2 EB Aux	CS25	SDMG253EB	A				
	6P	GX20	SDMG256					
	6P+2 EB Aux	GX20	SDMG256EB					
	2P	CS40R	SDMG402					
	3P	CS40R	SDMG403	В				
40A	3P+N**	CS40R	SDMG403N					
707	3P+2 EB Aux	CS40R	SDMG403EB					
	6P	GX40	SDMG406					
	6P+2 EB Aux	GX40	SDMG406EB					
	2P	CS63	SDMG632					
63A	3P	CS63	SDMG633	В				
UJA	3P+N**	CS63	SDMG633N					
	3P+2 EB Aux	CS63	SDMG633EB					

^{**} switched neutral (Early make, late break)

Changeover Switch Disconnectors (I-O-II) — a—

Rating	Format	Interior Switch Product Range	Cat. No.	Enclosure Size 🛣
	2P	GX20	SCODMG252	
20A	3P	GX20	SCODMG253	Α
	4P	GX20	SCODMG254	
	2P	GX40	SCODMG402	
40A	3P	GX40	SCODMG403	В
	4P	GX40	SCODMG404	

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.







Deep Drawn Steel

Enclosure (20A-63A)



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 Neutral (Unswitched)	SNL25					
40A Neutral (Unswitched)	SNL40					
63A Neutral (Unswitched)	SNL63					
25A Neutral (Switched)	SSP25					
40A Neutral (Switched)	SSP40					
63A Neutral (Switched)	SSP63					

Technical Specification

Isolator Interiors

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

						Rating (A)		
Application	Sym.	Unit	Category	20/	25A	40	0A	63A
Switch Product Range	-	1	-	GX20	CS25	GX40	CS40R	CS63
Rated thermal current	I _{the}	Α		20	25	40	40	63
Rated Insulation voltage	Ui	V		690	690	690	690	690
Rated impulse voltage	U_{imp}	kV		6.0	6.0	6.0	6.0	6.0
Datad an anti-national manner			380/440V - AC23	7.5	11.0	18.5	15.0	25.0
Rated operational power (3 phase AC)		kW	500V - AC23	7.5	15.0	15.0	15.0	30.0
(5 pridse Ac)			600V - AC23	7.5	15.0	15.0	15.0	30.0
Rated short time withstand current (1 sec)	I _{cw}	А		250	500	800	600	1300
NA 6 1 6 1 1 1 1			10kA	20	35	40	40	80
Max. fuse size for short circuit protection (gG characteristic)		Α	25kA	16	32	35	32	63
protection (go characteristic)			50kA	-	32	-	32	63
		-	Terminal type	*	Ë	*	Ë	Ë
		mm²	Flexible type	2.5 x 2	6.0	6.0 x 2	6.0	16.0
Connecting capacity		mm²	Rigid cable	2.5 x 2	10.0	10.0 x 2	10.0	25.0
		Nm	Tightening torque	1.0	1.2	1.0	1.2	1.2

Design Features

Enclosure

Material Sheet Steel, 1mm thick
Paint Finish Epoxy Powder Coated
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.

Isolating Switches

2&3 Pole Type **CS** base mounted

(Accepts add-on Aux blocks & neutral pole)

Type **GX** base mounted

(also available with 2 E/B Aux)

Earthing

6 Pole

Two earth continuity terminals are provided in the base of each enclosure.

Auxiliary Contacts

Data supplied against tests to IEC/BS EN 60947-5-1

Application		Sym.	Unit	Rating
Rated Insulation Voltage	Ui	V	690	
Rated Thermal Current		I_{th}	А	10
Rated operational current (AC15)	110V			8
nated operational current (AC13)	220 - 240V			8
	380 - 400V	l _e	A	3
	660 - 690V			1
Max. conductor size		-	mm²	1.5
Tightening Torque		-	Nm	0.6







Deep Drawn Stainless Steel

Enclosure (20A-63A)

General Description

Switchgear housed in stainless steel enclosures provides the user with an assembly that can be installed in the very harshest of environments. Outdoor in unprotected positions or indoor and subject to severe hygiene cleansing routines, the stainless steel i-switch range offers the ideal solution. Sealing to IP65 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. Standard hasp diameter Ø6.4



An option to allow padlocking in the 'On' position is available to special order.

Switch Disconnectors (O-I) —/q—

Catalogue Numbers								
Rating	Format	Interior Switch Product Range	Cat. No.	Enclosure Size *				
	2P	CS25	SDS252					
	3P	CS25	SDS253					
20A /	3P+N**	CS25	SDS253N	A				
25A	3P+2 EB Aux	CS25	SDS253EB	A				
	6P	GX20	SDS256					
	6P+2 EB Aux	GX20	SDS256EB					
	2P	CS40R	SDS402					
	3P	CS40R	SDS403					
40A	3P+N**	CS40R	SDS403N	$\begin{bmatrix} B \end{bmatrix}$				
707	3P+2 EB Aux	CS40R	SDS403EB					
	6P	GX40	SDS406					
	6P+2 EB Aux	GX40	SDS406EB					
	2P	CS63	SDS632					
63A	3P	CS63	SDS633	В				
UJA	3P+N**	CS63	SDS633N					
	3P+2 EB Aux	CS63	SDS633EB					

^{**} switched neutral (Early make, late break)

Changeover Switch Disconnectors (I-O-II) — a—

Rating	Format	Interior Switch Product Range	Cat. No.	Enclosure Size *
	2P	GX20	SCODS252	
20A	3P	GX20	SCODS253	A
	4P	GX20	SCODS254	
	2P	GX40	SCODS402	
40A	3P	GX40	SCODS403	В
	4P	GX40	SCODS404	

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





Deep Drawn Stainless Steel

Enclosure (20A-63A)



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 Neutral (Unswitched)	SNL25					
40A Neutral (Unswitched)	SNL40					
63A Neutral (Unswitched)	SNL63					
25A Neutral (Switched)	SSP25					
40A Neutral (Switched)	SSP40					
63A Neutral (Switched)	SSP63					

Technical Specification

Isolator Interiors

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

				Rating (A)				
Application	Sym.	Unit	Category	20/2	25A	40)A	63A
Switch Product Range	-	-	-	GX20	CS25	GX40	CS40R	CS63
Rated thermal current	I_{the}	Α		20	25	40	40	63
Rated Insulation voltage	Ui	V		690	690	690	690	690
Rated impulse voltage	U_{imp}	kV		6.0	6.0	6.0	6.0	6.0
Data da a a a a a tiana da a a a a a a a a a a a a a a a a a			380/440V - AC23	7.5	11.0	18.5	15.0	25.0
Rated operational power (3 phase AC)		kW	500V - AC23	7.5	15.0	15.0	15.0	30.0
(5 phase Ac)			600V - AC23	7.5	15.0	15.0	15.0	30.0
Rated short time withstand current (1 sec)	I _{cw}	А		250	500	800	600	1300
			10kA	20	35	40	40	80
Max. fuse size for short circuit protection (gG characteristic)		Α	25kA	16	32	35	32	63
protection (gd characteristic)			50kA	-	32	-	32	63
		-	Terminal type	*	Ë	*	Ë	Ä
		mm²	Flexible type	2.5 x 2	6.0	6.0 x 2	6.0	16.0
Connecting capacity		mm²	Rigid cable	2.5 x 2	10.0	10.0 x 2	10.0	25.0
		Nm	Tightening torque	1.0	1.2	1.0	1.2	1.2

Design Features

Enclosure
Material

Stainless Steel, Grade 304, 1mm thick

Finish Fine Grained

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.

Isolating Switches

2&3 Pole Type **CS** base mounted

(Accepts add-on Aux blocks & neutral pole)

Type **GX** base mounted

(also available with 2 E/B Aux)

Earthing

6 Pole

Two earth continuity terminals are provided in the base of each enclosure.

Auxiliary Contacts

Data supplied against tests to IEC/BS EN 60947-5-1

Application	Sym.	Unit	Rating	
Rated Insulation Voltage		Ui	V	690
Rated Thermal Current		I_{th}	А	10
Rated operational current (AC15)	110V		А	8
Nated Operational Current (AC13)	220 - 240V	le		8
	380 - 400V			3
	660 - 690V			1
Max. conductor size	-	mm²	1.5	
Tightening Torque		-	Nm	0.6





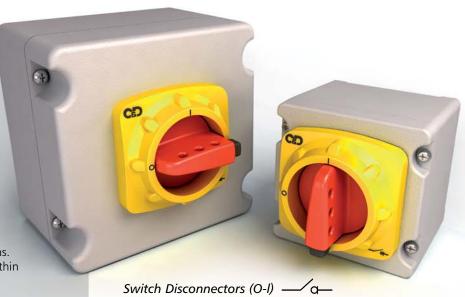


General Description

The die-cast enclosed family of switch disconnectors provides the user with a product that will withstand a good deal of abuse. With sealing to IP65 these products can safely be placed in environments where resistance to impacts, moisture and dust/dirt are a concern.

The internal switches are all base mounted and of the latest design with approvals to many international standards.

A wide cross section of formats are available including changeover options. Early break auxiliaries are available within the standard product range.



Catalogue Number

Cata	logue Nu	mbers
Rating	Format	Interior sv

Rating	Format Interior switch Cat. No product range		Cat. No.	Enclosure Size 🛣	
	2P		SDG252		
	3P		SDG253		
20A	3P+2 EB Aux	GX	SDG253EB	A	
	4P		SDG254		
	6P+2 EB Aux		SDG256EB		
	2P		SDG402		
	3P	CS	SDG403		
40A	3P+2 EB Aux	CS	SDG403EB		
	3P + SN		SDG403N		
	4P	GX	SDG404		
	6P + 2 EB Aux	-	SDG406EB		

Changeover Switch Disconnectors (I-O-II) — —

Rating	Format	Interior Switch product range	Cat. No.	Enclosure Size 🛣		
	2P		SCODG252			
20A	3P	GX	SCODG253	A		
	4P		SCODG254			
	2P		SCODG402			
40A	3P	GX	SCODG403	В		
	4P		SCODG404			

Accessories (applicable to type CS interiors only) Description Cat. No. SAUX2EB Auxiliary Contact - 2 Early Break Auxiliary Contact - 1 N/O + 1 N/C SAUXCO SNL40 40A Neutral (Unswitched) 40A Neutral (Switched) SSP40

Safety Features

Padlocking

All items allow for the insertion of up to three padlocks in the 'Off' position. Standard hasp diameter $\varnothing 6.4$



An option to allow padlocking in the 'On' position is available to special order.

