



Low Voltage Products

# ABB Low Voltage Essentials Contractor/Installer Products

# ABB Low Voltage Essentials

## Contractor/Installer Products

Within this catalogue, you will find products for contractors/wholesalers available from stock from ABB Low Voltage Products in the UK and via our expanding distributor network which can be located in the links section of our website: <http://www.abb.co.uk/lowvoltage>

Our global range of Low Voltage Products not covered in our Low Voltage Essentials stock product catalogues are available on factory lead times. See overleaf for our complete range of technical catalogues. Alternatively please visit our website: <http://www.abb.co.uk/lowvoltage>

As well as our range of contractor/wholesaler products contained in this catalogue, we have a comprehensive range of industrial products too, with the same emphasis on providing items from stock, all of which are included in our catalogue **Low Voltage Essentials - Industrial and Automation Products**.

ABB has a reputation for manufacturing and supplying quality low voltage components, the result of our on-going research and development programme. Our product ranges are supported by full and extensive technical documentation and the page opposite shows some of the major supporting catalogues. In addition, a visit to our website at <http://www.abb.co.uk/lowvoltage> will provide you with a wealth of product information including catalogue downloads, cad drawings and product configurators.”



### Contractor LV Essentials

<http://view.digi-page.net/?id=1TXD00000P0209>



### Industrial LV Essentials

<http://view.digi-page.net/?id=1TXD000001P0210>

To view these publications on line with our turning page technology type the URLs into your web browser, you do not have to download pdf files. Save the URLs in your favourites for future viewing.

# ABB Low Voltage Technical Publications

## Integrated Control Range



1SBC100155C0201



## Block Contactors



1SBC100122C0202

## Pilot Devices



1SFC151003C0201

## Soft Starters



1SFC132004C0201

## Relay & Timers



2CDC110004C0206

## Installation Equipment



2CSC400002D0208

## KNX Equipment



2CDC500007B0207

## Wiring Accessories



1SXF610007C0201

## Watchdog PIRs



9AKK104295D5667

## MCCBs



1SDC210015D0204

## ACBs



1SDC200006D0207

Our main technical catalogues are illustrated on this page.  
Visit the ABB Library at:  
<http://www.abb.com/abblibrary/DownloadCenter/>  
or enter the catalogue part number into a search engine to  
download the catalogue(s) you require.

## Switch Fuses



1SCC311013C0201

## Switch Disconnectors



1SCC301001C0201

## Changeover Switches



1SCC303003C0201

## XR SlimLine Switch Fuses



1SEC311001C0201

## Cam Switches



1SCC302003C0201



## Industrial LV Essentials



1TXD000001P0210

## 5000 Series



1SNC160001C0207

## SNK Series



1SNK161001C0201

# General Information

## Wholesales and Stockists

We have created two dedicated publications focussing on our core products for industrial automation and contractor/installer markets.

You will find information on our stocked products including brief technical specification, short code, order code and product hierarchy. (Example below)

Plastic Pushbutton Stations		Product Hierarchy 3600003	
Description	Part No	Order Code	Price £
Start/Green and Stop/Red	2GORC	1TVL211000P3111	31.53
Start/Green and Red/Emergency Stop 40mm (twist release) to IEC60947-5-5	2GORSC-EN	1TVL211000P3112	41.07

The Product Hierarchy has been included to assist in identifying discounts for particular product ranges when used in conjunction with the customer discount structure file.

By focusing on core products, we are confident that the majority of your requirements can be satisfied from stock by selecting products from the Low Voltage Essentials catalogues. Of course, our full range of products is still available to you, but on factory lead times.

We have also included complimentary items that support other products in our range. These products are not normally stocked.

As a customer, you can also take advantage of the services provided by our web based on-line solutions, MyABB.



From this portal you can obtain price and availability, check order status, obtain copy documentation and place orders on-line 24/7/365. If you have not already registered, you can do this by talking to your local ABB sales engineer.



# Contact Us

## Knowledge Base

General Enquiries: [LV.Enquiries@gb.abb.com](mailto:LV.Enquiries@gb.abb.com)  
Customer Services: [LV.CustomerService@gb.abb.com](mailto:LV.CustomerService@gb.abb.com)  
Technical: [LV.TechnicalSupport@gb.abb.com](mailto:LV.TechnicalSupport@gb.abb.com)

## Sales Desk

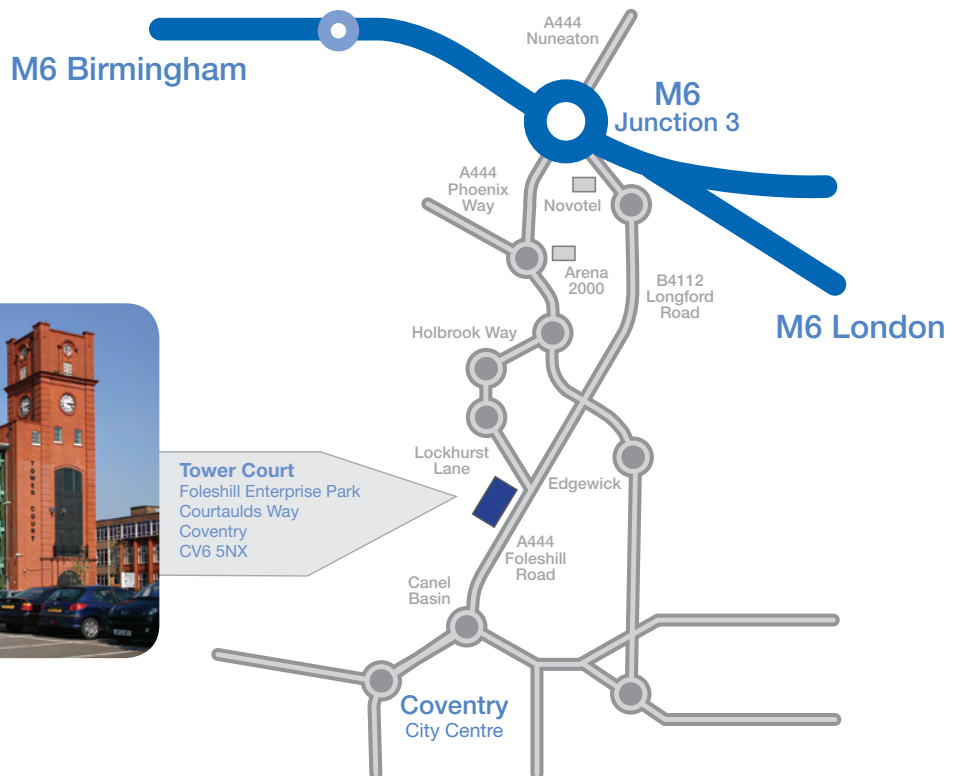
To find your nearest stockists, please visit:  
<http://www.abb.co.uk/lowvoltage>

Telephone: 02476 368676  
Facsimile: 02476 368401  
Credit Control: 01480 475321

If you already have an account you can place orders:  
Online: <http://online.abb.com/bol>  
Email: [orders.lvp@gb.abb.com](mailto:orders.lvp@gb.abb.com)  
Facsimile: 02476 368401



**Tower Court**  
Foleshill Enterprise Park  
Courtaulds Way  
Coventry  
CV6 5NX



This price list supercedes all previously issued prices.

All prices are in £'s Sterling and do not include VAT.

Every effort has been made to ensure that the information given in this publication is correct, and we accept no liability in respect of contingencies arising from errors.

All goods are offered subject to our Terms of Tender and Sale, Form TS.2c see pages 83/84

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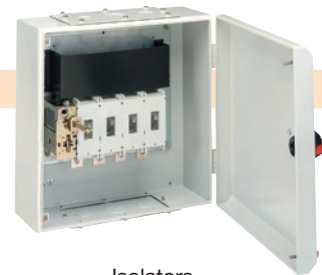
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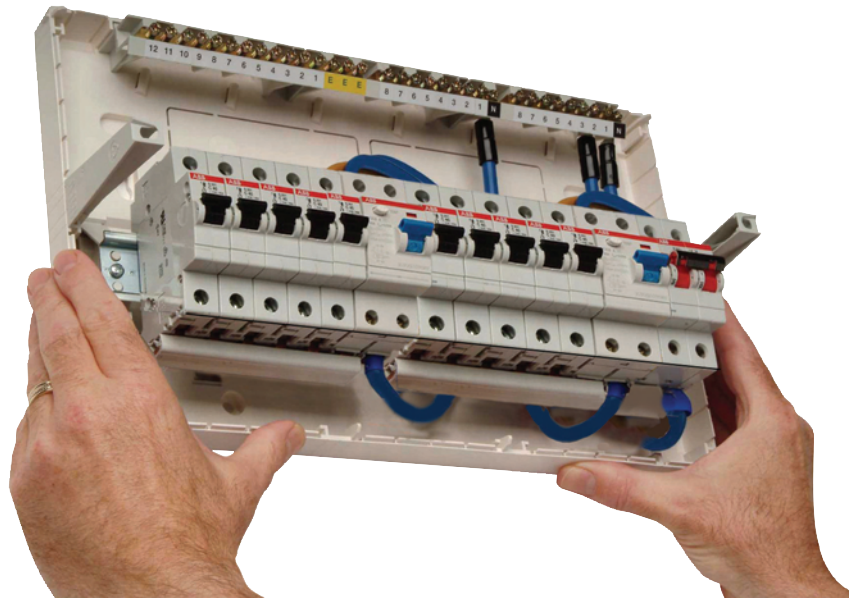
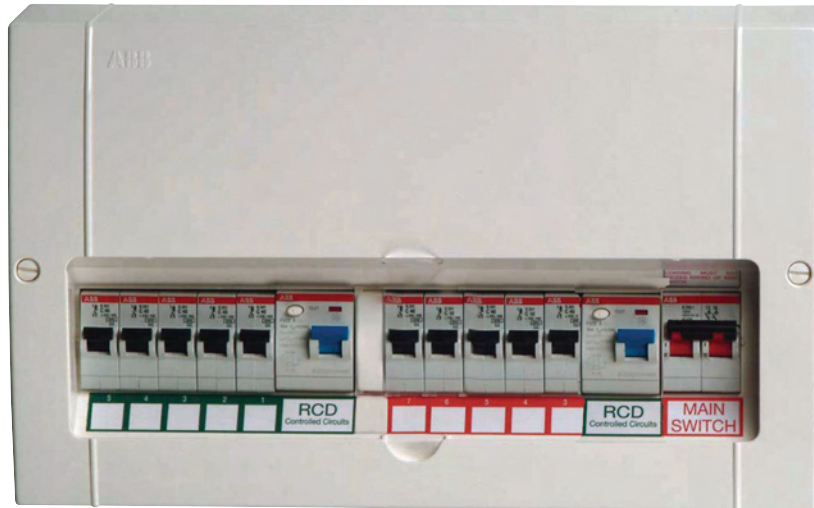
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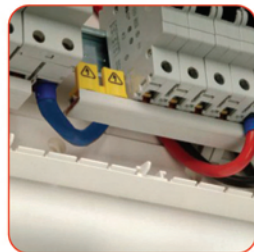
# Housemaster - Consumer Units

## Overview

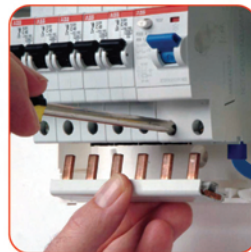
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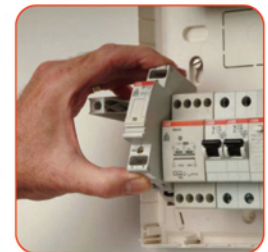
Unique Space Saving  
Sliding Door



TRUE FLEXIBLE  
SPLIT LOAD - Less  
stock, on site flexibility



FULLY SHROUDED BUSBAR  
- Easier and quicker to fit



DIN RAIL MOUNTED  
COMPONENTS  
Bell Transformers, timers,  
contactors etc.

[www.abb.co.uk/lowvoltage](http://www.abb.co.uk/lowvoltage)

email [LV.enquiries@gb.abb.com](mailto:LV.enquiries@gb.abb.com)

Telephone 02476 368500

Facsimile 02476 368401

# Housemaster - Consumer Units

## Moulded Enclosures



### Moulded Enclosure to BS EN 60439-3

- Supplied factory fitted with switch disconnecter and/or RCD, specification as table. Unit comes complete with 4 blanking plates, shrouded busbar, terminal bars and installation instructions.
- Colour RAL9010 Moulded
- Adaptable split load and 17th Edition Versions.

Way Combinations	Incomer Isolator	RCD	Split Load		Part No	Product Hierarchy 3600001	
			Isolator	RCD		Order Code	Price £
4	100A		-	-	HMMS4C	1SPE007712F0111	29.22
6	100A		-	-	HMMS6C	1SPE007712F0211	34.53
10	100A		-	-	HMMS10C	1SPE007712F0311	40.50
14	100A		-	-	HMMS14C	1SPE007712F0411	44.36
18	100A		-	-	HMMS18C	1SPE007712F0511	57.69
4	-	80A/30mA	-	-	HMRC4C	1SPE007712F0112	87.33
6	-	100A/30mA	-	-	HMRC6C	1SPE007712F0212	100.13
10	-	100A/30mA	-	-	HMRC10C	1SPE007712F0312	115.31
14	-	100A/30mA	-	-	HMRC14C	1SPE007712F0412	120.33
18	-	100A/30mA	-	-	HMRC18C	1SPE007712F0512	135.75
4+4 3+5, 2+6 5+3, 6+2	-	-	100A	80A/30mA	HMSL4+4C	1SPE007712F0313	120.48
6+6 4+8, 5+7 8+4, 7+5	-	-	100A	80A/30mA	HMSL6+6C	1SPE007712F0413	129.70
8+8 7+9, 9+7	-	-	100A	80A/30mA	HMSL8+8C	1SPE007712F0513	143.11

### 17th Edition Moulded Enclosure to BS EN 60439-3

- Colour RAL9010 Moulded

No of Ways	Split Load Dual RCD		Part No	Product Hierarchy 3600001	
	Isolator	RCD x 2		Order Code	Price £
5 + 5	100A	63A/30mA	HMSL552C	1SPE007712F0416	131.56
7 + 7	100A	63A/30mA	HMSL772C	1SPE007712F0516	135.67

### Dimensions

Part No	Height mm	Width mm	Depth mm
HMMS4C - HMRC4C	226	190	123
HMMS6C - HMRC6C	226	230	123
HMMS10C - HMRC10C - HMSL4+4C	226	300	123
HMMS14C - HMRC14C - HMSL6+6C - HMSL552C	226	370	123
HMMS18C - HMRC18C - HMSL8+8C - HMSL772C	226	440	123

# Housemaster - Consumer Units

## Steel Enclosures

1



HSSL8+8C

### Steel Enclosure to BS EN 60439-3

- Supplied factory fitted with switch disconnecter and/or RCD, specification as table. Unit comes complete with shrouded busbar, earth and neutral bars and installation instructions.
- Colour RAL7035 Steel
- Adaptable split load versions.

Way Combinations	Incomer Isolator	RCD	Split Load		Part No	Product Hierarchy 3600001		
			Isolator	RCD		Order Code	Price £	
4	-	100A	-	-	HSMS4C	1SKB106142C4001	32.05	
7	-	100A	-	-	HSMS7C	1SKB109142C4001	38.03	
11	-	100A	-	-	HSMS11C	1SKB113142C4001	43.20	
16	-	100A	-	-	HSMS16C	1SKB118142C4001	48.89	
20	-	100A	-	-	HSMS20C	1SKB122142C4001	63.27	
4	-	-	80A/30mA	-	HSRC4C	1SKB106142C6001	92.77	
7	-	-	100A/30mA	-	HSRC7C	1SKB109142C6001	108.11	
11	-	-	100A/30mA	-	HSRC11C	1SKB113142C6001	118.55	
16	-	-	100A/30mA	-	HSRC16C	1SKB118142C6001	124.34	
20	-	-	100A/30mA	-	HSRC20C	1SKB122142C6001	140.77	
4+4	3+5, 2+6	-	-	100A	80A/30mA	HSSL4+4C	1SKB113142C8001	122.21
6+6	4+8, 5+7	-	-	100A	80A/30mA	HSSL6+6C	1SKB118142C8001	131.42
8+8	7+9, 9+7	-	-	100A	80A/30mA	HSSL8+8C	1SKB122142C8001	145.86

### Dimensions

Part No	Height mm	Width mm	Depth mm
HSMS4C - HSRC4C	256	155	110
HSMS7C - HSRC7C	256	210	110
HSMS11C - HSRC11C - HSSL4+4C	256	282	110
HSMS16C - HSRC16C - HSSL6+6C	256	368	110
HSMS20C - HSRC20C - HSSL8+8C	256	440	110

# Housemaster - Consumer Units

## Outgoing MCBs & RCBOs

### S200 Series Type B&C - MCBs - BS EN 60898 6kA



S201

#### Single Pole

Rating Amps	kA	Part No	Product Hierarchy 2400007		Product Hierarchy 2400007	
			Type B Order Code	Price	Type C Order Code	Price
6	6	S201•6	2CDS251001R0065	8.19	2CDS251001R0064	8.19
10	6	S201•10	2CDS251001R0105	8.19	2CDS251001R0104	8.19
16	6	S201•16	2CDS251001R1165	8.19	2CDS251001R0164	8.19
20	6	S201•20	2CDS251001R0205	8.19	2CDS251001R0204	8.19
25	6	S201•25	2CDS251001R0255	8.19	2CDS251001R0254	8.19
32	6	S201•32	2CDS251001R0325	8.19	2CDS251001R0324	8.19
40	6	S201•40	2CDS251001R0405	8.19	2CDS251001R0404	8.19
50	6	S201•50	2CDS251001R0505	8.47	2CDS251001R0504	8.47
63	6	S201•63	2CDS251001R0635	8.88	2CDS251001R0634	8.88

- Add tripping curve for B or C eg: S201B6

**Type B** - Suitable for small inrush or switching surges, heating loads and tungsten lighting

**Type C** - Suitable for moderate switching surges for sort duration. eg. discharge lamps.

### RCBO single pole, solid neutral to BS EN 61009



DS271AC-C10/0.03

#### Type B

Rating Amps	kA	Sensitivity	Part No	Product Hierarchy 2500002	
				Order Code	Price
6	10	30mA	DS271AC-B6/0.03	2CSR175092R1065	63.27
10	10	30mA	DS271AC-B10/0.03	2CSR175092R1105	63.27
16	10	30mA	DS271AC-B16/0.03	2CSR175092R1165	63.27
20	10	30mA	DS271AC-B20/0.03	2CSR175092R1205	63.27
25	10	30mA	DS271AC-B25/0.03	2CSR175092R1255	63.27
32	10	30mA	DS271AC-B32/0.03	2CSR175092R1325	63.27

#### Type C

6	10	30mA	DS271AC-C6/0.03	2CSR175092R1064	63.27
10	10	30mA	DS271AC-C10/0.03	2CSR175092R1104	63.27
16	10	30mA	DS271AC-C16/0.03	2CSR175092R1164	63.27
20	10	30mA	DS271AC-C20/0.03	2CSR175092R1204	63.27
25	10	30mA	DS271AC-C25/0.03	2CSR175092R1254	63.27
32	10	30mA	DS271AC-C32/0.03	2CSR175092R1324	63.27

**Type B** - Suitable for small inrush or switching surges, heating loads and tungsten lighting

**Type C** - Suitable for moderate switching surges for sort duration. eg. discharge lamps.

Supplied with 800mm flying neutral and functional earth leads.

# Housemaster - Consumer Units

## Accessories



SA1



### Accessories

Description	Part No.	Product Hierarchy 2400002	
		Order Code	Price £
MCB padlock adaptor 3mm hasp	SA1	GJF1101903R0001	2.45
MCB padlock adaptor 6mm hasp	SA1E	GJF1101903R0004	3.55
Padlock with 2 keys	SA2	GJF1101903R0002	6.82
Moulded Housemaster connection bridge	HMCB	1SPE007712F0001	1.31
Moulded Housemaster spare 1 module blank	HMBS	1SPE007712F0002	1.31
Spare Housemaster Label Sheet	110381	110381	1.84
Spare 19 Module Busbar	PS 1/19/30	2CDL210001R3019	7.16
Spare End Cap for 19 Module Busbar (LH & RH End Cap)	PS-END 0	2CDL200001R0004	2.03
Busbar Cover for 5 unused ways or split into individuals	SZ-BSK	2CDL200001R0011	1.36
<b>For Steel Versions ONLY</b>			
12 module blank cover	SZ-BP1	GHL5301904R0001	2.08
1 module blank cover	SZ-BP2	GHS2701913R0002	0.33



# ArtLine - Consumer Units

## Overview



1



add your own picture or artwork



functional yet elegant



gives a splash of colour

# ArtLine - Consumer Units

## Enclosure and Doors

1



### Flush Mounted Consumer Unit

Description	Size	Product Hierarchy 3100004	
		Order Code	Price £
Consumer Unit	1 - 12 Modules	2CPX077619R9999	31.45
	2 - 24 Modules	2CPX077620R9999	35.98
	3 - 36 Modules	2CPX077621R9999	45.23
	4 - 48 Modules	2CPX077622R9999	54.97

Description	Size	Product Hierarchy 3100004	
		Order Code	Price £
Door (Standard Door)	1	2CPX030853R9999	13.75
	2	2CPX030854R9999	14.63
	3	2CPX030855R9999	18.91
	4	2CPX030856R9999	20.99

Additional ranges of doors are available on request



# ArtLine - Consumer Units

## Incoming & Outing Devices



### Incomers

Description	Size	Product Hierarchy 3100004	
		Order Code	Price £
Isolator Incoming Kit 100A Incomer	1	FMCU - 1ISO	61.18
	2	FMCU - 2ISO	66.97
	3	FMCU - 3ISO	71.52
	4	FMCU - 4ISO	73.79
RCD Incoming Kit 100A / 30mA Incomer	1	FMCU - 1RCD	153.44
	2	FMCU - 2RCD	157.40
	3	FMCU - 3RCD	163.77
	4	FMCU - 4RCD	169.98
Isolator & Twin RCD Kit 100A Incomer / 2 x 63A RCDs	2	FMCU - 2ISRCD	208.82
	3	FMCU - 3ISRCD	216.82
	4	FMCU - 4ISRCD	221.74

### S200 Series Type B&C - MCBs - BS EN 60898 6kA

Single Pole			Product Hierarchy 2400007		Product Hierarchy 2400007	
Rating Amps	kA	Part No	Type B Order Code	Price	Type C Order Code	Price
6	6	S201•6	2CDS251001R0065	8.19	2CDS251001R0064	8.19
10	6	S201•10	2CDS251001R0105	8.19	2CDS251001R0104	8.19
16	6	S201•16	2CDS251001R1165	8.19	2CDS251001R0164	8.19
20	6	S201•20	2CDS251001R0205	8.19	2CDS251001R0204	8.19
25	6	S201•25	2CDS251001R0255	8.19	2CDS251001R0254	8.19
32	6	S201•32	2CDS251001R0325	8.19	2CDS251001R0324	8.19
40	6	S201•40	2CDS251001R0405	8.19	2CDS251001R0404	8.19
50	6	S201•50	2CDS251001R0505	8.47	2CDS251001R0504	8.47
63	6	S201•63	2CDS251001R0635	8.88	2CDS251001R0634	8.88

• Add tripping curve for B or C eg: S201B6

**Type B** - Suitable for small inrush or switching surges, heating loads and tungsten lighting

**Type C** - Suitable for moderate switching surges for sort duration. eg. discharge lamps.

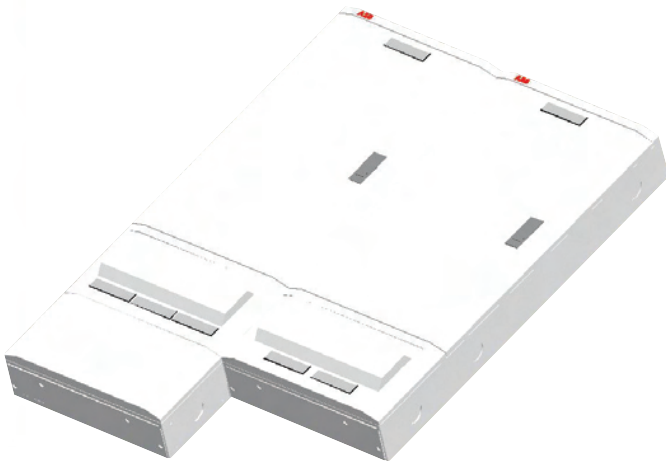
### Accessories

Description	Product Hierarchy 3100004	
	Order Code	Price £
Hollow Wall Set	2CPX062563R9999	3.57
Safety Lock	2CPX030870R9999	6.84

# Protecta - Type A & B Distribution Boards

## Overview

Utilising Europe's  
No.1 Selling MCB



Distribution Boards



Incoming Devices



Connection Kit  
(if required)



Outgoing Devices



For a complete distribution board you will need to select from the colour coded individual sections in the catalogue

# Protecta - Type A Distribution Boards

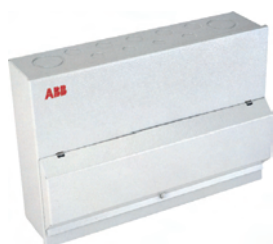
## Type A - SP&N Distribution Boards

- Constructed to BSEN60439 part 1 & 3. IP30 to BSEN60529. Finished in RAL7035
- Supplied without incomer, see incomer options page below
- Earth and neutral bars included
- Neutral link to incomer included
- Busbar rating 100A - 230v



1

## Type A - SP&N Distribution Boards



ECS107C



E202/100r



F202 AC-63/0.03

Number of Outgoing Ways	Part No	Product Hierarchy 4200001	
		Order Code	Price £
4 way SP&N	ECS104C	1SKB106142C2001	38.11
7 way SP&N	ECS107C	1SKB109142C2001	40.85
11 way SP&N	ECS111C	1SKB113142C2001	67.32
16 way SP&N	ECS116C	1SKB118142C2001	77.16
20 way SP&N	ECS120C	1SKB122142C2001	96.83

### Dimensions

Part No	Height mm	Width mm	Depth mm
ECS104C	255	155	110
ECS107C	255	210	110
ECS111C	255	282	110
ECS116C	255	368	110
ECS120C	255	440	110

### Incomer Options

Description	Rating (A)	Sensitivity (mA)	Part No.	Product Hierarchy 2700001	
				Order Code	Price £
Switch Disconnector 100A 2 pole (max cable 50mm <sup>2</sup> )			E202/100r	2CDE282001R0100	18.69
RCCB	63A 2 pole	30	F202 AC-63/0.03	2CSF202001R1630	73.58
RCCB	63A 2 pole	300	F202 AC-63/0.3	2CSF202001R3630	62.11
RCCB	80A 2 pole	30	F202 AC-80/0.03	2CSF202001R1800	91.04
RCCB	100A 2 pole	30	F202 AC-100/0.03	2CSF202001R1900	106.78



# Protecta - Type A Distribution Boards

## Outgoing MCBs



S201M

### S200M Series Type B&C - MCBs - BS EN 60898 10kA

Single Pole			Product Hierarchy 2400007		Product Hierarchy 2400004	
Rating Amps	kA	Part No	Type B Order Code	Price	Type C Order Code	Price
6	10	S201M•6	2CDS271001R0065	10.01	2CDS271001R0064	10.01
8	10	S201M•8	-	-	2CDS271001R0084	10.01
10	10	S201M•10	2CDS271001R0105	9.18	2CDS271001R0104	9.18
13	10	S201M•13	-	-	2CDS271001R0134	9.18
16	10	S201M•16	2CDS271001R0165	9.18	2CDS271001R0164	9.18
20	10	S201M•20	2CDS271001R0205	9.18	2CDS271001R0204	9.18
25	10	S201M•25	2CDS271001R0255	9.18	2CDS271001R0254	9.18
32	10	S201M•32	2CDS271001R0325	9.18	2CDS271001R0324	9.18
40	10	S201M•40	2CDS271001R0405	10.01	2CDS271001R0404	10.01
50	10	S201M•50	2CDS271001R0505	10.53	2CDS271001R0504	10.53
63	10	S201M•63	2CDS271001R0635	10.65	2CDS271001R0634	10.65

• Add tripping curve for B or C eg: S201MB6

**Type B** - Suitable for small inrush or switching surges, heating loads and tungsten lighting

**Type C** - Suitable for moderate switching surges for short duration. eg. discharge lamps.

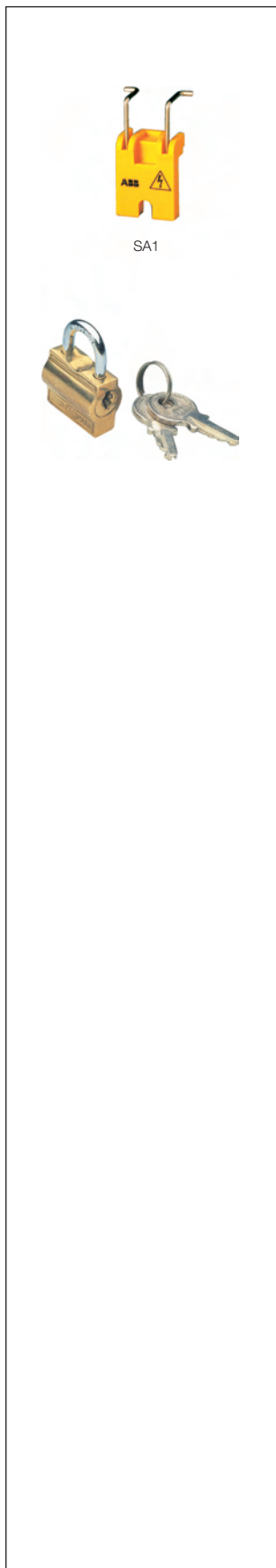
### S200 Series Type D - MCBs - single pole - BS EN 60898 6kA