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. When a padlock is inserted the enclosure lid is prevented from being removed.

Auxiliary Contacts

The 'EB' addition to the catalogue numbers denotes the inclusion of 2 early break contacts.

On the 20A rating these are factory fitted to the isolator interior. However on the 40A 2, 3 & 4 pole versions there are additional blocks available including switched and un-switched neutrals.

*



Technical Specification

Isolator Interiors

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

Application	Sym.	Unit	Category	20A	40A	
Format	-	-	-	All	2-4 pole	6 pole+2 E/B
Rated thermal current	I _{the}	Α		20	40	40
Rated Insulation voltage	Ui	V		690	690	690
Rated impulse voltage	U _{imp}	kV		6.0	6.0	-
Detect constituted according			380/440V - AC23	7.5	15.0	15.0
Rated operational power (3 phase AC)		kW	500V - AC23	7.5	15.0	-
(5 priase Ac)			600V - AC23	7.5	15.0	-
Rated short time withstand current (1 sec)	I _{cw}	А		250	1000	800
			10kA	20	40	40
Max. fuse size for short circuit protection (gG characteristic)		kW	25kA	16	32	40
protection (go characteristic)			50kA	-	32	40
		-	Terminal type	Ë	茶	*
Connecting capacity		mm²	Flexible type	2.5	6.0	10.0*
		mm²	Rigid cable	2.5	10.0	6.0 x 2
		Nm	Tightening torque	1.0	1.2	1.2

* Crimps Only

Auxiliary Contacts are all fully rated with the exception of the 40A (2,3 & 4 pole) items which accept add-on blocks rated as shown below.

Design Features

Material

Die-cast aluminium alloy LM24 (BS 1490)

Finish

Grey - RAL 7035 semi-gloss (textured)

Entries

2 x M20 on bottom face of enclosure as std. Maximum no. of possible entries:-

Enclosure size A 6 (3 top + 3 bottom)

Enclosure size B 8 (3 top + 3 bottom + 1 on both sides)

Earthing

Terminals are provided on both lid and base to allow full earth continuity to be maintained.

Mounting

All fixings are internal and outside of the IP65 sealed area. Guide channels are provided to assist with the fixing screw location.

Terminal Markings

See Page 4

Exploded View

Exploded view showing an assembly with a 20A rated interior. Note the shaft interlock moulding which is used for the safety enclosure lid interlock.



Data supplied against tests to IEC/BS EN 60947-5-1

Application		Sym.	Unit	Rating
Rated Insulation Voltage		Ui	V	690
Rated Thermal Current		I _{th}	А	10
	110V			8
Rated operational current (AC15)	220 - 240V	l _e	А	8
	380 - 400V			3
	660 - 690V			1
Max. conductor size		-	mm²	1.5
Tightening Torque		-	Nm	0.6







General Description

Craig and Derricott have been manufacturing flush mounting isolators for more than 20 years and in that time the design has been carefully modified to give features that installers and end users really need.

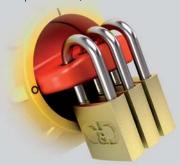
The assembly consists of a galvanised back box (complete with knockouts) and stainless steel fascia plate which carries the isolating switch and lockable handle. The fascia plate now comes in an attractive brushed finish which resists the fingerprint effect associated with highly polished surfaces.

Equally at home in kitchens, laboratories, food processing areas, hospitals and many other areas where an elegant, low projection isolation device is required.



All items allow the insertion of up to three padlocks in the 'Off' position.

It is recommended that padlocking devices with a standard hasp diameter of 6.4mm are used. This will lock the handle in the 'Off' position. (Handles lockable in the 'On' position are available to special order.)



Security

The fixing screws that secure the lid to the back box are supplied with allen key heads to give a degree of security. Fixings with a higher degree of security can be supplied to order.

Switch Disconnectors (O-I) —

Catalogue Numbers

Rating	Format	Format Interior Switch Cat. No. Product Range		Enclosure Size *	
	2P		SDFL252		
20A	3P	GX	SDFL253	A	
	4P		SDFL254		
	2P		SDFL402		
40A	3P	GX	SDFL403	В	
	4P		SDFL404	В	
	2P		SDFL632		
63A	3P	GN	SDFL633	С	
	4P		SDFL634		





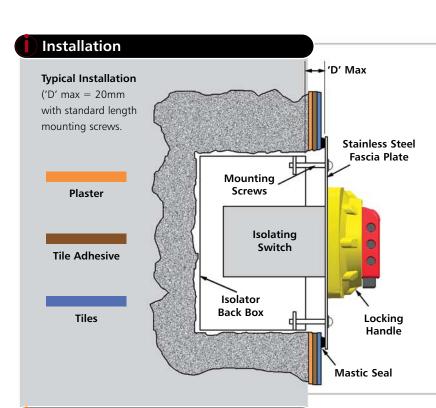


Technical Specification

Isolator Interiors

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

					Rating (A)	
Application	Sym.	Unit	Category	20A	40A	63A
Rated thermal current	I _{the}	Α		20	40	63
Rated Insulation voltage	Ui	V		690	690	690
Rated impulse voltage	U _{imp}	kV		6.0	6.0	6.0
Rated operational current (AC)		А	400/415V - AC21A	20.0	40.0	63.0
Rated operational power (AC)		kW	380/440V - AC23	7.5	18.5	30
Rated Short Time Withstand (1 sec)	U _{cw}	А		250	800	1600
Minimum mechanical endurance			Cycles	5 x 10 ⁶	5 x 10 ⁶	5 x 10 ⁶
		-	Terminal type	*		*
Connecting capacity		mm²	Flexible cable x 2	0.5 - 2.5	1.5 - 6	2.5 - 10
		mm²	Stranded Cable x 2	0.5 - 2.5	1.5 - 10	2.5 - 16
		Nm	Tightening torque	1.0	1.2	1.5



Whilst the joint between the isolating switch and the stainless steel fascia plate is factory sealed to IP65 min, when installed, the fascia to mounting surface seal is the responsibility of the installer.

To maintain the sealing overall, an efficient bond must be made using some form of gasketing medium. This is particularly vital on tiled surfaces where grout lines can channel moisture down the wall.

A continuous bead of moisture resistant mastic is a simple way of providing a seal, and can improve the appearance of the final assembly on an uneven surface..

Design Features

Material

Fascia Plate - Stainless steel 304. 1.2mm thick. Brushed finish Back Box - Sheet steel. 1.4 thick. Galvanised finish

Entries

Knockouts in back box.

Sealing

Isolating switch to stainless steel fascia plate - IP65

Mounting Screws

Stainless steel. (M5 x 25 with 'Allen Key' head).

Earthing

Separate earthing points on Fascia plate and back box.



switch range

Sheet Steel (IP41)

Enclosure (32A-630A)

General Description



Switch Disconnectors (O-I) -

Catalogue Numbers

Rating	Format**	Cat. No.	Enclosure Size *
32A	TPSN	SD41G00323N	1
63A	TPSN	SD41G00633N	1
100A	TPSN	SD41G01003N	3
125A	TPSN	SD41G01253N	4
160A	TPSN	SD41G01603N	4
200A	TPSN	SD41G02003N	5
250A	TPSN	SD41G02503N	5
400A	TPSN	SD41G04003N	6
630A	TPSN	SD41G06303N	8

^{**} switched neutral

Fuse Combination Units (O-I) — o—

Catalogue Numbers

Rating	Format [†]	Cat. No.	Enclosure Size 🛣
32A	TP&N	SDF41G00323N	2
63A	TP&N	SDF41G00633N	2
100A	TP&N	SDF41G01003N	3
125A	TP&N	SDF41G01253N	4
160A	TP&N	SDF41G01603N	4
200A	TP&N	SDF41G02003N	5
250A	TP&N	SDF41G02503N	5
315A	TP&N	SDF41G03153N	6
400A	TP&N	SDF41G04003N	6
630A	TP&N	SDF41G06303N	8

† unswitched neutral

Design Features

- · Safety handle when padlocked in the 'Off' position, the enclosure door cannot be opened. Capable of accepting up to three padlocks in the 'Off' position. ('On' position on request).
- Door interlock handle can be defeated to enable emergency opening or for testing purposes. (Must be carried out by a competent person)
- Positive contact indication through windows in Switch body.
- · Removable gland plates on top & bottom of all enclosures.
- Enclosure size 2 and above isolating switches are mounted on a removable galvanised chassis plate.
- All Fuse Combination Switches supplied complete with a set of fully rated fuse links.







*

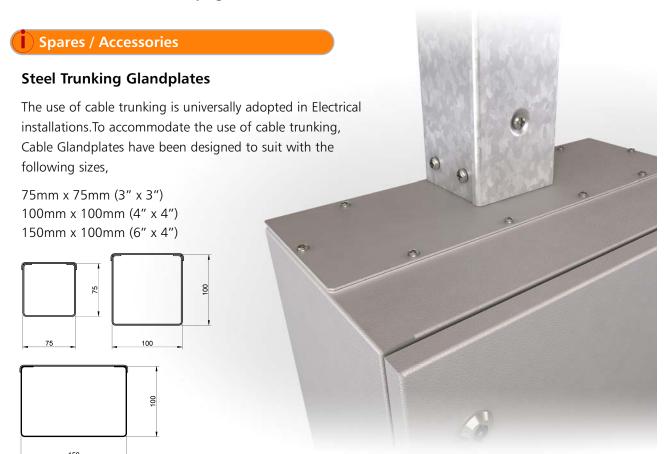


Sheet Steel (IP41)

Enclosure (32A-630A)

Technical Specification

Refer to the tables on page 17.