Single Pole			Product Hierarchy 2400004	
Rating Amps	kA	Part No	Type D Order Code	Price
6	6	S201D6	2CDS251001R0061	10.79
10	6	S201D10	2CDS251001R0101	9.90
16	6	S201D16	2CDS251001R0161	9.90
20	6	S201D20	2CDS251001R0201	9.90
25	6	S201D25	2CDS251001R0251	9.90
32	6	S201D32	2CDS251001R0321	9.90
40	6	S201D40	2CDS251001R0401	10.79
50	6	S201D50	2CDS251001R0501	11.31
63	6	S201D63	2CDS251001R0631	11.42

**Type D** - Suitable for cable protection and high inrush applications such as transformers

# Protecta - Type A Distribution Boards

## Accessories



### Accessories

Description	Part No.	Product Hierarchy 2400002	
		Order Code	Price £
MCB padlock adaptor 3mm hasp	SA1	GJF1101903R0001	2.45
MCB padlock adaptor 6mm hasp	SA1E	GJF1101903R0004	3.55
Padlock with 2 keys	SA2	GJF1101903R0002	6.82
12 module blank cover	SZ-BP1	GHL5301904R0001	2.08
1 module blank cover	SZ-BP2	GHS2701913R0002	0.33
Spare Housemaster Label Sheet	110381	110381	1.84
Spare 19 Module Busbar	PS 1/19/30	2CDL210001R3019	7.16
Spare End Cap for 19 Module Busbar (LH & RH End Cap)	PS-END 0	2CDL200001R0004	2.03
Busbar Cover for 5 unused ways or split into individuals	SZ-BSK	2CDL200001R0011	1.36



# Protecta - Type B Distribution Boards & Pan Assemblies

## TP & N Distribution Boards & Pan Assemblies

1



### General Description

- Constructed to BS EN60439 part 1 & 3
- Enclosure finished in RAL7035
- Busbar rated 250A
- Voltage rating at 230/400v 50Hz
- Integral door latch with key
- Incoming devices up to 250A mounted in the board
- IP Ingress protection IP41 BSEN60529
- 4 - 24 TP&N ways
- Fault level 35kA
- Earth and neutral terminals included
- Reversible door



EPB25-312C

EPB25-PA308C

### TP&N Distribution Boards

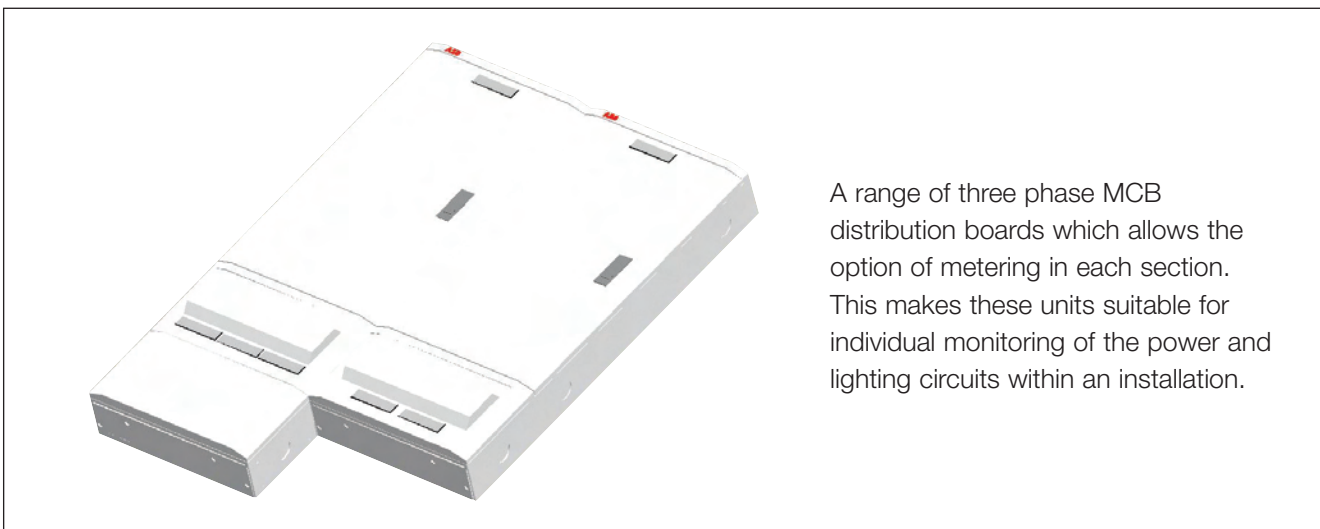
Outgoing Ways	Dimensions			Part No	Product Hierarchy 4200001	
	H	W	D		Order Code	Price £
4 way TP&N	502	400	125	EPB25-304C	1SKP804142C0059	115.98
6 way TP&N	560	400	125	EPB25-306C	1SKP806142C0059	132.71
8 way TP&N	610	400	125	EPB25-308C	1SKP808142C0059	150.12
12 way TP&N	718	400	125	EPB25-312C	1SKP812142C0059	183.13
16 way TP&N	830	400	125	EPB25-316C	1SKP816142C0059	261.08
20 way TP&N	1001	400	125	EPB25-320C	1SKP820142C0059	338.75
24 way TP&N	1140	400	125	EPB25-324C	1SKP824142C0059	427.19

### TP&N Pan Assemblies (for panel mounting)

Outgoing Ways	Dimensions			Part No	Product Hierarchy 4200001	
	H	W	D		Order Code	Price £
4 way TP&N	375	270	60	EPB25-PA304C	1SKP804100C0051	56.60
6 way TP&N	429	270	60	EPB25-PA306C	1SKP806100C0051	67.64
8 way TP&N	483	270	60	EPB25-PA308C	1SKP808100C0051	77.49
12 way TP&N	591	270	60	EPB25-PA312C	1SKP812100C0051	96.96
16 way TP&N	699	270	60	EPB25-PA316C	1SKP816100C0051	119.77
20 way TP&N	874	270	60	EPB25-PA320C	1SKP820100C0051	185.94
24 way TP&N	1014	270	60	EPB25-PA324C	1SKP824100C0051	232.31

# Protecta - Type B Distribution Boards & Pan Assemblies

## Split Load Type B - TP & N Distribution Boards



A range of three phase MCB distribution boards which allows the option of metering in each section. This makes these units suitable for individual monitoring of the power and lighting circuits within an installation.



### General Description

- Constructed to BS EN60439 part 1 & 3
- Enclosure finished in RAL7035
- Busbar rated 250A
- Voltage rating at 230/400v 50Hz
- Integral door latch with key
- Incoming devices 125A & 250A
- IP Ingress protection IP41 BSEN60529
- 4+4 - 24+24 TP&N ways
- Incoming devices are included
- Earth and neutral terminals included
- Reversible door

### Split Load Type B TP&N Distribution Boards

Outgoing Ways	Dimensions			Incomer	Product Hierarchy 4200001	
	H	W	D		Order Code	Price £
4+4 way TP&N	902	800	125	125A	EPB25-0404S125C	1690.11
6+6 way TP&N	960	800	125	125A	EPB25-0606S125C	1717.42
8+8 way TP&N	1010	800	125	125A	EPB25-0808S125C	1769.02
12+12 way TP&N	1118	800	125	125A	EPB25-1212S125C	1839.69
16+16 way TP&N	1230	800	125	125A	EPB25-1616S125C	1934.98
20+20 way TP&N	1401	800	125	125A	EPB25-2020S125C	2116.37
24+24 way TP&N	1540	800	125	125A	EPB25-2424S125C	2214.68
4+4 way TP&N	902	800	125	250A	EPB25-0404S250C	1891.15
6+6 way TP&N	960	800	125	250A	EPB25-0606S250C	1918.46
8+6 way TP&N	1010	800	125	250A	EPB25-0808S250C	1970.06
12+12 way TP&N	1118	800	125	250A	EPB25-1212S250C	2040.75
16+16 way TP&N	1230	800	125	250A	EPB25-1616S250C	2136.02
20+20 way TP&N	1401	800	125	250A	EPB25-2020S250C	2317.42
24+24 way TP&N	1540	800	125	250A	EPB25-2424S250C	2415.72

For metering options see page 27

Please note: The above boards are built to order - Lead times available on request

# Protecta - Type B Distribution Boards & Pan Assemblies



E203



F204AC



250A MCCB



## Incomer Options

Description	Rating (A)	(mA)	Part No	Product Hierarchy 2500001	
				Order Code	Price £
Switch Disconnecter (no kit required)	100A 3 pole		E203/100r	2CDE283001R0100	37.03
Switch Disconnecter (no kit required)	125A 3 pole		E203/125r	2CDE283001R0125	53.46
Switch Disconnecter MCCB•	250A 3 pole		1SDA051327R1	1SDA051327R1	198.81

• Require Kit EPBKIT1-T3C1

RCCB (requires EPB Kit 2C)	63A 4 pole	30	F204AC-63/0.03	2CSF204001R1630	105.91
RCCB (requires EPB Kit 2C)	63A 4 pole	100	F204AC-63/0.1	2CSF204001R2630	76.20
RCCB (requires EPB Kit 2C)	63A 4 pole	300	F204AC-63/0.3	2CSF204001R3630	69.59
RCCB (requires EPB Kit 2C)	80A 4 pole	30	F204AC-80/0.03	2CSF204001R1800	131.74
RCCB (requires EPB Kit 2C)	100A 4 pole	30	F204AC-100/0.03	2CSF204001R1900	148.24
RCCB (requires EPB Kit 2C)	100A 4 pole	100	F204AC-100/0.1	2CSF204001R2900	148.24
RCCB time delayed (requires EPB Kit 2C)	100A 4 pole	300	F204AC-100/0.3	2CSF204001R3900	148.24

Description	Rating (A)	Part No	Product Hierarchy 3000004	
			Order Code	Price £
MCCB T3 - 36kA Require Kit EPBKIT1-T3C1	100A 3 pole	1SDA051243R1	1SDA051243R1	186.57
	125A 3 pole	1SDA051244R1	1SDA051244R1	205.76
	160A 3 pole	1SDA051245R1	1SDA051245R1	262.00
	200A 3 pole	1SDA051246R1	1SDA051246R1	262.00
	250A 3 pole	1SDA051247R1	1SDA051247R1	361.99

All the above require an EPBKIT1-T3C1

## Connection Kits

Description	Part No	Product Hierarchy 4200001	
		Order Code	Price
F200 RCD Connection kit	EPBKIT2C	1SKA142000C1001	19.94
Coupling kit side by side	EPBKIT5	1SKA145000C0001	13.97
Spare 100A TP Isolator kit	EBKIT8C	1SKA148000C1001	15.75
250A Single phase kit	EPBKIT6C1-25	1SKA146000C5001	51.60
Single phase connection kit	EPBKIT6C1	1SKA146000C3001	12.37
250A MCCB connection kit	EPBKIT1-T3C1	1SKA141000C3003	25.44
70mm Cable connection kit	EPBKIT4C1	1SKA144000C3001	14.44
120mm Cable connection kit	EPBKIT3C1	1SKA143000C3001	18.58
Label kit for 24 way EPB board	EPBKIT0-7	1SKA140000C1008	24.75
Blank spare flange plate	EPBGP1UK	1SKA130002C0001	7.57



# Protecta - Type B Distribution Boards & Pan Assemblies

## Outgoing MCBs

# B



S201M



S202M



S203M

### S200M Series Type B - MCBs - BS EN 60898 10kA

Suitable for cable protection and small inrush or switching surges, heating loads and tungsten lighting

#### Single Pole

Rating Amps	kA	Part No	Product Hierarchy 2400004	
			Order Code	Price
6	10kA	S201MB6	2CDS271001R0065	10.01
10	10kA	S201MB10	2CDS271001R0105	9.18
16	10kA	S201MB16	2CDS271001R0165	9.18
20	10kA	S201MB20	2CDS271001R0205	9.18
25	10kA	S201MB25	2CDS271001R0255	9.18
32	10kA	S201MB32	2CDS271001R0325	9.18
40	10kA	S201MB40	2CDS271001R0405	10.01
50	10kA	S201MB50	2CDS271001R0505	10.53
63	10kA	S201MB63	2CDS271001R0635	10.65

#### Double Pole

6	10kA	S202MB6	2CDS272001R0065	28.75
10	10kA	S202MB10	2CDS272001R0105	26.41
13	10kA	S202MB13	2CDS272001R0135	26.41
16	10kA	S202MB16	2CDS272001R0165	26.41
20	10kA	S202MB20	2CDS272001R0205	26.41
25	10kA	S202MB25	2CDS272001R0255	26.41
32	10kA	S202MB32	2CDS272001R0325	26.41
40	10kA	S202MB40	2CDS272001R0405	28.82
50	10kA	S202MB50	2CDS272001R0505	30.20
63	10kA	S202MB63	2CDS272001R0635	30.46

#### Triple Pole

6	10kA	S203MB6	2CDS273001R0065	42.69
10	10kA	S203MB10	2CDS273001R0105	40.04
16	10kA	S203MB16	2CDS273001R0165	40.04
20	10kA	S203MB20	2CDS273001R0205	40.04
25	10kA	S203MB25	2CDS273001R0255	40.04
32	10kA	S203MB32	2CDS273001R0325	40.04
40	10kA	S203MB40	2CDS273001R0405	42.69
50	10kA	S203MB50	2CDS273001R0505	44.83
63	10kA	S203MB63	2CDS273001R0635	45.26

# Protecta - Type B Distribution Boards & Pan Assemblies

## Outgoing MCBs

C



S201M



S202M

### S200M Series Type C - MCBs - BS EN 60898 10kA

Suitable for cable protection and moderate switching surges for short duration, eg. discharge lamps.

#### Single Pole

Rating Amps	kA	Part No	Product Hierarchy 2400004	
			Order Code	Price
0.5	10kA	S201MC0.5	2CDS271001R0984	10.65
1	10kA	S201MC1	2CDS271001R0014	10.65
2	10kA	S201MC2	2CDS271001R0024	10.53
3	10kA	S201MC3	2CDS271001R0034	10.53
4	10kA	S201MC4	2CDS271001R0044	10.32
6	10kA	S201MC6	2CDS271001R0064	10.01
8	10kA	S201MC8	2CDS271001R0084	10.01
10	10kA	S201MC10	2CDS271001R0104	9.18
13	10kA	S201MC13	2CDS271001R0134	9.18
16	10kA	S201MC16	2CDS271001R0164	9.18
20	10kA	S201MC20	2CDS271001R0204	9.18
25	10kA	S201MC25	2CDS271001R0254	9.18
32	10kA	S201MC32	2CDS271001R0324	9.18
40	10kA	S201MC40	2CDS271001R0404	10.01
50	10kA	S201MC50	2CDS271001R0504	10.53
63	10kA	S201MC63	2CDS271001R0634	10.65

#### Double Pole

0.5	10kA	S202MC0.5	2CDS272001R0984	30.46
1	10kA	S202MC1	2CDS272001R0014	30.46
2	10kA	S202MC2	2CDS272001R0024	30.20
3	10kA	S202MC3	2CDS272001R0034	30.20
6	10kA	S202MC6	2CDS272001R0064	28.75
8	10kA	S202MC8	2CDS272001R0084	26.41
10	10kA	S202MC10	2CDS272001R0104	26.41
16	10kA	S202MC16	2CDS272001R0164	26.41
20	10kA	S202MC20	2CDS272001R0204	26.41
25	10kA	S202MC25	2CDS272001R0254	26.41
32	10kA	S202MC32	2CDS272001R0324	26.41
40	10kA	S202MC40	2CDS272001R0404	28.82
50	10kA	S202MC50	2CDS272001R0504	30.20
63	10kA	S202MC63	2CDS272001R0634	30.46

# Protecta - Type B Distribution Boards & Pan Assemblies

## Outgoing MCBs

**C**



S203M

### S200M Series Type C - MCBs - BS EN 60898 10kA

Suitable for cable protection and moderate switching surges for short duration. eg. discharge lamps.

Triple Pole			Product Hierarchy 2400004	
Rating Amps	kA	Part No	Order Code	Price
1	10kA	S203MC1	2CDS273001R0014	45.26
2	10kA	S203MC2	2CDS273001R0024	44.83
3	10kA	S203MC3	2CDS273001R0034	44.83
4	10kA	S203MC4	2CDS273001R0044	44.00
6	10kA	S203MC6	2CDS273001R0064	42.69
10	10kA	S203MC10	2CDS273001R0104	40.04
13	10kA	S203MC13	2CDS273001R0164	40.04
16	10kA	S203MC16	2CDS273001R0164	40.04
20	10kA	S203MC20	2CDS273001R0204	40.04
25	10kA	S203MC25	2CDS273001R0254	40.04
32	10kA	S203MC32	2CDS273001R0324	40.04
40	10kA	S203MC40	2CDS273001R0404	42.69
50	10kA	S203MC50	2CDS273001R0504	44.83
63	10kA	S203MC63	2CDS273001R0634	45.26

1

# Protecta - Type B Distribution Boards & Pan Assemblies

## Outgoing MCBs

# D



S201M



S202M

### S200 Series Type D - MCBs - single pole - BS EN 60898 6kA

Suitable for cable protection and high inrush applications such as transformers

#### Single Pole

Rating Amps	kA	Part No	Product Hierarchy 2400004	
			Order Code	Price
1	6kA	S201D1	2CDS251001R0011	11.42
2	6kA	S201D2	2CDS251001R0021	11.31
3	6kA	S201D3	2CDS251001R0031	11.31
4	6kA	S201D4	2CDS251001R0041	11.10
6	6kA	S201D6	2CDS251001R0061	10.79
10	6kA	S201D10	2CDS251001R0101	9.90
16	6kA	S201D16	2CDS251001R0161	9.90
20	6kA	S201D20	2CDS251001R0201	9.90
25	6kA	S201D25	2CDS251001R0251	9.90
32	6kA	S201D32	2CDS251001R0321	9.90
40	6kA	S201D40	2CDS251001R0401	10.79
50	6kA	S201D50	2CDS251001R0501	11.31
63	6kA	S201D63	2CDS251001R0631	11.42

#### Double Pole

0.5	6kA	S202D0.5	2CDS252001R0157	34.17
1	6kA	S202D1	2CDS252001R0011	32.68
2	6kA	S202D2	2CDS252001R0021	32.38
3	6kA	S202D3	2CDS252001R0031	32.38
4	6kA	S202D4	2CDS252001R0041	31.74
6	6kA	S202D6	2CDS252001R0061	30.85
10	6kA	S202D10	2CDS252001R0101	28.28
16	6kA	S202D16	2CDS252001R0161	28.28
20	6kA	S202D20	2CDS252001R0201	28.28
25	6kA	S202D25	2CDS252001R0251	28.28
32	6kA	S202D32	2CDS252001R0321	28.28
40	6kA	S202D40	2CDS252001R0401	30.85
50	6kA	S202D50	2CDS252001R0501	32.38
63	6kA	S202D63	2CDS252001R0631	32.68

# Protecta - Type B Distribution Boards & Pan Assemblies

## Outgoing MCBs & RCBOs

# D



S203M

### S200 Series Type D - MCBs - single pole - BS EN 60898 6kA

Suitable for cable protection and high inrush applications such as transformers

#### Triple Pole

			Product Hierarchy 2400004	
Rating Amps	kA	Part No	Order Code	Price
1	6kA	S203D1	2CDS253001R0011	48.46
2	6kA	S203D2	2CDS253001R0021	48.03
3	6kA	S203D3	2CDS253001R0031	48.03
4	6kA	S203D4	2CDS253001R0041	47.12
6	6kA	S203D6	2CDS253001R0061	45.73
10	6kA	S203D10	2CDS253001R0101	42.87
16	6kA	S203D16	2CDS253001R0161	42.87
20	6kA	S203D20	2CDS253001R0201	42.87
25	6kA	S203D25	2CDS253001R0251	42.87
32	6kA	S203D32	2CDS253001R0321	42.87
40	6kA	S203D40	2CDS253001R0401	45.73
50	6kA	S203D50	2CDS253001R0501	48.03
63	6kA	S203D63	2CDS253001R0631	48.46

### RCBO single pole, solid neutral to BS EN 61009

#### Type B

				Product Hierarchy 2500002	
Rating Amps	kA	Sensitivity	Part No	Order Code	Price
6	10	30mA	DS271AC-B6/0.03	2CSR175092R1065	63.27
10	10	30mA	DS271AC-B10/0.03	2CSR175092R1105	63.27
16	10	30mA	DS271AC-B16/0.03	2CSR175092R1165	63.27
20	10	30mA	DS271AC-B20/0.03	2CSR175092R1205	63.27
25	10	30mA	DS271AC-B25/0.03	2CSR175092R1255	63.27
32	10	30mA	DS271AC-B32/0.03	2CSR175092R1325	63.27

#### Type C

6	10	30mA	DS271AC-C6/0.03	2CSR175092R1064	63.27
10	10	30mA	DS271AC-C10/0.03	2CSR175092R1104	63.27
16	10	30mA	DS271AC-C16/0.03	2CSR175092R1164	63.27
20	10	30mA	DS271AC-C20/0.03	2CSR175092R1204	63.27
25	10	30mA	DS271AC-C25/0.03	2CSR175092R1254	63.27
32	10	30mA	DS271AC-C32/0.03	2CSR175092R1324	63.27

**Type B** - Suitable for small inrush or switching surges, heating loads and tungsten lighting

**Type C** - Suitable for moderate switching surges for sort duration. eg. discharge lamps.

Supplied with 800mm flying neutral and functional earth leads.



DS271AC-C10/0.03

# Protecta - Type B Distribution Boards & Pan Assemblies

## Outgoing MCBs

1

### General Accessories/Spares

Description	Product Hierarchy 2400004	
	Order Code	Price £
12 module blank cover	GHL5301904R0001	2.08
1 module blank cover	GHS2701913R0002	0.33
Coupling kit side by side	1SKA145000C0001	13.97
Busbar cover for 5 unused ways	2CDL200001R0011	1.36
Spare blank flange plate	1SKA130002C0001	7.57



# Protecta - Type B Distribution Boards

## Metering Modules, Extension Boxes



### Meter Modules

Distribution Board 3 phase kWh meter module fitted with Type DAB13000 Meter multi function with pulsed output

- Extension box with CT's, wiring loom and MCB to pick up voltage.
- Can be mounted top or bottom of board.
- Modbus, maximum demand and M-bus version available

CT size	Max Cable Diameter (Through CT)	Dimensions mm			Part No	Product Hierarchy 42000001	
		H	W	D		Order Code	Price £
100A	27mm	400	400	125	DB100METMOD	1TVL151800S1017	687.66
125A					DB125METMOD	1TVL151800S1018	687.66
250A					DB250METMOD	1TVL151800S1019	687.66

### Extension Boxes

#### Top Extension Boxes

Description	Part No	Product Hierarchy 42000001	
		Order Code	Price £
Extension Box Plain Cover No DIN Rail	EPBTEB200C	1SKA121142C0001	41.27
Extension Box Plain Cover No DIN Rail	EPBTEB400C	1SKA123142C0001	66.01
14 Module Extension Box Steel Flap (1 row)	EPBTEB200S	1SKA122142C0001	48.14
28 Module Extension Box Steel Flap (2 row)	EPBTEB400S	1SKA124142C0001	70.13

#### Extension Box Dimensions

Part No	Height mm	Width mm	Depth mm
EPBTEB200C	200	400	125
EPBTEB400C	400	400	125
EPBTEB200S	400	400	125
EPBTEB400S	400	400	125

# Housemaster & Protecta

## Modular Devices



F202 AC-63/0.03

### F200 Series RCCBs Double Pole AC - BS/EN 61008

#### Product Hierarchy 2500001

Rated Current	Tripping mA	Part No	Order Code	Price
16	10	F202 AC-16/0.01	2CSF202001R0160	75.56
25	30	F202 AC-25/0.03	2CSF202001R1250	57.90
40	30	F202 AC-40/0.03	2CSF202001R1400	61.13
63	30	F202 AC-63/0.03	2CSF202001R1630	73.58
80	30	F202 AC-80/0.03	2CSF202001R1800	91.04
100	30	F202 AC-100/0.03	2CSF202001R1900	106.78
25	300	F202 AC-25/0.3	2CSF202001R3250	54.19
40	300	F202 AC-40/0.3	2CSF202001R3400	55.28
63	300	F202 AC-63/0.3	2CSF202001R3630	62.11



F204 AC-63/0.03

### F200 Series RCCBs Four Pole AC - BS/EN 61008

25	30	F204 AC-25/0.03	2CSF204001R1250	61.40
40	30	F204 AC-40/0.03	2CSF204001R1400	74.68
63	30	F204 AC-63/0.03	2CSF204001R1630	105.91
80	30	F204 AC-80/0.03	2CSF204001R1800	131.74
100	30	F204 AC-100/0.03	2CSF204001R1900	148.24
100	100	F204 AC-100/0.1	2CSF204001R2900	148.24
25	300	F204 AC-25/0.3	2CSF204001R3250	60.17
40	300	F204 AC-40/0.3	2CSF204001R3400	62.44
63	300	F204 AC-63/0.3	2CSF204001R3630	69.59



ESB24.40

### Installation Contactors - BS EN 61095

#### Product Hierarchy 2700001

Rated Current	230v kW		400v kW		Contacts		Part no	Order Code	Price
	AC1	AC3	AC1	AC3	n/o	n/c			
20	4	1.3	-	-	-	2	ESB20.02	GHE3211202R0006	22.59
					1	1	ESB20.11	GHE3211302R0006	21.57
					4	-	ESB20.40	GHE3211102R0006	21.57
24	9	2.2	16	4	4	-	ESB24.40	GHE3291102R0006	26.64
					-	4	ESB24.04	GHE3291202R0006	31.16
					2	2	ESB24.22	GHE3291302R0006	28.84
40	16	5.5	26	11	4	-	ESB40.40	GHE3491102R0006	47.08
63	24	8.5	40	16	4	-	ESB63.40	GHE3691102R0006	72.20

Fitted with 230v 50Hz coils

Spacer							GHE3201902R0001	0.96
Aux Contacts (not for ESB20)	2	-					EH04.20	14.10

# Housemaster & Protecta

## Modular Devices



AT3



E203/63R



OVR1N15275

### Analogue Timers

Description	Part No	Product Hierarchy 2700001	
		Order Code	Price
Daily programme with standby battery 200 hr	AT3-R	2CSM204235R0601	77.25
Weekly programme with standby battery 200 hr	AT3-7R	2CSM204245R0601	75.60

### Twilight Switches

The twilight switch allows ON/OFF switching of lights according to pre-established light levels

Twilight switch + light sensor	TW1	2CSM204135R1341	45.61
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### Digital Timers

1 Channel Weekly Time Switch	DT1	2CSM204255R0611	100.60
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### Isolators

E202/63R 2P 63A	E202/63R	2CDE282001R0063	20.96
E202/100R 2P 100A	E202/100R	2CDE282001R0100	18.69
E202/125R 2P 125A	E202/125R	2CDE282001R0125	35.96
E203/63R 3P 63A	E203/63R	2CDE283001R0063	31.36
E203/100R 3P 100A	E203/100R	2CDE283001R0100	37.03
E203/125R 3P 125A	E203/125R	2CDE283001R0125	53.46
E204/63R 4P 63A	E204/63R	2CDE284001R0063	40.83
E204/125R 4P 125A	E204/125R	2CDE284001R0125	67.39

### Surge Arrestors

Type 1 - 3 pole + N	OVRT13N25525TS	2CTB815101R0700	730.22
Type 2 - 3 pole + N	OVRT23N40275SPTS	2CTB803953R0200	185.70

# Housemaster & Protecta

## Digital Energy Meters



DCB13000

### Digital Meters

Description	Part No	Product Hierarchy 2700001	
		Order Code	Price
ODIN Single Phase, Direct Connected	OD1065	2CMA131040R1000	81.00
ODIN Single Phase, Pulse Output, Direct Connected	OD1365	2CMA131041R1000	90.00
DELTA Single Phase - 2 Tariff with Pulse Output	FBB11205	2CMA180894R1000	111.00
DELTA Single Phase - 2 Tariff	FBU11205	2CMA180893R1000	105.00
ODIN 3 Phase + N - 1 Pulse Output, Direct Connected	OD4165	2CMA131024R1000	162.00
ODIN 3 Phase + N - 1 Pulse Output, CT Connected	OD4110	2CMA131025R1000	162.00
DELTA Plus 3 phase + N - 1 Tariff with Pulse Output	DAB13000	2CMA180806R1000	204.00
DELTA Plus 3 phase + N - 1 Tariff with Pulse / Log Function	DAB13007	2CMA139305R100	243.00
DELTA Max 3 phase + N - 2 Tariff with Internal Clock and THD	DEB13005	2CMA139495R1000	267.00
DELTA Max 3 phase + N - 2 Tariff with Time Dependant Functions and THD	DEB13007	2CMA139497R1000	249.00

### Communication Adaptors

Description	Part No	Product Hierarchy 2700001	
		Order Code	Price
LON PLC A-Band Adaptor	CAL 06000	2CMA137100R1000	161.09
Ethernet Adaptor	CEM 05100	2CMA137121R1000	129.00
M-bus (Meter Bus) Adaptor	CTM 04000	2CMA137090R1000	114.00
LON PLC C-Band Adaptor	CCL 06000	2CMA137103R1000	161.09
RS232 Adaptor	CRM04000	2CMA137091R1000	114.00