Typical Cable Capacities

(Maximum number of cables 600/1000V PVC)

Trunking Size		Nominal Conductor Size (mm²)										
Surface (mm)	1.0	1.5	2.5	4.0	6.0	10.0	16.0	25.0	35.0	50.0	70.0	95.0
75 x 75	312	273	191	152	118	76	55	37	28	20	16	11
100 x 100	555	494	350	271	211	135	98	66	50	37	28	21
150 x 100	1250	1112	766	609	475	305	222	148	112	83	64	47

Refer to BS 7671, IEE wiring regulations for specific applications.

Catalogue Numbers

	Case Size (see page 33)									
Trunking Size	1	2	3 & 4	5 &6	7-9	10				
75 x 75	SGP1	-	-	-	-	-				
150 x 100	-	SGP2	SGP3	SGP4	SGP5	SGP6				
150 x 100	-	-	-	SGP7	SGP8	SGP9				





Sheet Steel (IP41)

Enclosure (32A-630A)

Spares / Accessories continued



Electrical Rating (BS EN 60947-1)

Rated thermal current Rated Insulation voltage Utilisation Category

l_{ii} - 10A AC ratings (inductive A600) U_i - 500V 240V - Make 30A, Break 3A AC15 (DC13) 480V - Make 15A, Break 1.5A

Auxiliary Contacts

Add-on auxiliary blocks are available for all enclosed items. Select the blocks required and the associated mounting kit from the tables below.

Catalogue Numbers

Contact Blocks

For 63A Switch disconnectors 1 N/O + N/CSAUXCO* SAUXNO** For all other enclosed items 1 N/O (Green) **SAUXNC** 1 N/C (Red)

- * See page 4 for electrical ratings
- ** N/O contacts are early break when switching Off when used in conjunction with the following mounting kits.

Mounting Kits

Switch Disconnectors

	63A	100A-160A	200A-250A	400A-800A	1000A-1250A
Cat No.	N/A	SAUXKITA	SAUXKITB	SAUXKITC	SAUXKITD

Fuse Combination Switches

	32A-160A	200A-400A	630A
Cat No.	SAUXKITA	SAUXKITC	SAUXKITD

Fuse Links

The Fuse Combination Units are supplied fitted with a set of fully rated IEC/BS EN 60269 (BS88) fuse links.

Replacements can be supplied as individual fuse links to the table below.

Fuse links can be fitted of a lower rating to suit a particular load; please refer to the rating table on page 14 to maintain the correct size/tag format (A2, A4, B1 etc).

Ratings	32A	63A	100A	125A	160A	200A	250A	315A	400A	630A
IEC/BS EN 60269 (BS88) Fuse link Cat Nos	SFL32	SFL63	SFL100	SFL125	SFL160	SFL200	SFL250	SFL315	SFL400	SFL630



Terminal Covers

Terminal protection is provided on all items for live incoming terminals; spare terminal covers are available for replacement or extending the protection to the outgoing connections.

Switch Disconnectors & Fuse Combination Switches

Catalogue Numbers - individual covers

Isol. Rating (A)	32 - 63	100 - 160	200 - 400	630
Terminal Cover Cat No	o. Not Reqd.	STS1	STS2	STS3

Fuse Covers

Fuse Link covers are not fitted to the standard Fuse Combination Switch catalogued items. Covers are offered to protect the user where access has to be gained whilst the power is on.

Fuse Combination Switches

Catalogue Numbers - individual covers

Isol. Rating (A)	32 - 160	200 - 250	315 - 400	630
Fuse Cover Cat No.	-	SFS1	SFS2	SFS3







Enclosure (32A-1000A)

General Description

In addition to the basic features of our IP41 enclosed range, the IP65 family introduces:-

- IP65 handle assemblies
- **Changeover Switch Disconnectors**
- Sealed gland plates
- Up to 1000A Switch Disconnectors



Design Features

- · Safety handle when padlocked in the 'Off' position, the enclosure door cannot be opened. Capable of accepting up to three padlocks in the 'Off' position. ('On' position on request).
- Door interlock handle can be defeated to enable emergency opening or for testing purposes. (Must be carried out by a competent person)
- Positive contact indication through windows in Switch body.
- Removable gland plates on top & bottom of all enclosures.
- Enclosure size 2 and above isolating switches are mounted on a removable galvanised chassis plate.
- All Fuse Combination Switches supplied complete with a set of fully rated fuse links.



Switch Disconnectors (O-I) — a—

Catalogue Numbers

Rating	Format**	Sheet Steel	Stainless Steel	Encl. Size*
63A	TPSN	SDG00633N	SDS00633N	1
100A	TPSN	SDG01003N	SDS01003N	3
125A	TPSN	SDG01253N	SDS01253N	4
160A	TPSN	SDG01603N	SDS01603N	4
200A	TPSN	SDG02003N	SDS02003N	5
250A	TPSN	SDG02503N	SDS02503N	5
400A	TPSN	SDG04003N	SDS04003N	6
630A	TPSN	SDG06303N	SDS06303N	8
800A	TPSN	SDG08003N	SDS08003N	8
1000A	TPSN	SDG10003N	SDS10003N	10

** switched neutral

63A & 125A 6 Pole + 2 E/B options available on request

Fuse Combination Switches (O-I) -

Catalogue Numbers

Rating	Format [†]	Sheet Steel	Stainless Steel	Encl. Size 🛣
32A	TP&N	SDFG00323N	SDFS00323N	2
63A	TP&N	SDFG00633N	SDFS00633N	2
100A	TP&N	SDFG01003N	SDFS01003N	3
125A	TP&N	SDFG01253N	SDFS01253N	4
160A	TP&N	SDFG01603N	SDFS01603N	4
200A	TP&N	SDFG02003N	SDFS02003N	5
250A	TP&N	SDFG02503N	SDFS02503N	5
315A	TP&N	SDFG03153N	SDFS03153N	6
400A	TP&N	SDFG04003N	SDFS04003N	6
630A	TP&N	SDFG06303N	SDFS06303N	8

† unswitched neutral

Changeover Switch Disconnector (I-O-II) — a—

Catalogue Numbers

Rating	Format	Sheet Steel	Stainless Steel	Encl. Size 🛣
63A	4P C/O	SCODG00634	SCODS00634	5
100A	4P C/O	SCODG01004	SCODS01004	5
125A	4P C/O	SCODG01254	SCODS01254	5
160A	4P C/O	SCODG01604	SCODS01604	5
200A	4P C/O	SCODG02004	SCODS02004	7
250A	4P C/O	SCODG02504	SCODS02504	7
400A	4P C/O	SCODG04004	SCODS04004	9
630A	4P C/O	SCODG06304	SCODS06304	9









Enclosure (32A-1000A)

Technical Specification

Switch Disconnectors -

Data supplied against t	ests	to B	S EN 60947-3						Ratir	ng (A)					
Application	Sym.	Unit	Category	32	63	100	125	160	200	250	400	630	800	1000	1250
Rated thermal current	I _{the}	Α		32	63	100	125	160	200	270	500	630	720	1000	1250
Rated Insulation voltage	Ui	V		690	690	750	750	750	1000	1000	1000	1000	1000	1000	1000
Rated impulse voltage	U_{imp}	kV		6	6	8	8	12	12	12	12	12	12	8	8
			up to 415V - AC21A	32	63	100	125	160	200	250	400	630	800	1000	1250
			440-690V - AC21A	-	-	100	125	160	200	250	400	630	800	1000	1250
			up to 415V - AC22A	-	-	100	125	160	200	250	400	630	800	1000	1250
Rated operational current (AC)	l _e	A	690V - AC22A	-	-	100	125	160	200	250	400	630	800	-	-
			up to 415V - AC23A	-	-	100	125	160	200	250	400	630	720	-	-
			690V - AC23A	-	-	40	50	63	200	250	350	350	350	-	-
			up to 48V - DC21A	-	-	100/2	125/2	160/2	200/2	250/2	400/2	630/1	800/1	1000/1	1250/1
			220V - DC21A	-	-	100/3	125/3	160/3	200/2	250/2	400/2	630/2	800/2	1000/3	1250/3
Rated operational current (DC)		A	up to 48V - DC22A	-	-	100/2	125/2	160/2	200/2	250/2	400/1	630/1	800/1	-	-
/poles in series	le	^	220V - DC22A	-	-	100/3	125/3	160/3	200/2	250/2	400/2	630/2	800/2	-	-
			up to 48V - DC23A	-	-	100/2	125/2	160/2	200/2	250/2	400/1	630/1	800/1	-	-
			220V - DC23A	-	-	100/3	125/3	160/3	200/2	250/2	400/2	630/2	630/2	-	-
Rated operational power	P _e	kW	400/415V - AC23A	15	25	37	45	45	110	132	200	315	355	400	400
nated operational power	I e	KVV	690V - AC23A	15	30	37	45	45	170	200	315	355	355	-	-
Short circuit making capacity	l _{cm}	kΑ	Peak value	-	-	3.6	3.6	7	35	35	65	80	80	105	105
Short circuit withstand (1 sec)	I _{cw}	kA	RMS value	0.6	1.3	2.5	2.5	5	8	8	17	17	17	50	50
Min. mechanical endurance		-	Operations /2	•	-	20,000	20,000	20,000	16,000	16,000	10,000	10,000	10,000	6,000	6,000
Min. electrical endurance		-	415V - at 0.65 pf	•	-	5,000	5,000	1,000	1,000	1,000	1,000	500	500	500	500
		-	Terminal type	Ë	Ë	0									
		mm²	Min/Max	2.5/10	2.5/25	10/70	10/70	10/95	-	-	-	-	-	-	-
Connecting capacity	·	mm	Stud/Cu palm width	-	-	8x20	8x20	8x20	8x25	10x30	10x40	12x40	12x40	12x60	12x60
		Nm	Tightening torque	1.2	1.3	6	8	8	30-44	30-44	30-44	50-75	50-75	50-75	50-75