# Mirage MCB Distribution Boards

S800 - 400A



GDMR40-308FS8

## Technical Details

Standard	: EN 60439-1/BS EN 60439-1 & 3
Maximum Load	: 400 amp
Maximum Voltage	: 415V ac, 50/60 Hz
Range	: 4, 6,8,12 and 16 TP&N ways
Incoming Device	: Max 400 Amp, TP MCCBs size T5
Outgoing Devices	: Max 125 Amp, TP or SP MCB S800
Protection Degree	: IP42
Colour	: RAL 7035
Rated Short Time withstand current	: 36kA at 415V 0.25pf
Enclosure	: Cold rolled steel 1.5mm

## Mirage S800 TPN - 400A, MCB Panel Boards fixed capacity

Incoming - T5, 400A MCCB (see below)

Outgoing - S800 MCBs max 125A (see page 32)

No of Ways	Rating [A]	Dimensions mm			Part No	Product Hierarchy 4200001	
		H	W	D		Order Code	Price £
4	400A	650	700	160	GDMR40-304FS8	1SKS404242C3320	579.28
6		800	700	160	GDMR40-306FS8	1SKS406242C3320	689.75
8		800	700	160	GDMR40-308FS8	1SKS408242C3320	741.45
12		1300	700	160	GDMR40-312FS8	1SKS412242C3320	940.08
16		1300	700	160	GDMR40-316FS8	1SKS416242C3320	1038.09

## Incomer Options

Rating [A]	Description	Product Hierarchy 3000003	
		Order Code	Price
400A	400 3P Switch Disconnecter T5D400	1SDA054599R1	440.51
	400 3P MCCB T5N400 36kA	1SDA054317R1	514.44
	T5 Terminal Shroud required for incomer	1SDA054960R1	21.57

## Extension Boxes

Description	Dimensions mm			Part No	Product Hierarchy 4200001	
	H	W	D		Order Code	Price
Top	250	700	125	GDMR40-ATB2B	1SKA660442C4101	70.93
	400	700	125	GDMR40-ATB4B	1SKA660442C4102	99.03
Bottom	250	700	125	GDMR40-ABP2C	1SKA661442C4101	70.93
	400	700	125	GDMR40-ABP4C	1SKA661442C4102	99.03

# Mirage Distribution Boards

## Type C Outgoing MCBs - 25kA

**C**



S801

### S800C Series Type C - MCBs - BS EN 60898, BS EN 60947-2

Suitable for protection of resistive and inductive loads with low inrush current against overload and short circuits when a high breaking capacity is required, also where down stream selectivity is required.

#### Single Pole

Rating Amps	Part No	Product Hierarchy 2400003	
		Order Code	Price
10	S801CC10	2CCS881001R0104	26.11
16	S801CC16	2CCS881001R0164	26.11
20	S801CC20	2CCS881001R0204	26.11
25	S801CC25	2CCS881001R0254	26.11
32	S801CC32	2CCS881001R0324	26.11
40	S801CC40	2CCS881001R0404	29.14
50	S801CC50	2CCS881001R0504	29.14
63	S801CC63	2CCS881001R0634	29.14
80	S801CC80	2CCS881001R0804	30.90
100	S801CC100	2CCS881001R0824	30.90
125	S801CC125	2CCS881001R0844	37.20



S803

#### Triple Pole

Rating Amps	Part No	Product Hierarchy 2400003	
		Order Code	Price
10	S803CC10	2CCS883001R0104	76.26
16	S803CC16	2CCS883001R0164	76.26
20	S803CC20	2CCS883001R0204	76.26
25	S803CC25	2CCS883001R0254	76.26
32	S803CC32	2CCS883001R0324	76.26
40	S803CC40	2CCS883001R0404	85.28
50	S803CC50	2CCS883001R0504	85.28
63	S803CC63	2CCS883001R0634	85.28
80	S803CC80	2CCS883001R0804	99.28
100	S803CC100	2CCS883001R0824	99.28
125	S803CC125	2CCS883001R0844	103.05



# Mirage Distribution Boards

## Type D Outgoing MCBs - 25kA

# D



S801



S803

### S800C Series Type D - MCBs - BS EN 60898, BS EN 60947-2

Suitable for the protection of circuits with high inrush currents such as - motors, transformers and discharge lighting. Also, when a high breaking capacity and down stream selectivity is required.

#### Single Pole

Rating Amps	Part No	Product Hierarchy 2400003	
		Order Code	Price
10	S801CD10	2CCS881001R0101	27.96
16	S801CD16	2CCS881001R0161	27.96
20	S801CD20	2CCS881001R0201	27.96
25	S801CD25	2CCS881001R0251	27.96
32	S801CD32	2CCS881001R0321	27.96
40	S801CD40	2CCS881001R0401	31.27
50	S801CD50	2CCS881001R0501	31.27
63	S801CD63	2CCS881001R0631	31.27
80	S801CD80	2CCS881001R0801	37.88
100	S801CD100	2CCS881001R0821	37.88
125	S801CD125	2CCS881001R0841	40.66

#### Triple Pole

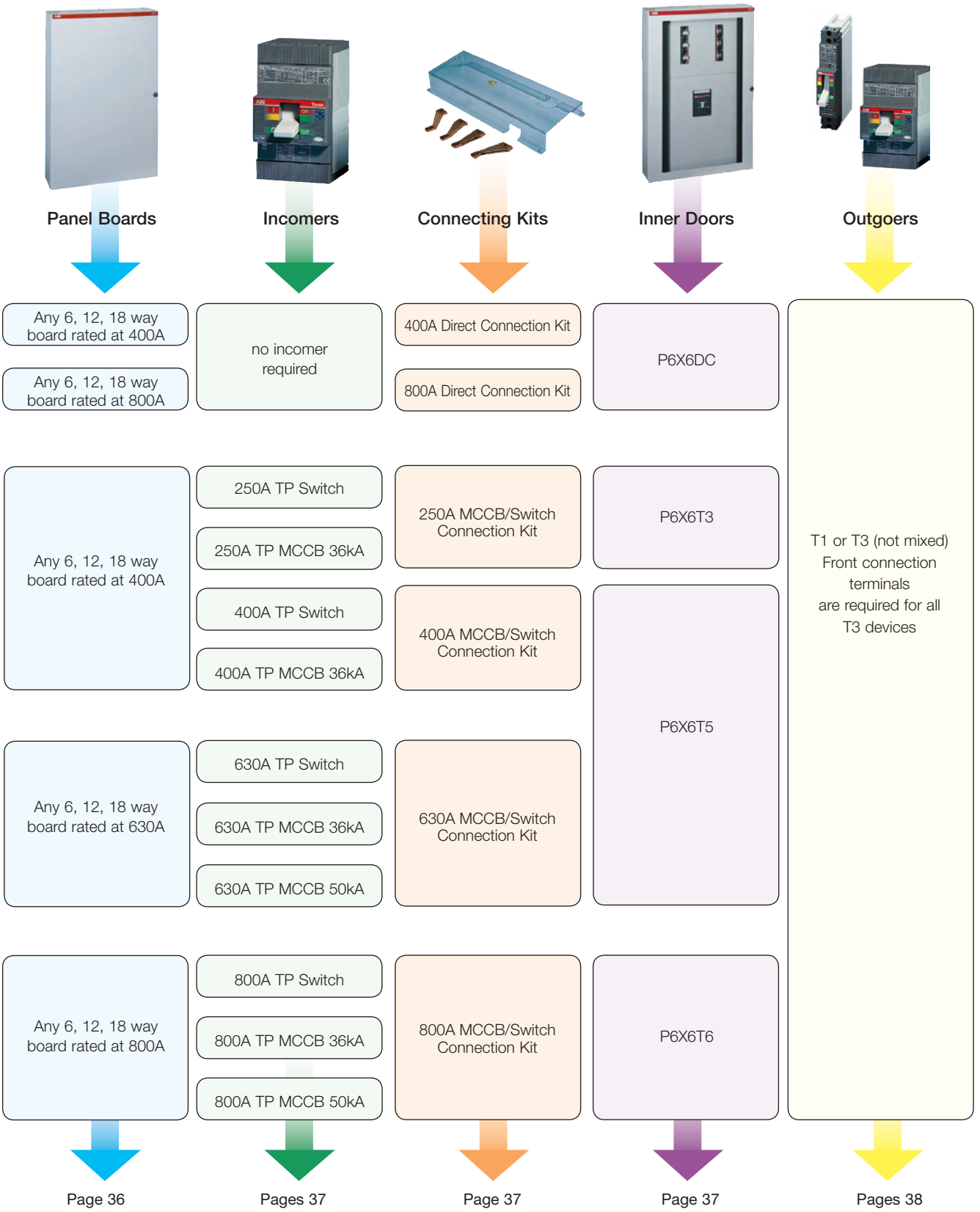
Rating Amps	Part No	Product Hierarchy 2400003	
		Order Code	Price
10	S803CD10	2CCS883001R0101	81.27
16	S803CD16	2CCS883001R0161	81.27
20	S803CD20	2CCS883001R0201	81.27
25	S803CD25	2CCS883001R0251	81.27
32	S803CD32	2CCS883001R0321	81.27
40	S803CD40	2CCS883001R0401	90.75
50	S803CD50	2CCS883001R0501	90.75
63	S803CD63	2CCS883001R0631	90.75
80	S803CD80	2CCS883001R0801	109.94
100	S803CD100	2CCS883001R0821	109.94
125	S803CD125	2CCS883001R0841	117.57

# Panel Boards

1



# Panel Boards



For the Panelboard to be complete you need to order one item from each of the 5 colour coded sections.

# Panel Boards

## 3 Pole and Custom Boards

1



640T1PB3

### Technical Details

- Colour Light Grey RAL 7035
- ASTA Certified Busbars
- Supplied with a plain door as standard
- Supplied without incomer, see options below
- 4 Pole Versions on request
- Rated current/lcw: up to 400A/35kA flat busbar  
up to 800A/50kA profiled busbar

### 3 Pole Panel Board

Ways	MCCB Type	Copper Rating	Dimensions mm			Product Hierarchy 4100001	
			H	W	D	Order Code	Price £
6	T1	400A	1050	690	204	640T1PB3	674.56
	T3	400A	1250	690	204	640T3PB3	780.65
	T3	800A	1250	690	204	680T3PB3	812.08
12	T1	400A	1450	690	240	124T1PB3	880.20
	T3	400A	1650	690	240	124T3PB3	1037.36
	T1	800A	1450	690	240	128T1PB3	1113.34
	T3	800A	1650	690	240	128T3PB3	1195.30
18	T1	400A	1850	690	240	184T1PB3	1131.02
	T1	800A	1850	690	240	188T1PB3	1299.74
	T3	800A	2050	690	240	188T3PB3	1447.35

T1 and T3 breakers **cannot** be mixed in standard Panelboard

### 3 Pole Custom Panel Board (for use with 400, 630 and 800A incomers only)

Ways	MCCB Type	Copper Rating	Dimensions mm			Product Hierarchy 4100001	
			H	W	D	Order Code	Price £
6	T1/T2/T3	400A	1250	690	204	CU640PB3	732.25
12			1650	690	240	CU124PB3	952.93
18			2050	690	240	CU184PB3	1047.93
6	T1/T2/T3	800A	1250	690	204	CU680PB3	770.18
12			1650	690	240	CU128PB3	1074.06
18			2050	690	240	CU188PB3	1244.33

It is necessary to purchase plug-in bases for the MCCBs fitted in a Custom Panel Board see page 39

Please note: The above boards are built to order - Lead times available on request

# Panel Board

## Incoming Devices & Accessories

### Incomer Options



Connection Kits



MCCB / Switch Disconnecter

			Product Hierarchy 4100001	
Rating	Device	kA Rating	Order Code	Price £
400/800A	Direct Connection Kit 400A	-	400DC3/4P	53.93
	Direct Connection Kit 800A	-	800DC3P	85.55
	Inner Door to suit the above kits	-	P6X6DC	39.06
250A	3 Pole Connection Kit 250A T3 MCCB/Switch	-	250T33P	65.10
	Inner Door to suit the above kit	-	P6X6T3	53.93
	250A 3P Switch Disconnecter T3D250	-	1SDA051327R1	198.81
	250A 3P MCCB T3N250	36kA	1SDA051247R1	361.99
400A	3 Pole Connection Kit 400A T5 MCCB/Switch	-	400T53P	65.10
	Inner Door to suit the above kit	-	P6X6T5	53.93
	400A 3P Switch Disconnecter T5D400	-	1SDA054599R1	440.51
	400A 3P MCCB T5N400	36kA	1SDA054317R1	514.44
630A	3 Pole Connection Kit 630A T5 MCCB/Switch	-	630T53P	72.53
	Inner Door to suit the above kit	-	P6X6T5	53.93
	630A 3P Switch Disconnecter T5D630	-	1SDA054601R1	628.59
	630A 3P MCCB T5N630	36kA	1SDA054396R1	819.37
	630A 3P MCCB T5S630	50kA	1SDA054404R1	901.31
800A	3 Pole Connection Kit 800A T6 MCCB/Switch	-	800T63P	69.74
	Inner Door to suit the above kit	-	P6X6T6	55.78
	800A 3P Switch Disconnecter T6D800	-	1SDA060345R1	929.19
	800A 3P MCCB T6N800	36kA	1SDA060214R1	952.51
	800A 3P MCCB T6S800	50kA	1SDA060216R1	998.31



# Panel Boards

## Outgoing MCCBs

1



1SDA052616R1



1SDA050870R1



1SDA050894R1



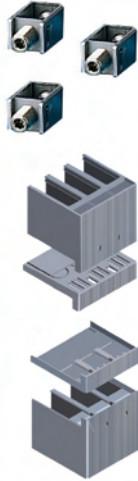
1SDA050894R1

Model	Current [A]	Product Hierarchy 3000003	
		Order Code	Price
16kA	16A	1SDA052616R1	64.45
	20A	1SDA052617R1	64.45
T1B Single Pole 25kA	32A	1SDA052619R1	64.45
	40A	1SDA052620R1	64.45
	63A	1SDA052622R1	64.45
	80A	1SDA052623R1	64.45
	100A	1SDA052624R1	64.45
	125A	1SDA052625R1	71.12
	160A	1SDA052626R1	77.98
T1B Triple Pole 16kA	16A	1SDA050870R1	92.35
	20A	1SDA050871R1	92.35
	32A	1SDA050873R1	92.35
	40A	1SDA050874R1	92.35
	50A	1SDA050875R1	92.35
	63A	1SDA050876R1	92.35
	80A	1SDA050877R1	94.87
	100A	1SDA050878R1	94.87
	125A	1SDA050879R1	97.13
T1C Triple Pole 25kA	160A	1SDA050880R1	129.62
	25A	1SDA050894R1	125.35
	32A	1SDA050895R1	125.35
	40A	1SDA050896R1	125.35
	50A	1SDA050897R1	125.35
	63A	1SDA050898R1	125.35
	80A	1SDA050899R1	129.42
	100A	1SDA050900R1	129.42
T1N Triple Pole 36kA	125A	1SDA050901R1	137.53
	160A	1SDA050902R1	168.83
	32A	1SDA050917R1	137.74
	40A	1SDA050918R1	137.74
	50A	1SDA050919R1	137.74
	63A	1SDA050920R1	137.74
	80A	1SDA050921R1	140.54
T3 Triple Pole 35kA	100A	1SDA050922R1	140.54
	125A	1SDA050923R1	151.12
	160A	1SDA050924R1	195.28
	63A	1SDA051241R1	186.57
	80A	1SDA051242R1	186.57
	100A	1SDA051243R1	186.57
	125A	1SDA051244R1	205.76
T3 Triple Pole 50kA	160A	1SDA051245R1	262.00
	200A	1SDA051246R1	262.00
	250A	1SDA051247R1	361.99
	63A	1SDA051263R1	205.23
	80A	1SDA051264R1	205.23
	100A	1SDA051265R1	205.23
	125A	1SDA051266R1	226.37
	160A	1SDA051267R1	288.20
	200A	1SDA051268R1	288.20
	250A	1SDA051269R1	398.19