Technical Specification

Fuse Combination Disconnectors —

Data supplied against	tests	to B	S EN 60947-3	Rating (A)									
Application	Sym.	Unit	Category	32	63	100	125	160	200	250	315	400	630
Rated thermal current	I _{the}	А		32	63	100	125	160	200	250	315	400	630
Rated Insulation voltage	Ui	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)	l _e	Α	415V - AC22A	32	63	100	125	160	200	250	315	400	630
Rated operational current (DC)*		^	220V - AC23A	32	63	100	125	160	200	250	315	400	630
Rated making capacity (AC23A)		Α	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)		Α	415V, 0.35 pf	256	504	800	1,000	1,280	1,600	2,000	2,520	3,200	5,040
Rated Conditional (Fused)		kA	S/C curent rms	80	80	80	80	80	80	80	80	80	80
short circuit		Α	back up fuse	32	63	100	125	160	200	250	315	400	630
Minimum mechanical endurance			Operations	20,000	20,000	15,000	15,000	15,000	10,000	10,000	10,000	10,000	6,000
Minimum 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, A3	A2, A3	A4	A4	B1-B2	B1-B2	B1-B2	B1-B4	B1-B4	C1-C3
		-	Terminal type	Ë	ë								
Connecting capacity		mm²	Min/Max	16	25	95	95	120	240	240	300	300	400
		mm	Stud/Cu palm width	-	-	8/20	8/20	8/20	10/25	10/25	10/25	10/25	12/50
		Nm	Tightening torque	3.5	5.5	9	12	16	25	30	35	45	50









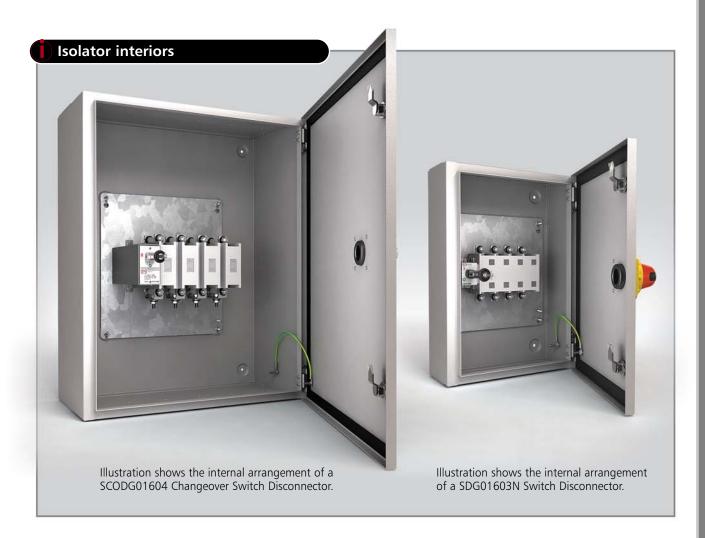
Enclosure (32A-1000A)

Technical Specification

Changeover Switch Disconnectors



Data supplied against	tests	to E	RS EN 60947-3	Rating (A)								
Application	Sym.	Unit	Category	63	100	125	160	200	250	400	630	
Rated thermal current	I _{the}	А		63	100	125	160	200	250	400	630	
Rated Insulation voltage	Ui	V		1000	1000	1000	1000	1000	1000	1000	1000	
Rated impulse voltage	U_{imp}	kV		12	12	12	12	12	12	12	12	
Rated operational current	l _e	A	415V - AC22A	63	100	125	160	200	250	400	630	
nated operational current	ie.	'`	415V - AC23A	63	100	125	160	200	250	400	630	
Rated making capacity (AC23A)		Α	415V, 0.35 pf	630	1,000	1,250	1,600	2,000	2,500	4,000	6,300	
Rated breaking capacity (AC23A)		Α	415V, 0.35 pf	504	800	1,000	1,280	1,600	2,000	3,200	5,040	
Short Circuit Current		kA	RMS (with fuses)	50	50	50	50	100	100	100	80	
Rated S/C Making Capacity		Α	Peak	10	10	10	10	30	30	40	50	
Minimum mechanical endurance			Operations	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	
Minimum electrical endurance			415V - at 0.65 pf	5,000	5,000	5,000	1,000	1,000	1,000	1,000	500	
		-	Terminal type	Ë								
Connecting conscitu		mm²	Min/Max	16	95	95	120	240	240	300	400	
Connecting capacity		mm	Stud/Cu palm width	-	8/20	8/20	8/20	10/25	10/25	10/25	12/50	
		Nm	Tightening torque	3.5	9	12	16	25	30	45	50	







Enclosure (32A-1000A)

Spares / Accessories



Auxiliary Contacts

Add-on auxiliary blocks are available for all enclosed items. Select the blocks required and the associated mounting kit from the tables below.

Catalogue Numbers

Contact Blocks

For 63A Switch disconnectors 1 N/O + N/CSAUXCO* SAUXNO** For all other enclosed items 1 N/O (Green) 1 N/C (Red) **SAUXNC**

- * See page 4 for electrical ratings
- ** N/O contacts are early break when switching Off when used in conjunction with the following mounting kits.

Mounting Kits

Switch Disconnectors

	63A	100A-160A	200A-250A	400A-800A	1000A-1250A
Cat No.	N/A	SAUXKITA	SAUXKITB	SAUXKITC	SAUXKITD

Fuse Combination Switches

	32A-160A	200A-400A	630A
Cat No.	SAUXKITA	SAUXKITC	SAUXKITD

Changeover Switch Disconnector

		63A-160A	200A-630A	
Cat No.	Upper Sw.	SAUXKITE	SALIXKITE	
cut ivo.	Lower Sw.	3/10/11112	37.07.1112	

Fuse Links

The Fuse Combination Units are supplied fitted with a set of fully rated IEC/BS EN 60269 (BS88) fuse links. Replacements can be supplied as individual fuse links to the table below.

Fuse links can be fitted of a lower rating to suit a particular load; please refer to the rating table on page 14 to maintain the correct size/tag format (A2, A4, B1 etc).

Ratings	32A	63A	100A	125A	160A	200A	250A	315A	400A	630A
IEC/BS EN 60269 (BS88) Fuse link Cat Nos	SFL32	SFL63	SFL100	SFL125	SFL160	SFL200	SFL250	SFL315	SFL400	SFL630



Terminal Covers

Terminal protection is provided on all items for live incoming terminals; spare terminal covers are available for replacement or extending the protection to the outgoing connections.

Switch Disconnectors & Fuse Combination Switches

Catalogue Numbers - individual covers

Isol. Rating (A)	32 - 63	100 - 160	200 - 400	630
Terminal Cover Cat No.	Not Reqd.	STS1	STS2	STS3

Fuse Covers

Fuse Link covers are not fitted to the standard Fuse Combination Switch catalogued items. Covers are offered to protect the user where access has to be gained whilst the power is on.

Fuse Combination Switches (Catalogue No. is for individual covers)

ı	Isol. Rating (A)	32 - 160	200 - 250	315 - 400	630
	Fuse Cover Cat No.	-	SFS1	SFS2	SFS3





'ATEX C' Zone 22 (category 3D)

non-conductive dust

How safe is your workspace?

From July 2006 the onus was placed upon companies to ensure that all equipment within their organisations is suitable for the environment in which it is being used. This was aimed particularly at areas where there may be a possibility of a combustible atmosphere being present, even for short periods i.e. less than 10 hours / year.

People normally think of such atmospheres as being gases, mists or vapours. However there are various industries where a conductive or non conductive dust mixed with air in the right proportion can become explosive. It is these areas where the Craig & Derricott ATEX Group II (Zone 22) equipment can be used to help you comply with Health & Safety regulations.

Typical industries where such atmospheres may be generated :-

- Grain Mills
- Powder Coating Plant
- Textiles
- Chemicals
- Cargo Handling
- Woodworking
- Pharmaceuticals
- Waste Processing

There are differing degrees of protection against explosive dusts, and Zone 22 is defined as :-

"A place in which an explosive atmosphere, in the form of a cloud of combustible dust in air, is not likely to occur in normal operation but, if it does occur, will persist for a short period only."

Applicable Regulations / Specifications

 Directive 94/9/EC ("Manufacturers Directive") Sets out the route equipment manufacturers must take to get their products certified for use in hazardous environments.

Directive 1999/92/EC ("Users Directive") Defines the classifications for protection Zones, and the approach users must take to ensure that the correct equipment is matched to specific hazardous environments.

Both of the above are classed as 'ATEX' directives and are concerned solely with ensuring safety in the work place.

DSEAR Dangerous Substances and Explosive Atmospheres Regulations 2002

 BS EN 61241-0 Electrical apparatus for use in the presence of combustible dust - General requirements. BS EN 61241-1 Electrical apparatus for use in the presence of combustible dust - Protection by enclosures 'tD'.

BS EN 60204-1 Safety of machinery - electrical equipment of machines - Part 1 General requirements.

Specification for degrees of protection provided by enclosures (IP code). BS EN 60529

BS EN 60947-3 Specification for low-voltage switchgear and controlgear.

BS EN 60204-1 Safety of machinery. Electrical equipment of machines - General requirements.

ATEX Switch Disconnectors

25A - 63A



Craig & Derricott has been manufacturing enclosed switchgear for more than 50 years. We have incorporated all of that experience in producing an outstanding product that has now been approved for use in explosive dust atmospheres.

Two purpose designed die-cast enclosures are used to cover the 25A & 32A items, whilst the 63A items are supplied in a sheet steel enclosure. All items have a minimum ingress protection of IP65. The following table lists two popular formats that will fulfil most applications. However, if you specifically require an alternative arrangement, then contact our technical sales staff who will advise on options available.