# Panel Boards

## Accessories



PLT33P



PB250METMOD

### MCCB Accessories

Front Connection Terminal for Copper Cables - FC CU

T3 - 3 pieces

#### Product Hierarchy 4100001 - 3000003 - 3400004

Order Code	Price
1SDA051482R1	8.53

High Terminal Cover HTC

T1 3P - 2 Pieces

T3 3P - 2 Pieces

T5 - 2 Pieces

T6 - 2 Pieces

T1 1P - 1 Piece

1SDA051415R1	10.66
1SDA051419R1	15.25
1SDA054960R1	21.57
1SDA014040R1	19.44
ED0001	8.44

### General Accessories

Description

MCCB blanking module for inner door (210mm)

T1 Busbar Shroud 10 pcs

T3 Busbar Shroud 10 pcs

#### Product Hierarchy 4100001

Order Code	Price £
GHL5301904R0001	2.08
MODT1	5.59
MODT3	5.59

### Plug-in Bases

Width mm

T1 Single Pole L1 & L3 Plug In

T1 single pole L2 plug in base

T1 three pole plug in base

T3 3 Pole Plug In Base

Additional kit for neutral & earth bars

Extension kit for neutral & earth bars

Busbar Shroud 630mm Long 3Pcs

25.4	PLT11L1/L3P	32.41
25.4	PLT11L2P	31.24
76.2	PLT13P	69.51
105	PLT33P	77.73
	AK1NE	67.13
	EX1NE	34.40
	SH630	14.45

### Meter Modules

#### Panel Board 3 phase kWh meter module

- Extension box with multi function meter (Deltaplus1300), CT's, wiring loom and MCB to pick up voltage.
- Extension box with CT's, wiring loom and MCB to pick up voltage.
- Modbus, maximum demand and M-Bus versions available
- Can be mounted top or bottom of board.

#### Product Hierarchy 4200001

Panel Board Depth	CT Size [A]	CT Hole Diameter	Order Code	Price
240mm	250A	37mm	1TVL151800S1013	745.75
	400A		1TVL151800S1014	745.75
	600A		1TVL151800S1015	745.75
	800A		1TVL151800S1016	745.75
204mm	250A	37mm	1TVL151800S1174	745.75
	400A		1TVL151800S1175	745.75
	600A		1TVL151800S1176	745.75
	800A		1TVL151800S1177	745.75

When fitting side extension modules together with a meter module please order the required number or RC2000 extension modules

Please note: The above boards are built to order - Lead times available on request

# Panel Boards

## Accessories



640T1PB3

### Plinths

	Product Hierarchy 4100001	
	Order Code	Price
Four corner feet 100mm high for main structure	ZL1000	27.53
Finish profile for above plinth	ZL1001	23.43
Two Feet 100mm high for side extension box	ZL3000	23.81
Finishing profile for side extension box	ZL2001	18.96

Plinths cannot be used when meter modules are fitted/extension boxes

### Top/Bottom Extension Modules

385H x 690W x 240D mm top/bottom structure extension box	RC1000	115.41
385H x 390W x 240D mm top/bottom cable way extension box	RC2000	101.14

### Side Extension Modules

Uprights 1050mm	MI1000	72.90
Cable Container 1050mm	VC1000	151.77
Front Door 1050mm	PC1002	98.20
Uprights 1250mm	MI1200	77.37
Cable Container 1250mm	VC1200	156.99
Front Door 1250mm	PC1202	98.20
Uprights 1450mm	MI1400	85.19
Cable Container 1450mm	VC1400	152.52
Front Door 1450mm	PC1402	100.81
Uprights 1650mm	MI1600	94.49
Cable Container 1650mm	VC1600	165.90
Front Door 1650mm	PC1602	106.37
Uprights 1850mm	MI1800	101.94
Cable Container 1850mm	VC1800	176.32
Front Door 1850mm	PC1802	106.37
Uprights 2050mm	MI2000	111.60
Cable Container 2050mm	VC2000	182.28
Front Door 2050mm	PC2002	106.02

When fitting side extension modules together with a top or bottom extension box please order the required number of RC2000 extension modules



### Contents

Loadbreak Switches . . . . .	42 - 44
Switch Fuses . . . . .	45
BS Fuses . . . . .	46
Spreader Boxes . . . . .	47
Cam Switches . . . . .	48

# Switching - Loadbreak Switches

## IP65 Polycarbonate Enclosure

- IP65 three and four-pole switch disconnectors suitable for load break switching or isolation.
- Polycarbonate enclosure. IEC 60947-3

### Polycarbonate Enclosure 9kW ... 11kW 3 pole

Rating@415v			Dimensions mm			Product Hierarchy 4000002	
1th A	AC22	kW	H	W	D	Order Code	Price
32	25	9	125	100	107	S37K5N-A	21.68
40	40	11				S315KN-A	28.48



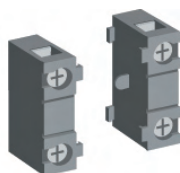
S37K5N

### Polycarbonate Enclosure 9kW ... 37kW 4 pole

Rating@415v			Dimensions mm			Product Hierarchy 4000002	
1th A	AC22	kW	H	W	D	Order Code	Price
32	25	9	125	100	107	S47K5N-A	25.05
40	40	11				S415KN-A	31.85
63	63	22	170	140	108	S418KN-A	50.44
80	80	37				S426KN-A	71.08

### Auxiliary Contacts

NO	NC	Product Hierarchy 4000002	
		Order Code	Price
1	-	OA1G10	5.39
-	1	OA1G01	5.39
1	1	OA2G11	7.36



# Switching - Loadbreak Switches

## IP65 Plastic Enclosure



### Load Break Switches 3 - 4 - 6 pole 16...125 amps

- IP65 rated
- Grey plastic enclosure
- Standard handle - Red/Yellow (padlockable in the off position)
- Cable entries top and bottom
- All OTP16 (excluding 3p) /25/32 all have 25/20mm reducers

Rating@415v				No. Poles	Dimensions mm			Product Hierarchy 4000002	
1th A	AC22	AC23	kW		H	W	D	Order Code	Price
25	16	16	7.5	3+ solid neutral	150	130	60	OTP16BA3M	19.34
				4	150	130	60	OTP16BA4M	26.03
				6	150	130	60	OTP16BA6M	57.41
32	25	20	9	3+ solid neutral	150	130	60	OTP25BA3M	24.94
				4	150	130	60	OTP25BA4M	28.63
40	40	23	11	3+ neutral	150	130	60	OTP32BA3M	27.05
				4	150	130	60	OTP32BA4M	30.84
				6	150	130	60	OTP32BA6M	65.26
63	63	45	22	3+ solid neutral	200	145	90	OTP45BA3M	37.55
				4	200	145	90	OTP45BA4M	43.42
				6	200	145	90	OTP45BA6M	82.65
80	80	75	37	3+ solid neutral	200	145	90	OTP63BA3M	47.63
				4	200	145	90	OTP63BA4M	56.02
				6	200	145	90	OTP63BA6M	98.06
125	125	90	45	3+ solid neutral	400	200	140	OTP125BA3U	154.09
				4	400	200	140	OTP125BA4U	177.88
				6	400	200	140	OTP125BA6U	280.14

### Safety Switches 3 pole 16...40 amps

Rating@415v				No. Poles	Dimensions mm			Product Hierarchy 4000002	
1th A	AC22	AC23	kW		H	W	D	Order Code	Price
25	16	16	7.5	3	150	130	60	OTP16B3M	19.32
32	25	20	9	3	150	130	60	OTP25B3U	30.21
40	40	23	11	3	150	130	60	OTP32B3U	33.15



# Switching - Loadbreak Switches

## IP65 Steel Enclosure

### Load Break Switches 3 - 4 pole 20 ... 400A

- IP65 rated (not suitable for external installation)
- Powder coated textured finish (RAL 7035)
- All 3 pole switches include detachable neutral link (OT160 solid link)
- Hinged lid complete with 2 fastening screws (removable)
- Padlockable pistol grip handle as standard
- Removable gland plates fitted top and bottom (see below for knockout configurations)
- Spreader Boxes available see page 47



OT100TPN



OT315TPN

Rating@415v			Spreader Box	No. Poles	Product Hierarchy 4000003	
1th A	AC22	AC23			Order Code	Price
32	25	20	SB1G	3 + solid neutral	OT20TPN	79.68
				4	OT20FP	86.98
40	40	23	SB1G	3+ solid neutral	OT32TPN	97.06
				4	OT32FP	103.90
80	80	75	SB1G	3+ solid neutral	OT63TPN	158.03
				4	OT63FP	167.31
115	100	80	SB2G	3+ solid neutral	OT100TPN	248.15
				4	OT100FP	259.85
125	125	90	SB2G	3+ solid neutral	OT125TPN	266.08
				4	OT125FP	273.97
160	160	135	SB2G	3 + solid neutral	OT160TPN	407.82
				4	OT160FP	424.61
200	200	200	SB2G	3+ solid neutral	OT200TPN	446.26
				4	OT200FP	472.52
315	315	315	SB2G	3+ solid neutral	OT315TPN	511.84
500	500	500	SB2G	3+ solid neutral	OT400TPN	729.32

#### Dimensions

Part No	Height mm	Width mm	Depth mm
OT20 - OT32	160	160	120
OT63	300	240	120
OT100 - OT125	400	300	160
OT160 - OT200 - OT315 - OT400	500	360	160

# Switching - Switch Fuses

## IP65 Steel Enclosure

### 3 - 4 pole 20 ... 630A

- IP65 rated (not suitable for external installation)
- Powder coated textured finish (RAL 7035)
- All switches supplied with fuses
- All 3 pole switches include detachable neutral link (OT160 solid link)
- Hinged lid complete with 2 fastening screws (removable)
- Padlockable pistol grip handle as standard
- Removable gland plates fitted top and bottom (see below for knockout configurations)
- Switches internally are rated IP20 on incoming terminals up to 63A
- Switches 100A and above have a shroud fitted to the incoming terminals to increase protection when the door is open
- Spreader Boxes available see page 47
- 2 gland plates included one blank (bottom), one configured as below (top)



OS20FP



OS63FP

							Product Hierarchy 4000004	
Rating@415v							Order Code	Price
1thA	AC21	AC22	AC23	Spreader Box	No. Poles	Fuse Type		
20	7.5	11	15	SB1G	3+detach neutral	A1	OS20TPN	110.68
32	15	18	25	SB1G	3+detach neutral	A2	OS32TPN	145.07
					4		OS32FP	155.34
63	30	37	55	SB2G	3+detach neutral	A2/A3	OS63TPN	245.26
					4		OS63FP	259.87
100	55	55	90	SB2G	3+detach neutral	A2/A3	OS100TPN	415.55
					4		OS100FP	476.78
125	55	75	110	SB2G	3+detach neutral	A2/A3	OS125TPN	449.42
					4		OS125FP	497.98
160	75	90	132	SB2G	3+solid neutral	A3/A4	OS160TPN	482.11
200	110	132	200	SB3G	3+detach neutral	B1/B2	OS200TPN	608.07
					4		OS200FP	712.94
315	160	220	220	SB3G	3+detach neutral	B1/B4	OS315TPN	723.95
					4		OS315FP	865.78
400	220	280	400	SB3G	3+detach neutral	B1/B4	OS400TPN	1152.38
					4		OS400FP	1276.07
630	355	450	560	SB4G	3+detach neutral	C1/C2	OS630TPN	1693.20
					4		OS630FP	1914.32

### Dimensions

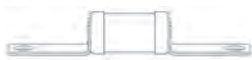
Part No	Height mm	Width mm	Depth mm
OS20 - OS32	300	240	120
OS63 - OS100 - OS125	400	300	160
OS160 - OS200 - OS315 - OS400	500	360	160
OS630	800	600	335

## Switching - BS Fuse Range

2



ANIT



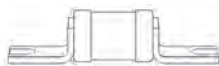
ATIA  
ATIS



AOS80-100



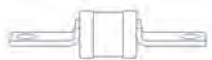
AOS125-200



ATCP  
ATFP



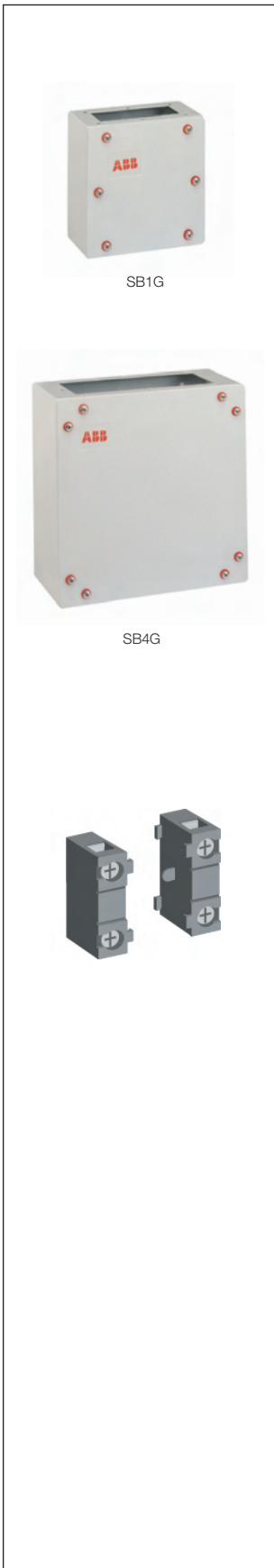
ATC



ATF  
ATKF  
ATMF  
ATKM

Fuse Size	Fixing Centres	Product Hierarchy 2000002	
		Order Code	Price £
3 Pole Fuse Base IP20 160A		OFAX00S3	66.55
A1 Fuselink 6 amp BS88		ANIT6	1.37
A2 Fuselink 10A	73mm	ATIA10	2.20
A2 Fuselink 16A	73mm	ATIA16	2.20
A2 Fuselink 20A	73mm	ATIA20	2.44
A2 Fuselink 25A	73mm	ATIA25	2.61
A2 Fuselink 32A	73mm	ATIA32	2.61
A2 Fuselink 4A	73mm	ATIA4	2.20
A2 Fuselink 6A	73mm	ATIA6	2.20
A3 Fuselink 100A	73mm	AOS100	5.15
A3 Fuselink 125A	73mm	AOS125	10.72
A3 Fuselink 160A	73mm	AOS160	11.80
A3 Fuselink 200A	73mm	AOS200	12.35
A3 Fuselink 40A	73mm	ATIS40	4.14
A3 Fuselink 50A	73mm	ATIS50	4.14
A3 Fuselink 63A	73mm	ATIS63	4.41
A3 Fuselink 80A	73mm	AOS80	4.67
A3-M100 Fuselink 63A	73mm	ATIS63M100	6.56
A4 Fuselink 100A	94mm	ATCP100	6.30
A4 Fuselink 125A	94mm	ATFP125	10.82
A4 Fuselink 160A	94mm	ATFP160	11.80
B1 Fuselink 100A	111mm	ATC100	6.30
B2 Fuselink 125A	111mm	ATF125	10.75
B2 Fuselink 160A	111mm	ATF160	11.80
B2 Fuselink 200A	111mm	ATF200	12.35
B3 Fuselink 250A	111mm	ATKF250	15.58
B3 Fuselink 315A	111mm	ATKF315	17.37
B4 Fuselink 355A	111mm	ATMF355	21.79
B4 Fuselink 400A	111mm	ATMF400	23.13
B4 Fuselink 630A	111mm	ATMF630	39.66
C2 Fuselink 500A	133/184mm	ATTM500	36.06
C2 Fuselink 630A	133/184mm	ATTM630	39.66
C3 Fuselink 800A	133/184mm	ATLM800	89.79
F1 Fuselink 10A	60mm Overall	ANS10	1.38
F1 Fuselink 16A	60mm Overall	ANS16	1.38
F1 Fuselink 20A	60mm Overall	ANS20	1.67
F1 Fuselink 2A	60mm Overall	ANS2	1.38
F1 Fuselink 4A	60mm Overall	ANS4	1.38
F2 Fuselink 63A	60mm Overall	AES63	3.82

# Switching - Accessories



## Spreader Boxes

- IP65 rated
- Spreader boxes can be provided to facilitate the glanding off of larger or multi cable applications.
- When terminating a cable remove the gland plate from the switch enclosure and mount onto the spreader box.
- The spreader box is then mounted on to the switch enclosure where the gland plate has been removed by the set screws provided.

Suitable for Loadbreak and Switchfuse	Product Hierarchy 4000003	
	Order Code	Price £
OT20, OT32, OT63, OS20, OS32	SB1G	62.87
OT100, OT125, OT160, OT200, OT315, OT400, OS63, OS100, OS125, OS160	SB2G	78.59
OT630, OT800, OS200, OS315, OS400	SB3G	110.02
OS630	SB4G	128.38

## Auxiliary Contacts

			Product Hierarchy 4000002	
			Order Code	Price
NO	NC			
1	-		OA1G10	5.39
-	1		OA1G01	5.39
1	1		OA2G11	7.36

## Switching - Cam Switches

2



ONA\_EPB



ONA3EKB



ONA\_EZB



OTU16B3M6

### Enclosed Cam switches

- For use where multi-pole switching is required
- Neutral and earth terminal, 6mm<sup>2</sup> included

Description	No Poles	Product Hierarchy 4000003	
		Order Code	Price
25A Hand/Off/Auto	1	ON1XBS5615	10.43
25A Changeover Door Mounted	1	ONU1PB	10.43
25A Changeover Door Mounted	2	ONU2PB	14.30
25A Changeover Door Mounted	3	ONU3PB	18.13
25A Changeover Door Mounted	4	ONU4PB	21.97
10A Multistep Door Mounted	2	OMSO22PB	13.40
25A Multistep Door Mounted	1	ONSO31PB	12.78
25A Multistep Door Mounted	2	ONSO32PB	18.13
25A On-Off Switch 3P Door Mtd	3	ONA3PB	12.78
25A On-Off Switch 4P Door Mtd	4	ONA4PB	14.30
25A Cam Switch	2	ONWS2PB	14.44
Camline with Key Lock	3	ON13RQBS14261	95.80
40A Camline Changeover Switch	4	1SCA022761R1290	32.83





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# Direct-on-Line Starters

## IP66 Plastic Enclosure

### Three Phase 400v up to 7.5kW - 400 or 230v coil

- Smoothly styled modern IP66 enclosed DOL starter IEC947-4-1
- Generous cabling space for easy installation
- Combined contactor/overload assembly can be unclipped from DIN rail to ease installation
- Support for 400v 3ph or 230v single phase
- Overload supplied separately

### IP66 Plastic Enclosure + Contactor 400v coil - Select overload from below

Three Phase 400V [AC3]		Dimensions mm			Part No	Product Hierarchy 3600001	
KW	hp	H	W	D		Order Code	Price £
5.5	7.5	230	106	127	124EXE0D-OL	1TVL300412E5099	49.02
7.5	10.0				184EXE0D-OL	1TVL300416E5099	53.56

### IP66 Plastic Enclosure + Contactor 230v coil - Select overload from below

Three Phase 400V [AC3]		Single Phase 230V [AC3]		Dimensions mm			Part No	Product Hierarchy 3600001	
KW	hp	KW	hp	H	W	D		Order Code	Price £
5.5	7.5	1.5	2.0	230	106	127	122EXE0D-OL	1TVL300212E5099	49.01
7.5	10.0	2.2	3.0				182EXE0D-OL	1TVL300216E5099	53.56

### Overload Selection

Three Phase 400V [AC3]		Single Phase		Overload Rating Amps		Part No	Product Hierarchy 1700006	
KW	hp	KW	hp	From	To		Order Code	Price £
0.25	0.33	0.05	0.08	0.63	1.0	TA25DU1.0	1SAZ211201R1021	24.48
0.37	0.55	0.07	0.09	1.0	1.4	TA25DU1.4	1SAZ211201R1023	24.48
0.55	0.75	0.1	0.12	1.3	1.8	TA25DU1.8	1SAZ211201R1025	24.48
0.75	1.0	0.18	0.25	1.7	2.4	TA25DU2.4	1SAZ211201R1028	24.48
1.1	1.5	0.25	0.33	2.2	3.1	TA25DU3.1	1SAZ211201R1031	24.48
1.5	2.0	0.37	0.50	2.8	4.0	TA25DU4.0	1SAZ211201R1033	24.48
2.2	3.0	0.55	0.75	4.5	6.5	TA25DU6.5	1SAZ211201R1038	24.48
3.7	5.0	0.75	1.15	6.0	8.5	TA25DU8.5	1SAZ211201R1040	24.48
4.0	5.5	1.1	1.5	7.5	11.0	TA25DU11	1SAZ211201R1043	24.48
5.5	7.5	1.5	2.0	10.0	14.0	TA25DU14	1SAZ211201R1045	25.76
7.5	10.0	2.2	3.0	13.0	19.0	TA25DU19	1SAZ211201R1047	29.50

### Accessories

Description	Part No	Product Hierarchy 3600001	
		Order Code	Price £
E/Stop pushbutton kit	ESPBKIT	ESPBKIT	23.26



34 EXE0-D



34 EXE0-D



T25DU .....

# Direct-on-Line Starters

## IP65 Metal Enclosure



84 EXE1-D



84 EXE1-D



TA25DU .....

### Three Phase 400v up to 15kW - 400 or 230v coil

- Smoothly styled modern IP65 enclosed DOL starter IEC947-4-1
- Generous cabling space for easy installation
- Combined contactor/overload assembly can be unclipped from DIN rail to ease installation
- Support for 400v 3ph or 230v single phase
- Overload supplied separately

### IP65 Metal Enclosure + Contactor 400v coil - Select overload from below

Three Phase 400V [AC3]		Dimensions mm			Part No	Product Hierarchy 3600001	
KW	hp	H	W	D		Order Code	Price £
5.5	7.5	200	115	108	124EXE1D-OL	1TVL400412E5099	61.00
7.5	10.0				184EXE1D-OL	1TVL400416E5099	64.36
15.0	20.0				314EXE1D-OL	1TVL400430E5099	95.47

### IP65 Metal Enclosure + Contactor 230v coil - Select overload from below

Three Phase 400V [AC3]		Single Phase 230V [AC3]		Dimensions mm			Part No	Product Hierarchy 3600001	
KW	hp	KW	hp	H	W	D		Order Code	Price £
5.5	7.5	1.5	2.0	200	115	108	122EXE1D-OL	1TVL400212E5099	61.00
7.5	10.0	2.2	3.0				182EXE1D-OL	1TVL400216E5099	64.36
15.0	20.0	4.0	5.5				312EXE1D-OL	1TVL400230E5099	95.47

### Overload Selection

Three Phase 400V [AC3]		Single Phase		Overload Rating Amps		Part No	Product Hierarchy 1700006	
KW	hp	KW	hp	From	To		Order Code	Price £
0.25	0.33	0.05	0.08	0.63	1.0	TA25DU1.0	1SAZ211201R1021	24.48
0.37	0.55	0.07	0.09	1.0	1.4	TA25DU1.4	1SAZ211201R1023	24.48
0.55	0.75	0.1	0.12	1.3	1.8	TA25DU1.8	1SAZ211201R1025	24.48
0.75	1.0	0.18	0.25	1.7	2.4	TA25DU2.4	1SAZ211201R1028	24.48
1.1	1.5	0.25	0.33	2.2	3.1	TA25DU3.1	1SAZ211201R1031	24.48
1.5	2.0	0.37	0.50	2.8	4.0	TA25DU4.0	1SAZ211201R1033	24.48
2.2	3.0	0.55	0.75	4.5	6.5	TA25DU6.5	1SAZ211201R1038	24.48
3.7	5.0	0.75	1.15	6.0	8.5	TA25DU8.5	1SAZ211201R1040	24.48
4.0	5.5	1.1	1.5	7.5	11.0	TA25DU11	1SAZ211201R1043	24.48
5.5	7.5	1.5	2.0	10.0	14.0	TA25DU14	1SAZ211201R1045	25.76
7.5	10.0	2.2	3.0	13.0	19.0	TA25DU19	1SAZ211201R1047	29.50
11	15	3.2	4.3	18.0	25.0	TA25DU25	1SAZ211201R1051	32.78
15	20	3.8	5.3	24.0	32.0	TA25DU32	1SAZ211201R1053	43.14

# Direct-on-Line Starters + Isolator

## IP65 Metal Enclosure

### Three Phase 400v up to 15kW with Isolator - 400 or 230v coil

- Direct-On-Line Starter with isolator in metal enclosure IP65. IEC 947-4-1
- Support for 400v 3ph or 230v single phase
- Overload supplied separately

### IP65 Metal Enclosure + Contactor with Isolator 400v coil

Select overload from below

Three Phase 400V [AC3]		Dimensions mm			Part No	Product Hierarchy 3600001	
KW	hp	H	W	D		Order Code	Price £
5.5	7.5	200	200	138	124EXE2DI-OL	1TVL401412E5099	150.20
7.5	10.0				184EXE2DI-OL	1TVL401416E5099	150.20
15.0	20.0				314EXE2DI-OL	1TVL401430E5099	187.47

### IP65 Metal Enclosure + Contactor with Isolator 230v coil

Select overload from below

Three Phase 400V [AC3]		Single Phase 230V [AC3]		Dimensions mm			Part No	Product Hierarchy 3600001	
KW	hp	KW	hp	H	W	D		Order Code	Price £
5.5	7.5	1.5	2.0	200	200	138	122EXE2DI-OL	1TVL401212E5099	150.20
7.5	10.0	2.2	3.0				182EXE1DI-OL	1TVL401216E5099	150.20
15.0	20.0	4.0	5.5				312EXE1DI-OL	1TVL401230E5099	187.47



84EXE2-DI

### Overload Selection

Three Phase 400V [AC3]		Single Phase		Overload Rating Amps		Part No	Product Hierarchy 1700006	
KW	hp	KW	hp	From	To		Order Code	Price £
0.25	0.33	0.05	0.08	0.63	1.0	TA25DU1.0	1SAZ211201R1021	24.48
0.37	0.55	0.07	0.09	1.0	1.4	TA25DU1.4	1SAZ211201R1023	24.48
0.55	0.75	0.1	0.12	1.3	1.8	TA25DU1.8	1SAZ211201R1025	24.48
0.75	1.0	0.18	0.25	1.7	2.4	TA25DU2.4	1SAZ211201R1028	24.48
1.1	1.5	0.25	0.33	2.2	3.1	TA25DU3.1	1SAZ211201R1031	24.48
1.5	2.0	0.37	0.50	2.8	4.0	TA25DU4.0	1SAZ211201R1033	24.48
2.2	3.0	0.55	0.75	4.5	6.5	TA25DU6.5	1SAZ211201R1038	24.48
3.7	5.0	0.75	1.15	6.0	8.5	TA25DU8.5	1SAZ211201R1040	24.48
4.0	5.5	1.1	1.5	7.5	11.0	TA25DU11	1SAZ211201R1043	24.48
5.5	7.5	1.5	2.0	10.0	14.0	TA25DU14	1SAZ211201R1045	25.76
7.5	10.0	2.2	3.0	13.0	19.0	TA25DU19	1SAZ211201R1047	29.50
11	15	3.2	4.3	18.0	25.0	TA25DU25	1SAZ211201R1051	32.78
15	20	3.8	5.3	24.0	32.0	TA25DU32	1SAZ211201R1053	43.14



T25DU .....