Catalogue Numbers

Rati	ng	Format	Assembly Form (see left)	Cat. No.	Enclosure Size 🛣
25	^	3P+2 EB Aux	21	DGM253EBZ22	А
25	A	6P+2 EB Aux	2L	DGM256EBZ22	A
32	^	3P+2 EB Aux	2B	DGM403EBZ22	В
32	A	6P+2 EB Aux	Z B	DGM406EBZ22	В
63	^	3P+2 EB Aux	חר	DGM633EBZ22	С
63A		6P+2 EB Aux	3B	DGM636EBZ22	







'ATEX C' Zone 22 (category 3D)

non-conductive dust

Safety Features

Padlocking

All versions allow the fitting of a padlock in the 'Off' position. *Form 2* construction allows the use of a single padlock, whilst *Form 3* will accept 2 or more.

For Form 2 items it is recommended that padlocking devices with a minimum hasp diameter of 6.4mm are used. This will limit the movement of the handle away from the 'Off' position.

Form 2 can accommodate padlocking in both the 'Off' & 'On' positions. Please add /10 to the cat. No. if required:- e.g. DGM323EBZ22.

Design Features

Auxiliary Contacts

The 'EB' addition to the catalogue numbers denotes the inclusion of 2 off *early break* contacts.

In all cases these are factory fitted to the isolator interior.

Form 2 auxiliary contacts are fully rated and are designed to open before the main contacts when switching 'Off'. By definition the contacts would be *late make* when switching 'On'.

Technical Specification

Isolator Interiors

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

					Rating	
Application	Sym.	Unit	Category	25A	32A	63A
Rated thermal current	I _{the}	А		25	40	63
Rated insulation voltage	Ui	V		690	690	690
Rated impulse voltage	U _{imp}	kV		4.0	-	6.0
			400/415V - AC21A	25.0	32.0	63.0
Rated operational current (AC)		А	400/415V - AC22A	25.0	32.0	-
			400/415V - AC23A	25.0	28.0	-
Rated operational power (AC)		kW	3 x 400V - AC23	10.0	15.0	25.0
Conditional short circuit current	I _{imp}	kA		6.0	50.0*	50.0**
Minimum mechanical endurance			Cycles	0.3 x 10 ⁶	0.5 x 10 ⁶	-
		-	Terminal type	Ë		Ë
Connecting capacity		mm²	Flexible cable	2.5 - 6.0	10 max	16.0
		mm²	Stranded cable	2.5 - 6.0	10 max	25.0
		Nm	Tightening torque	1.6	2.0	2.0
<u> </u>		· ·		·		

*Fuse in circuit - GEC 'TIS 40'

Certification Details

25A -63A

Coding: Ex II 3D

EX tD A22 IP65 T85°C

Complies in part or full with Standards: BS EN 50014, BS EN 50281-1-1, BS EN 60529

BS EN 60947-3, BS EN 60204-1

(Must not be used in areas which exhibit conductive dust.)





^{**} Fuse in circuit 63A



Fire Rated (High Temperature)

Isolators (20A - 125A)

General Description

Craig & Derricott has been producing switch disconnectors for more than 20 years. Combining our switching expertise with the specific requirements of the ventilation industry has led to the development of our 'High Temperature Isolator' range. Excellent switching characteristics with high temperature environment contact stability makes this the ideal product range.

The critical role these switches perform is to maintain the power to vital equipment such as ventilation fans, allowing safe evacuation of a business or public area. Often these devices are mounted local to the extraction fans and, as an assembly, it is essential they comply with the stringent thermal requirements of BS EN 12101 - 2003.

The complete range are housed in metal enclosures. The user can therefore be assured that there will be no distortion affecting the connecting cables and its supports.

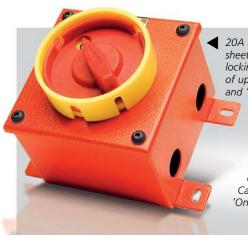
Smoke kills more people than fire.

A well known fact, and it's the job of the ventilation designer to ensure this doesn't happen - and to do this effectively they will need continuous power.

Electrical Characteristics

					кат	ing	
Application	Sym.	Unit	Category	20A	32A	63A	125A
Enclosure material / size 🚼				Sheet Steel	Die-Cast	Sheet Steel	Sheet Steel
Rated thermal current	I _{the}	А		20.0	32.0	63.0	125.0
Rated insulation voltage	Ui	V		690	690	690	690
			400/415V - AC21A	20.0	32.0	63.0	125.0
Rated operational current (AC)		А	400/415V - AC22A	20.0	32.0	-	100.0
			400/415V - AC23A	25.0	28.0	-	-
Rated operational power (AC)		kW	3 x 400/415V - AC23A	10.0	15.0	-	55.0 (AC23B)
Conditional short circuit current	I _{cc}	kA		50.0**	50.0**	50.0**	50.0**
Minimum mechanical endurance		Cycles		>0.5 x 10 ⁶			
		-	Terminal type				
Connecting capacity		mm²	Flexible cable	2.5	6.0	25.0	50.0
		mm²	Stranded cable	2.5	6.0	25.0	50.0

^{**} Max size BS 88 fuse in circuit 20A-32A, 32A-32A, 63A-63A, 125A-125A



20A item housed in red finished sheet steel enclosure. The circular locking handle allows for the insertion of up to 3 padlocks in the 'Off' and 'On' positions.

32A item enclosed within a heavy duty die-cast aluminium enclosure. Can be supplied padlockable in both 'On' & 'Off' positions to special order.









Fire Rated (High Temperature)

Isolators (20A - 125A)

Specification

Within BS EN 12101-3 :2003 (Smoke and heat control systems) which is the specification for powered smoke and heat exhaust ventilators, there are several classes of duty. These define specifically the temperature gradient and upper limit for the test as well as the time period over which the test will last. Within the range of this equipment are the following classes:-

(**F200**) 200°C for 120 minutes

(**F300**) 300°C for 60 minutes

(F400) 400°C for 120 minutes

The specification calls for dynamic tests designed to check the performance of complete ventilation systems. The associated isolator is required to maintain the essential supply throughout the duration of the test. To ensure the capability of this equipment, tests have been independently undertaken by a certified fire testing authority.

Catalogue Numbers

Rating	Format	Assembly Form	Catalogue Ref.	Temp. Class	Enclosure Size 🜟	Universal Features
		10111	(Finished Red)	(see above)	312 C A	
	2P	Lid	RD2011/CP/SEHT			 Positive mode contacts.
	3P		RT2021/CP/SEHT			Sealing to IP65
20A	3P + 2EB Aux	mounted in sheet	RT2031/2EB/CP/SEHT	(F400)		• Padlockable in the 'Off' & 'On'
207	3P + NL	steel	RT2021/CP/SEHT/NL	(F400)	$oxed{A}$	positions as standard
	4P	enclosure	RQ2021/CP/SEHT			• Finished in RAL 3020 (Traffic
	6P		RY2031/CP/SEHT			Red) textured powder coat finish
	2P		RD3011/HPHT			Cable Entries
	3P	Lid	RT3021/HPHT			20A 2 x Ø20 plain holes
	3P + 2EB Aux	mounted	RT3031/2EB/HPHT			
32A	3P + NL	in die-cast aluminium	RT3021/HPHT/NL	(F400)	(B)	32A 2 x M20
	4P	enclosure	RQ3021/HPHT			63A Undrilled bottom gland plate
	6P		RY3031/HPHT			125A Undrilled bottom gland plate
	6P + 2EB Aux		RY3041/2EB/HPHT			
	2P		RDB6321/HPHT			THE RESERVE OF THE PARTY OF THE
	3P	Base mounted in sheet steel enclosure	RTB6341/HPHT	F400		
	3P + 2EB Aux		RTB6351/2EB/HPHT			FIRE 🥎 RATED
63A	3P + NL		RTB6341/HPHT/NL		C	
	4P		RQB6341/HPHT			
	6P		RYB6361/HPHT			
	6P + 2EB Aux		RYB6371/2EB/HPHT			
	2P	-	RS1BD11/HPHT			
	3P	Base	RS1BT21/HPHT			· ·
	3P + 2EB Aux	mounted	RS1BT31/2EB/HPHT			
25A	3P + NL	in sheet steel	RS1BT21/HPHT/NL	(F400)	D	
	4P	enclosure	RS1BQ21/HPHT			
	6P		RS1BY31/HPHT			
	6P + 2EB Aux		RS1BY41/2EB/HPHT			The second secon
		e-cast & 12	5A sheet steel example		RATED WARNING	





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(16A - 1250A)

General Description

Craig & Derricott produces several ranges of enclosed switchgear within the i-switch family; each of which uses 'load break' switches in various formats. An increased range of these products are also available for installation in the users own enclosure/panel. All items include all of the necessary options to complete the installation such as shafts, handles, terminal shields etc. Below are listed the various switch formats and options available to the user in the following product types:-

• Switch Disconnectors • Changeover Switch Disconnectors • Fuse Combination Units

Switch Disconnectors

nectors *) ISD* **Range (16A - 80A)**



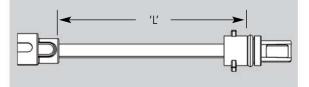
A compact range of switch disconnectors with the capacity to add a range of auxiliary and neutral block options to the basic load break switch block. Features:-

- On-load AC23A ratings.
- Four frame sizes.
- IP20 terminal protection.
- IP65 door interlocking handle.
- DIN rail or screw mounting.
- Add-on auxiliary/neutral blocks for 3 pole version.

Switch Disconnectors

Catalogue Numbers

Current rating	16A	20A	25A	32A	40A	40A	63A	80A
Frame Size 🛣	A0	A2	Α0	A0	A0	A3	A1	A1
3 Pole	SD00163	-	SD00253	SD00323	SD00403	-	SD00633	SD00803
6 Pole + 2 E/B Aux	-	SD00256EB	-	-	-	SD00406EB	-	-



Operating Shaft

Catalogue Numbers

Shaft Length 'L'	Catalogue Number			
100mm	SSH1			
200mm	SSH2			

Safety Features

Door Interlocked Handle Assembly

The door interlocked handle is of a stylish design and compact in size. As the illustration shows, it can take up to 3 padlocks in the 'Off' position (\emptyset 6.4 max. hasp diameter).



Catalogue Numbers

Sealing	Catalogue Number
IP65	SDH1

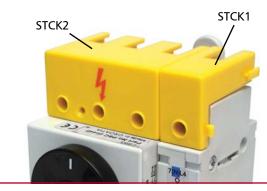






(16A - 1250A)





Accessories

Add-on Auxiliary Blocks

Auxiliary/neutral blocks can be fitted on the left, right or both sides of the 3Pole load break switch only. Before installing ensure the load break switch is in the 'Off' position.

Description	Cat. No.
Auxiliary Contact - 2 Early Break	SAUX2EB
Auxiliary Contact - 1 N/O + 1 N/C	SAUXCO
16A Neutral (Unswitched)	SNL16
25A Neutral (Unswitched)	SNL25
32A Neutral (Unswitched)	SNL32
40A Neutral (Unswitched)	SNL40
63A Neutral (Unswitched)	SNL63
80A Neutral (Unswitched)	SNL80
16A Neutral (Switched)	SSP16
25A Neutral (Switched)	SSP25
32A Neutral (Switched)	SSP32
40A Neutral (Switched)	SSP40
63A Neutral (Switched)	SSP63
80A Neutral (Switched)	SSP80

Terminal Covers

Additional protection can be added to the terminals of the 'A1' frame size items by fitting one of the following covers. Both items are supplied moulded in Yellow.

Description	Cat. No.
Neutral Link Cover	STCK1
Switch Disconnector Cover	STCK2

Assembly Options

		Main	Switch	Operati	ng Shaft	Door	Terminal	Auxiliary	Contacts	Neutra	al Links
Rating (A)	Frame	3 Pole	6 Pole	200mm	400mm	Interlock Handle	Cover (Screwed)	1N/O* + 1 N/C	2 E/B	Switched	Unswitched
16	A0	1						SAUXCO	SAUX2EB	SSP16	SNL16
20	A2		1					N/A	N/A	N/A	N/A
25	A0	✓			ccita	CDUA		SAUXCO	SAUX2EB	SSP25	SNL25
32	A0	✓		SSH1				SAUXCO	SAUX2EB	SSP32	SNL32
40	A0	✓		3311	SSH2	SDH1		SAUXCO	SAUX2EB	SSP40	SNL40
40	А3		/					N/A	N/A	N/A	N/A
63	A1	✓					✓	SAUXCO	SAUX2EB	SSP63	SNL63
80	A1	/					/	SAUXCO	SAUX2EB	SSP80	SNL80

Technical Specification

For technical specifications please refer to: Page 4 Moulded Plastic Enclosure







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(16A - 1250A)

Switch Disconnectors (continued)

ISD Range (100A - 1250A)



A robust range of load break switches designed to ensure simple installation in applications such as power distribution boards. The compact design also suits OEM's and stand alone enclosure installations. A range of accessories extends the versatility.

Features:-

- On-load AC23A ratings.
- Four frame sizes covering 100A 1250A.
- Direct lug connection onto Cu palms.
- Supplied as 3 or 4 pole load break switches.
- IP65 sealing door interlocking handles.

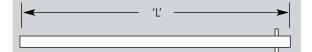
Switch Disconnectors

Catalogue Numbers

Current rating	100A	125A	160A	200A	250A	400A	630A	800A	1000A	1250A
Frame size 🛣	B1	B1	B1	B2	B2	В3	В3	В3	B4	В4
3 Pole	SD01003	SD01253	SD01603	SD02003	SD02503	SD04003	SD06303	SD08003	SD10003	SD12503
4 Pole	SD01004	SD01254	SD01604	SD02004	SD02504	SD04004	SD06304	SD08004	SD10004	SD12504

Operating Shaft

All operating shafts are manufactured from square section steel and zinc plated. The height setting is adjusted by passing the shaft through a bush in the load break switch mechanism and locking it in position using two 'cup point' grub screws.



Catalogue Numbers

		Load Break Switch Current Rating				
Shaft Length 'L'		100-160A	200-315A	400 - 1250A		
200mm		SSH3	SSH4	SSH5		
400mm		SSH13	SSH14	SSH15		
Shaft Section		6mm²	8mm²	12mm²		
Max. Possible	200mm	250	270	285		
Enclosure depth	Enclosure depth 400mm		470	485		

Safety Features

Door Interlocked Handle Assembly



The door interlocked handle is of a stylish design in three sizes. As the illustration shows it can take up to 3 padlocks in the 'Off' position (Ø6.4 max. hasp diameter). For emergency or testing situations there is an override facility available for use by a competent person.

All handles are sealed to IP65 which will enable installations in a wide variety on environmental conditions.

Catalogue Numbers

	Load Break Switch Current Rating					
	100-160A	200-315A	400 - 1250A			
Handle	SDH2	SDH3	SDH4			
Handle length	80mm	80mm	145mm			
Shaft section (□)	6mm	8mm	12mm			







(16A - 1250A)



Accessories

Add-on auxiliary blocks are available for all load-break items. Select the blocks required and the associated mounting kit from the tables located on page 19.

Electrical Rating (BS EN 60947-1)

Rated thermal current I_{th} - 10AAC ratings (inductive A600) Rated Insulation voltage U_i - 500V 240V - Make 30A, Break 3A **Utilisation Category** AC15 (DC13) 480V - Make 15A, Break 1.5A

Catalogue Numbers

See page 19 for Catalogue Numbers...

Terminal Covers

The catalogue numbers shown are for individual covers. The covers are attached by screwing on to the thread of the terminal bolt.

Isol. Rating (A)	100 - 160	200-400	630-800	1000-1250
Terminal Cover Catalogue No.	STS1	STS2	STS3	-

Assembly Options

	Main Switch	Operating Shaft		Door	Terminal	Auxiliary Contacts	
Rating (A)	3/4 Pole	200mm	400mm	Interlock Handle	Cover (Screwed)	Blocks	Mtg. Kit
100	✓						
125	✓	SSH3	SSH13	SDH2	STS1		SAUXKITA
160	✓						
200	✓	CCLIA	CCI114	CDITO		SAUXNO	CALIVICITO
250	✓	SSH4	SSH14	SDH3		& &	SAUXKITB
400	✓				STS2	SAUXNC	
630	✓					3/10/1110	SAUXKITC
800	✓	SSH5	SSH15	SDH4	CTC 2		
1000	✓				STS3		CALIVICITE
1250	✓				-		SAUXKITD

Technical Specification

For technical specifications please refer to: Page 17 Sheet Steel IP65 Enclosure







(16A - 1250A)

Changeover Disconnectors

ISC Range (63A - 630A)



A modular design has created a compact range of on-load changeover switches suitable for a wide range of applications

Features:-

- On-load AC23A ratings.
- Windows for visual contact inspection.
- Three frame sizes covering 63A 630A.
- Direct lug connection onto Cu palms.
- Supplied as 4 pole load break switches..
- IP65 sealing door interlocking handles.

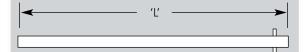
Load Break Changeover Switches

Catalogue Numbers

Current rating	63A	100A	125A	160A	200A	250A	400A	630A
Frame size 🛣	C1	C1	C1	C1	C2	C2	C3	C3
4 Pole	SCOD00634	SCOD01004	SCOD01254	SCOD01604	SCOD02004	SCOD02504	SCOD04004	SCOD06304

Operating Shaft

All operating shafts are manufactured from square section steel and zinc plated. The height setting is adjusted by passing the shaft through a bush in the load break switch mechanism and locking it in position using two 'cup point' grub screws.



Catalogue Numbers

		Load Break Switch Current Rating					
Shaft Length 'L'		63 - 160A	200-250A	400-630A			
200mm		SSH6	SSH6	SSH5			
400mm		SSH16	SSH16	SSH15			
Shaft Section		12mm²	12mm²	12mm²			
Max. Possible	200mm	250	270	285			
Enclosure depth	400mm	450	470	485			

Safety Features

Door Interlocked Handle Assembly



The door interlocked handle is of a stylish design in two sizes. Each handle is designed to take up to 3 padlocks in the 'Off' position (Ø6.4 max. hasp diameter). For emergency or testing situations there is an override facility available for use by a competent person.

All handles are sealed to IP65 which will enable installations in a wide variety of environmental conditions.

Catalogue Numbers

	Load Break Switch Current Rating				
	63 - 250A	400 - 630A			
Handle	SDH5	SDH6			
Handle length	145mm	220mm			
Shaft section (□)	12mm	12mm			







(16A - 1250A)



Accessories

Add-on auxiliary blocks are available for all load-break items. Select the blocks required and the associated mounting kit from the tables located on page 19.

Electrical Rating (BS EN 60947-1)

Rated thermal current AC ratings (inductive A600) I_{th} - 10A240V - Make 30A, Break 3A Rated Insulation voltage U₁ - 500V **Utilisation Category** AC15 (DC13) 480V - Make 15A, Break 1.5A

Catalogue Numbers

See page 19 for Catalogue Numbers...

Assembly Options

Rating	Main	Operatir	ng Shaft	Door	Terminal	Auxiliary Contacts	
(A)	Switch	200mm	400mm	Interlock Handle	Cover (screwed)	Blocks	Mtg. Kit
63	✓						
100	✓						SAUXKITE
125	\	SSH6	SSH16	SDH5	N/A	SAUXNO	(Upper & Lower Switches)
160	✓	33110	331110			&	,
200	✓				14/75	SAUXNC	
250	√					SAONING	SAUXKITE
400	√	SSH5	SSH15	SSDH6			JAOARITE
630	✓						

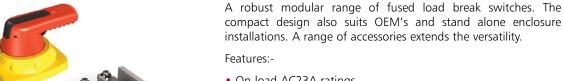
Technical Specification

For technical specifications please refer to: Page 18 Sheet Steel IP65 Enclosure **Changeover Disconnectors**



Fuse Combination Units

ISF Range (32A - 630A)



- On-load AC23A ratings
- Wide current range
- Standard IEC/BS EN 60269 (BS 88) fuse links
- Supplied as TP&N (Neutral unswitched)
- IP65 sealing door interlocking handles

Cata	loque	Muum	hore

Current rating	32A	63A	100A	125A	160A	200A	250A	315A	400A	630A
Frame size 🛣	D1	D1	D2	D2	D3	D4	D4	D5	D5	D6
TP&N	SDF00323N	SDF00633N	SDF01003N	SDF01253N	SDF01603N	SDF02003N	SDF02503N	SDF03153N	SDF04003N	SDF06303N







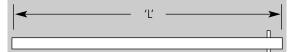
(16A - 1250A)

Fuse Combination Units (continued)

ISF Range (32A - 630A)

Operating Shaft

All operating shafts are manufactured from square section steel and zinc plated. The height setting is adjusted by passing the shaft through a bush in the load break switch mechanism and locking it in position using two 'cup point' grub screws.



Catalogue Numbers

			Load Break Switch Current Rating					
			32-160A	200-315A	400-630A			
Shaft	200m	ım	SSH3	SSH5	SSH5			
Length 'L'	400mm		SSH13	SSH15	SSH15			
Shaft Section			6mm²	12mm²	12mm²			
Max. Possible	200	mm	250	300	330			
Enclosure dep	th 400	mm	450	500	530			

Safety Features

Designed to complement the handles used on our enclosed equipment, the door interlocked versions are capable of being locked with a maximum of three padlocks. (Ø6.4 max. hasp diameter).

All handles are sealed to IP65 which will enable installations in a wide variety of environmental conditions.

If the contacts should weld due to a fault or an excessive current situation, an override facility is provided for the use of a competent person which will allow the lid to be opened.

Door Interlocked Handle Assembly

Catalogue Numbers

	Load Break Switcl	n Current Rating		
	32 - 160A	200 - 630A		
Handle	SDH2	SDH4		
Handle length	80mm	145mm		
Shaft section (□)	6mm	12mm		

Accessories

FOR DETAILS OF AUXILIARY BLOCKS, TERMINAL COVERS AND FUSE COVERS - SEE PAGE 19

Assembly Options

Rating	Main	Operatii	ng Shaft	Door Terminal Interlock Cover		FUSE		
(A)	Switch (TP&N)	200mm	400mm	Handle	(screwed)	COVERS	Blocks	Mtg. Kit
32	√				N/A			
63	✓				IN/A			
100	✓	SSH3	SSH13	SDH2				SAUXKITA
125	✓				STS1	N/A	CALDATO	
160	✓						SAUXNO &	
200	✓					SFS1	SAUXNC	
250	✓				STS2	3131		SAUXKITC
315	✓	SSH5	SSH15	SDH4	3132	SFS2		3, 10, 1111
400	✓					51 32		
630	✓				STS3	SFS3		SAUXKITD

 $[\]ensuremath{^{\star}}$ N/O contacts are Early Break when switching Off

Technical Specification

For technical specifications please refer to: Page 17

Sheet Steel IP65 Enclosure Fuse Combination Diconnectors







Dimensions & Fixings

pages 2-8

refers to pages:

2 3 4

refers to pages:

5

6

refers to pages:

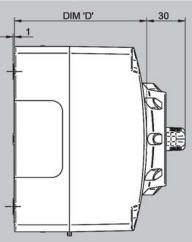
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Moulded Plastic Enclosure

switch

range

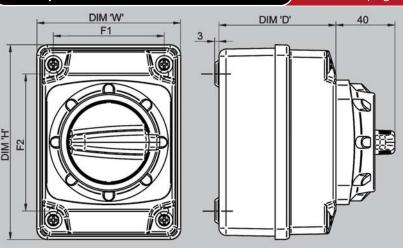
refers to pages 2-4



		Overal mensio		Fixing Details			
	H W D F1			F1	F2	Ø	
Size A	135	100	95	85	98.5	5.5	
Size B	175	130	115	115	135	5.5	

Deep Drawn Steel Enclosure

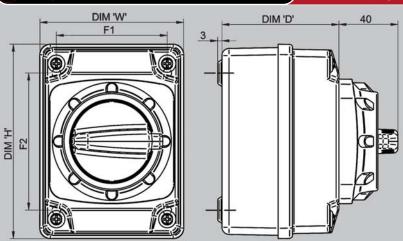
refers to pages **5-6**



	Overall Dimensions			Fixing Details			
	H W D		D	F1	F2	Ø	
Size A	135	100	80	60	95	5.5	
Size B	175	130	100	85	130	5.5	

Deep Drawn Stainless Steel Enclosure

refers to pages 7-8



	Dimensions			Details			
	Н	W	D	F1	F2	Ø	
Size A	135	100	80	60	95	5.5	
Size B	175	130	100	85	130	5.5	



Dimensions & Fixings

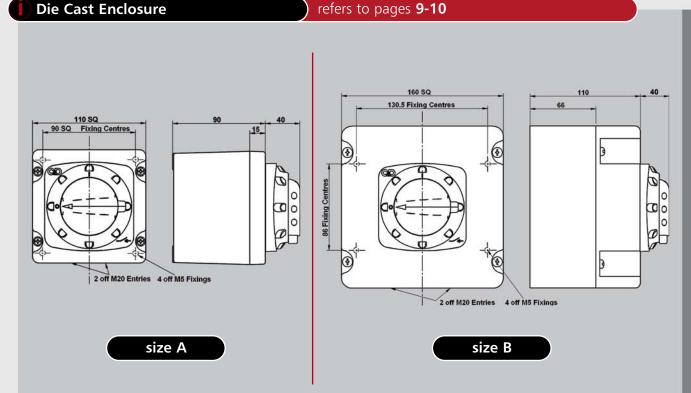
pages 9-12

refers to pages:

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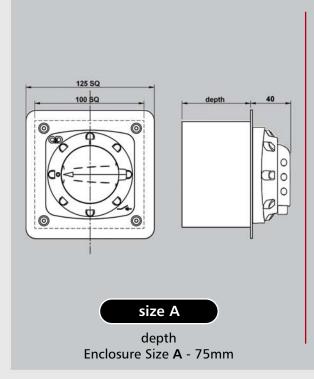
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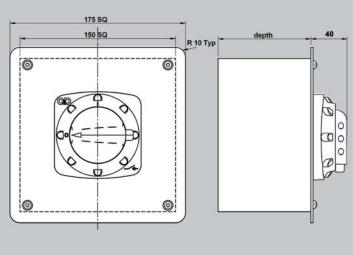
refers to pages:



Flush Enclosure

refers to pages 11-12



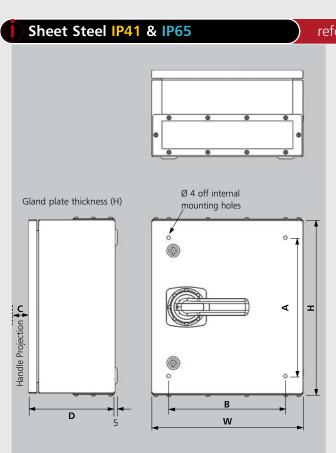


size B & C

depth
Enclosure Size: **B** - 75mm Size **C** - 100mm

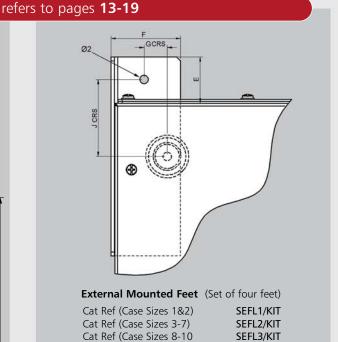






	Case Sizes											
Dim	1	2	3	4	5	6	7	8	9	10		
н	250	250	400	500	550	750	750	900	900	1000		
w	250	300	350	350	450	450	600	600	600	750		
D	100	200	200	200	250	275	300	300	400	300		
Α	170	170	320	420	470	670	670	820	820	920		
В	170	220	270	270	370	370	520	520	520	670		
С	40	67	67	67	67	67	67	67	67	67		
Ø	6.5	6.5	8.5	8.5	8.5	8.5	8.5	10.5	10.5	10.5		

	External Feet												
E	35	35	35	35	35	35	35	35	35	35			
F	53	53	58	58	58	58	58	58	58	58			
G	18	18	13	13	13	13	13	13	13	13			
J	58	58	58	58	58	58	58	58	58	58			
Ø2	6.5	6.5	8.5	8.5	8.5	8.5	8.5	10.5	10.5	10.5			



Enclosure Data

IP41 & IP65 available in sheet steel. IP65 also available in Stainless Steel.

Finish

IP41 & IP65	IP65 only
Sheet steel (Grey) Iron Phosphate pre treatment + Powder coat	Stainless Steel Grade 304 Finely grained surface
RAL 7035 (Light grey) textured finish.	surface

Hinges

Metal with quick release pins.

Cabinet Door Locks

All metal locks supplied with one key per enclosure.

	IP41	IP65
Enclosure Sizes 1 & 2	(Two screw fixings)	1 Lock
Enclosure Sizes 3 - 9	2 Locks	2 Locks
Enclosure Size 10	3 Locks	3 Locks

Gland Plates

All enclosures supplied with a removable gland plate on the top & bottom faces finished to match the enclosure.

Chassis Plate

Above case size 1, all assemblies are supplied with the switching element mounted on a removable internal chassis plate. Material - 2mm galvanised steel.

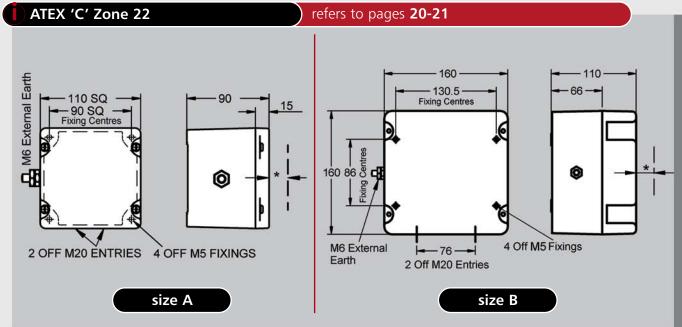


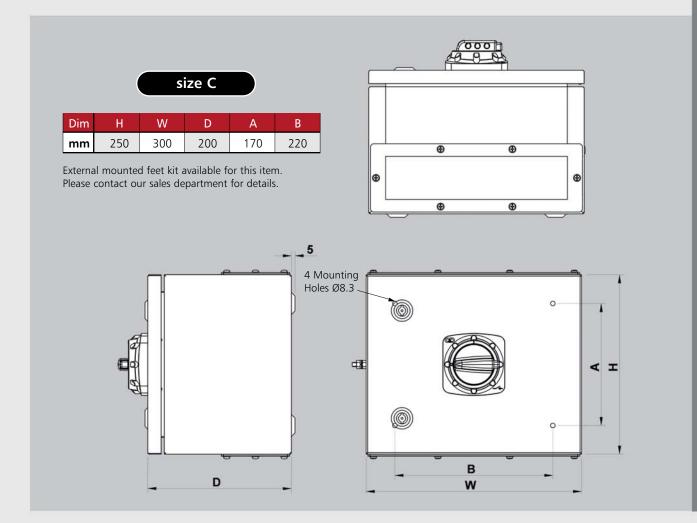


Dimensions & Fixings

pages 20-21



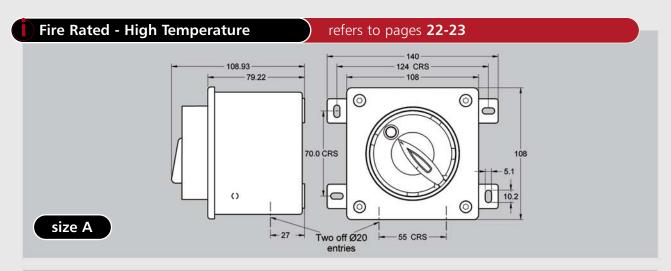


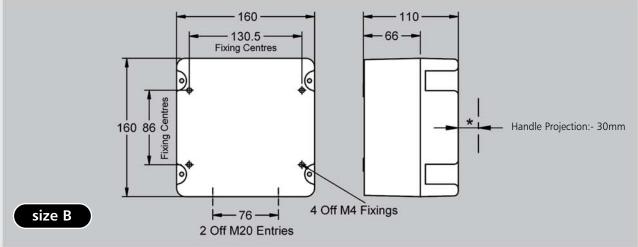


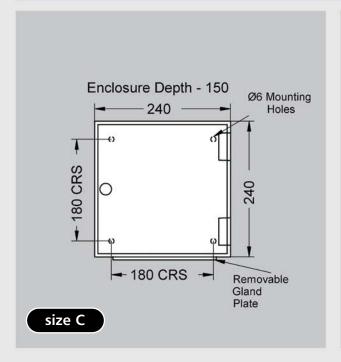


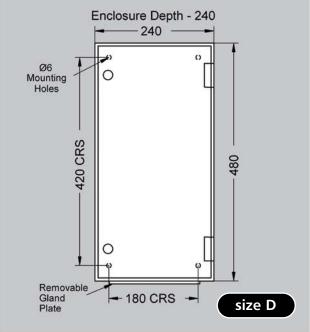
switch

range











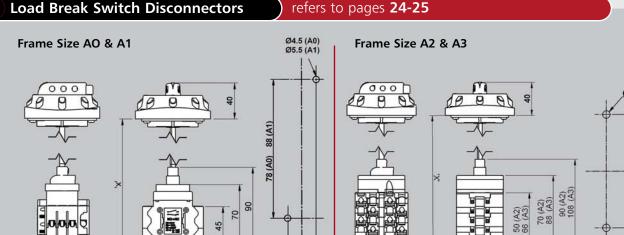


Dimensions for the 20A & 40A 6 Pole + 2 E/B Aux versions

pages 20-21







25 (A0) 40 (A1)

Frame Size В A0 (16A-40A) 36 70 13.5 A1 (63A-80A) 54 76 18

В

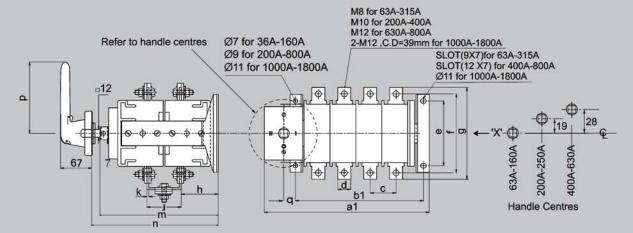
switch

range

Minimum fitting space - 105mm Maximum fitting space - 280mm

Load Break Changeover Switch Disconnectors refers to pages 28-29

35 DIN RAIL



Rating	a1	b1	С	d	е	f	g	h	j	k	m	n	р	q	frame size
63A	255.5	198.5	40	20	100	122	142	58	51	2.0	182.5	195-295	145		
80A	255.5	198.5	40	20	100	122	142	58	51	2.0	182.5	195-295	145		
100A	255.5	198.5	40	20	100	122	142	58	51	2.0	182.5	195-295	145		C1
125A	255.5	198.5	40	20	100	122	142	57	53	3.0	182.5	195-295	145	18	
160A	255.5	198.5	40	20	100	122	142	57	53	3.0	182.5	195-295	145		
200A	309.5	252	61	25	124	138	163	65.5	81	4.0	242	255-355	145		C2
250A	309.5	252	61	25	124	138	163	65.5	81	4.0	242	255-355	145		(2
400A	352	276	70	25	150	180	205	85	96	4.0	262	300-400	220	26	63
630A	352	276	70	40	150	185	223	84	98	5.0	262	300-400	220	20	C3



refers to pages:

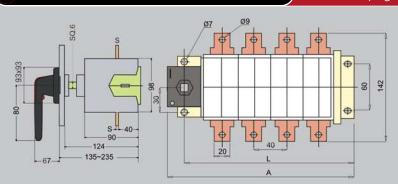


Dimensions & Fixings

pages 26-27

26 27

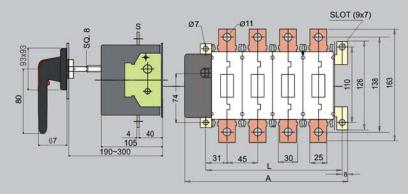
Load Break Switch Disconnectors refers to pages 26-27



100A - 160A

	A	4	L	S	
Rating	3P	4P	3P	4P	-
100A	190	230	160	200	2
160A	190	230	160	200	3

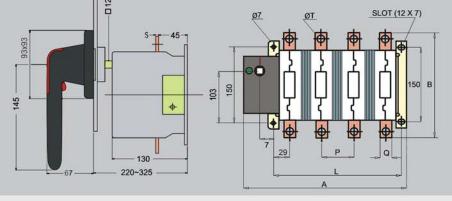
Frame Size B1



200A - 315A

	A	4	l	S	
Rating	3P	4P	3P	4P	-
200A-315A	195	240	155.5	200.5	4

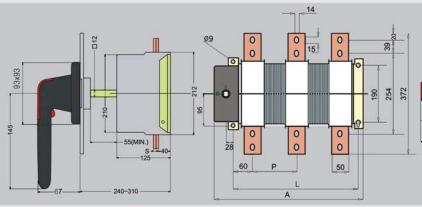
Frame Size B2



400A - 800A											
	F	4	В	L							
Rating	3P	4P	3P	3P	4P						
400A	211	257	205	151	197						
600A	244	306	223	183	245						
800A	260	330	223	199	269						

	Р	Ŷ	S	ı I
Rating	3P	4P	3P	3P
400A	211	257	205	151
600A	244	306	223	183
800A	260	330	223	199

Frame Size B3



1000A - 1250A

	Α		Į	_		
Rating	3P	4P	3P	4P	Р	S
1000A-1250A	343	423	278	358	80	12

Frame Size B4



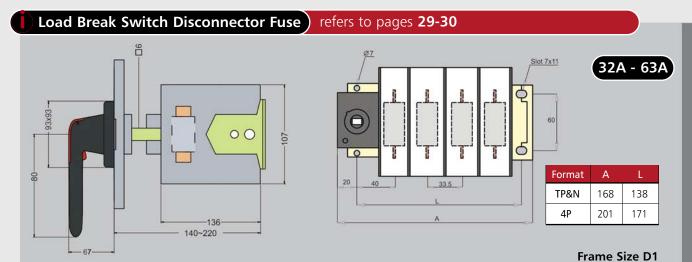
Dimensions & Fixings

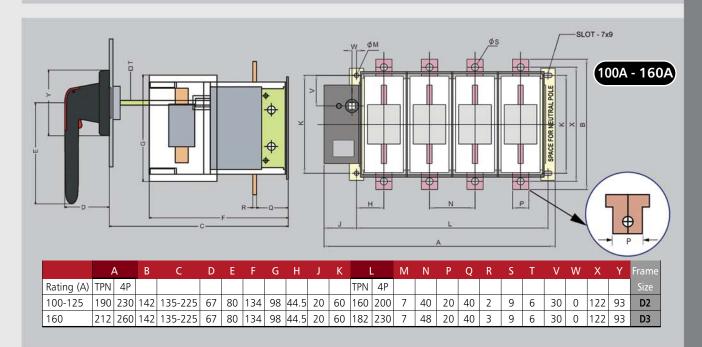
pages 29-30

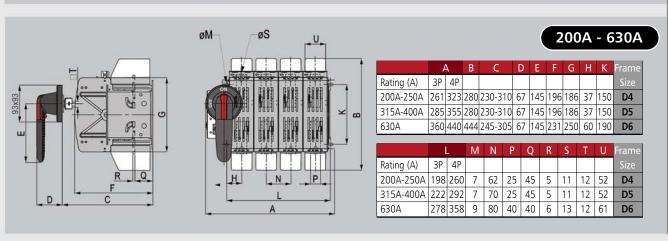


29

30









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