# Direct-on-Line Reversing Starters

## IP65 Metal Enclosure

### Three Phase 400v up to 7.5kW Reversing - 400 or 230v coil

- Direct-On-Line Reversing Starter in metal enclosure IP65. IEC 947-4-1.
- Mechanically and electrically interlocked contactors.
- Overload supplied separately

### IP65 Metal Enclosure + Contactor with Isolator 400v coil

Select overload from below

Three Phase 400V [AC3]		Dimensions mm			Part No	Product Hierarchy 3600001	
KW	hp	H	W	D		Order Code	Price £
7.5	10.0	200	200	138	184EXE2DR-OL	1TVL403416E5099	124.62



### IP65 Metal Enclosure + Reversing Contactors 230v coil

Select overload from below

Three Phase 400V [AC3]		Single Phase 230V [AC3]		Dimensions mm			Part No	Product Hierarchy 3600001	
KW	hp	KW	hp	H	W	D		Order Code	Price £
7.5	10.0	2.2	3.0	200	200	138	182EXE2DR-OL	1TVL403216E5099	124.62



32EXE2-DR

### Overload Selection

Three Phase 400V [AC3]		Single Phase		Overload Rating Amps		Part No	Product Hierarchy 1700006	
KW	hp	KW	hp	From	To		Order Code	Price £
0.25	0.33	0.05	0.08	0.63	1.0	TA25DU1.0	1SAZ211201R1021	24.48
0.37	0.55	0.07	0.09	1.0	1.4	TA25DU1.4	1SAZ211201R1023	24.48
0.55	0.75	0.1	0.12	1.3	1.8	TA25DU1.8	1SAZ211201R1025	24.48
0.75	1.0	0.18	0.25	1.7	2.4	TA25DU2.4	1SAZ211201R1028	24.48
1.1	1.5	0.25	0.33	2.2	3.1	TA25DU3.1	1SAZ211201R1031	24.48
1.5	2.0	0.37	0.50	2.8	4.0	TA25DU4.0	1SAZ211201R1033	24.48
2.2	3.0	0.55	0.75	4.5	6.5	TA25DU6.5	1SAZ211201R1038	24.48
3.7	5.0	0.75	1.15	6.0	8.5	TA25DU8.5	1SAZ211201R1040	24.48
4.0	5.5	1.1	1.5	7.5	11.0	TA25DU11	1SAZ211201R1043	24.48
5.5	7.5	1.5	2.0	10.0	14.0	TA25DU14	1SAZ211201R1045	25.76
7.5	10.0	2.2	3.0	13.0	19.0	TA25DU19	1SAZ211201R1047	29.50
11	15	3.2	4.3	18.0	25.0	TA25DU25	1SAZ211201R1051	32.78
15	20	3.8	5.3	24.0	32.0	TA25DU32	1SAZ211201R1053	43.14



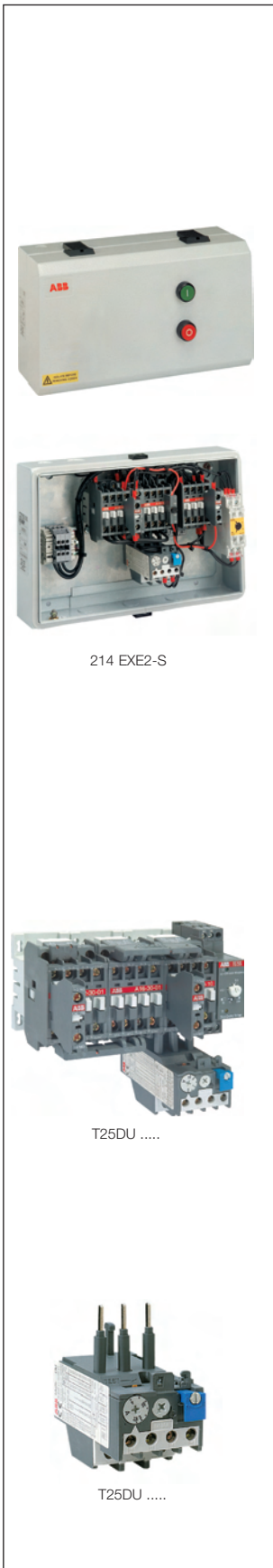
T25DU .....



# Star Delta Starters

## IP65 Metal Enclosure or DIN Rail Mounted

3



214 EXE2-S

T25DU .....

T25DU .....

### Enclosed Star-Delta up to 22kW 400V - 400 or 230v coil

- Star-Delta Starters in metal enclosure IEC 947-4-1.
- All three phase star delta starters, are complete with pushbuttons, and 415v or 230v coils.
- Resetting of overload via stop button.
- Overload for standard motor duty is supplied separately.

Note: The overload should be fitted in the Delta loop, therefore overload rating equal to FLC x by 0.58\*

### IP65 Metal Enclosure + Star Delta

400v coil Select overload from below

Three Phase 400V [AC3]		Dimensions mm			Part No	Product Hierarchy 3600001	
KW	hp	H	W	D		Order Code	Price £
15	20.0	195	308	138	314EXE2S-OL	1TVL404416E5099	268.82
22.0	30.0				454EXE2S-OL	1TVL404426E5099	432.71

230v coil Select overload from below

15	20.0	195	308	138	312EXE2S-OL	1TVL404216E5099	268.82
22.0	30.0				452EXE2S-OL	1TVL404226E5099	432.72

### DIN Rail Mounted Star-Delta up to 22kW 400V

- A range of Star-Delta Starters mounted on PR30 rail.
- Terminals to enable remote start and stop.
- 230 or 400v control circuit.
- Compact design with electrical and mechanical interlock.

Note: The overload should be fitted in the Delta loop, therefore overload rating equal to FLC x by 0.58\*

### DIN Rail Mounted Star Delta

400v coil Select overload from below

Three Phase 400V [AC3]		Part No	Product Hierarchy 3600001	
KW	hp		Order Code	Price £
15	20.0	314EXE4S-OL	1TVL004416E5099	181.85
22.0	30.0	454EXE2S-OL	1TVL004426E5099	228.00

230v coil Select overload from below

15	20.0	312EXE4S-OL	1TVL004216E5099	181.85
22.0	30.0	452EXE4S-OL	1TVL004226E5099	228.00

### Overload Selection

Three Phase 400V [AC3]		Overload Rating Amps		Part No	Product Hierarchy 1700006	
KW	hp	From	To		Order Code	Price £
3.7	5.0	6.0	8.5	TA25DU8.5	1SAZ211201R1040	24.48
5.5	7.5	10.0	14.0	TA25DU14	1SAZ211201R1045	25.76
7.5	10.0	13.0	19.0	TA25DU19	1SAZ211201R1047	29.50
15	20	24.0	32.0	TA25DU32	1SAZ211201R1053	43.14

### \*Overload Calculation

Motor FLC	Delta Loop Setting
5	2.9
6	3.5
7	4.0
8	4.6
9	5.2
10	5.8
12	7.0
14	8.1
16	9.3
18	10.4
20	11.6
25	14.5
30	17.4
35	20.3
35	20.3
40	23.2
45	26.1
45	26.1
50	29.0
55	32.0



# Star Delta Starter+Isolator

## IP65 Metal Enclosure



214 EXE2-SI

TA25DU .....

### Enclosed Star-Delta + Isolator up to 22kW 400V - 400 or 230v coil

- Star-Delta Starters with isolator in metal enclosure IEC 947-4-1.
- All three phase star delta starters, are complete with pushbuttons, no overload and 415v or 230v coils.
- Resetting of overload via stop button.
- Overload for standard motor duty is supplied separately.

### IP65 Metal Enclosure + Star Delta + Isolator

400v coil Select overload from below

Three Phase 400V [AC3]		Dimensions mm			Part No	Product Hierarchy 3600001	
KW	hp	H	W	D		Order Code	Price £
15	20.0	195	308	138	314EXE2SI-OL	1TVL405416E5099	352.83
22.0	30.0				454EXE2SI-OL	1TVL405426E5099	597.44

230v coil Select overload from below

15	20.0	195	308	138	312EXE2SI-OL	1TVL405216E5099	352.83
22.0	30.0				452EXE2SI-OL	1TVL405226E5099	597.44

Note: The overload should be fitted in the Delta loop, therefore overload rating equal to FLC x by 0.58\*

### Overload Selection

Three Phase 400V [AC3]		Overload Rating Amps		Part No	Product Hierarchy 1700006	
KW	hp	From	To		Order Code	Price £
3.7	5.0	6.0	8.5	TA25DU8.5	1SAZ211201R1040	24.48
5.5	7.5	10.0	14.0	TA25DU14	1SAZ211201R1045	25.76
7.5	10.0	13.0	19.0	TA25DU19	1SAZ211201R1047	29.50
15	20	24.0	32.0	TA25DU32	1SAZ211201R1053	43.14

### \*Overload Calculation

Motor FLC	Delta Loop Setting
5	2.9
6	3.5
7	4.0
8	4.6
9	5.2
10	5.8
12	7.0
14	8.1
16	9.3
18	10.4
20	11.6
25	14.5
30	17.4
35	20.3
35	20.3
40	23.2
45	26.1
45	26.1
50	29.0
55	32.0

# Heating & Lighting

## Enclosed Contactors



HL 25P-230



HL 25-230



HL 63-230

### Plastic Enclosure IP66 Four Pole Contactor - 230v coil

(Including neutral terminal strip)

Heating AC1	Amps per pole Fluorescent Mercury	Amps per pole Tungsten	Aux Con	Main Poles	Part No	Product Hierarchy 3600004	
						Order Code	Price £
25A	16A	16A	A	4	HL25P-230-4	1TVL346209E5000	64.61
45A	30A	32A	A	4	HL45P-230-4	1TVL346226E5000	92.35

### Four Pole Contactor - 400v coil

(Including neutral terminal strip)

25A	16A	16A	A	4	HL25P-400-4	1TVL446409E5000	67.97
45A	30A	32A	A	4	HL45P-400-4	1TVL446426E5000	95.73

### Metal Enclosure IP65 Four Pole Contactor - 230v coil

(Including neutral terminal strip)

Heating AC1	Amps per pole Fluorescent Mercury	Amps per pole Tungsten	Aux Con	Main Poles	Part No	Product Hierarchy 3600004	
						Order Code	Price £
25A	16A	16A	A	4	HL25-230-4	1TVL446209E5000	67.97
45A	30A	32A	A	4	HL45-230-4	1TVL446226E5000	95.73
70A	40A	42A	A	4	HL63-230-4	1TVL446245E5000	254.80
100A	70A	70A	A	4	HL100-230-4	1TVL446250E5000	361.51

### Four Pole Contactor - 400v coil

(Including neutral terminal strip)

25A	16A	16A	A	4	HL25P-400-4	1TVL446409E5000	67.97
45A	30A	32A	A	4	HL45P-400-4	1TVL446426E5000	95.73
70A	40A	42A	A	4	HL63-400-4	1TVL446445E5000	254.80
100A	70A	70A	A	4	HL100-400-4	1TVL446450E5000	361.51

### Dimensions

Part No	Height mm	Width mm	Depth mm
HL25P - HL45P	230	106	127
HL25 - HL45	200	140	136
HL63 - HL100	240	170	153

# DC Injection Brakes

## Powerbrake



### Production - DOL

Used to increase the production output on machines which would normally take a long period of time to come to rest after the stop button has been pressed.

Available in two formats with DOL starter and without starter (for use with existing DOL or Star Delta starter.)

Production brakes offer compliance with the **POWER 98** regulations, relating to the stopping time of motors within the woodworking industry.

- Reduced stopping time
- Increase production cycle
- Smooth controlled stopping
- Adjustable braking torque and stop time
- Easy installation
- Maintenance free

### Three Phase Basic Brake

kW	A	HP	Voltage	Dimensions mm			Part No	Product Hierarchy 3800001	
				H	W	D		Order Code	Price
3	6.6	4	380-415	195	308	138	PBP3-400	1TVL103499B3999	468.32
5.5	11.5	7.5	380-415				PBP5-400	1TVL105499B3999	512.71

### Three Phase Production Brake

3	6.6	4	380-415	195	308	138	PBPS3-400E	1TVL603409B3085	492.53
5.5	11.5	7.5	380-415				PBPS5-400E	1TVL605412B3140	537.70

### Emergency

In the case of an emergency, Powerbrake can be initialised by a safety device which when activated causes the Powerbrake to disengage the AC supply to the motor and inject a controlled DC current into the motor windings bringing the motor to a rapid rest safely.

**Injection braking cannot operate in the event of supply failure**

- Increased safety in hazardous machines
- Adjustable braking torque and stop time
- Smooth stopping
- Fault/Trip indication
- Easy installation
- Maintenance free

### Three Phase Critical Brake

kW	A	HP	Voltage	Dimensions mm			Part No	Product Hierarchy 3800001	
				H	W	D		Order Code	Price
3	6.6	4	380-415	195	308	138	PBC3-400	1TVL303409B3999	456.10
5.5	11.5	7.5	380-415				PBC5-400	1TVL305412B3999	506.18

# DC Injection Brakes

## Powerbrake

### Modules

Solid state injection brakes provide frictionless fast, smooth braking of single and three phase AC induction motors by injecting a controlled DC current into the motor windings: this introduces a stationary magnetic field which exerts a braking torque on the rotor.

- Reduced stopping time
- Increased production
- Increased safety in hazardous machines
- Smooth controlled stopping
- No wear on moving mechanical parts
- Adjustable braking torque and stop time
- Easy installation
- Maintenance free



DCB5A

### Three Phase Basic Brake

kW	HP	Voltage	Max. Brake Current (A) 10s Opps.	Dimensions mm			Part No	Product Hierarchy 3800001	
				H	W	D		Order Code	Price
4	5.5	380-415	20	90	45	115	DCB4	1TVL904499B3999	175.05
5.5	7.5	380-415	30				DCB5A400	1TVL905499B3999	235.86

# Pushbutton Stations

## Plastic IP66 Enclosures



### Plastic Pushbutton Stations

- IP66 thermoplastic control station complete with actuator, contact blocks and legend plate. Supplied fully assembled. Other variations are available on request.



Description	Dimensions mm			Part No	Product Hierarchy 3600003	
	H	W	D		Order Code	Price £
1 Way Start/Green	75	101	74	1GO	1TVL110000P3101	20.41
1 Way Stop/Red				1RC	1TVL101000P3102	20.41
Mushroom Head 30mm (twist release) 300V 5A Max - to IEC60947-5-5	75	101	92	1RSC	1TVL101000P3203	27.56
Emergency Stop 40mm (twist release) - to IEC60947-5-5	75	101	107	1RSC-EN	1TVL101000P3204	37.80
Mushroom Head 60mm (twist release) - to IEC60947-5-5	75	101	107	1RMSC50	1TVL101000P3205	39.85
Emergency Stop 40mm (with key release) 300V 5A Max - to IEC60947-5-5	75	101	122	1RMSKC	1TVL101000P3206	41.92
Two-position switch	75	101	74	1H2O-I	1TVL110000P3107	24.58
Two-position key switch (key removable both positions)				1K2O-I	1TVL110000P3108	31.98
Three position switch				1H3I-O-II	1TVL110100P3109	32.89
Three position key switch (key removable in all positions)				1K3I-O-II	1TVL110100P3110	40.29

# Pushbutton Stations & Terminals

IP66 Plastic & Stainless Steel Enclosure  
Terminals in IP65 Enclosures

## Plastic Pushbutton Stations

- IP66 thermoplastic control station complete with actuator, contact blocks and legend plate.  
Supplied fully assembled. Other variations are available on request.



2GORC



1RSC-ENSS

Description	Dimensions mm			Part No	Product Hierarchy 3600003	
	H	W	D		Order Code	Price £
Start/Green and Stop/Red	75	141	79	2GORC	1TVL211000P3111	31.54
Start/Green and Red/Emergency Stop 40mm (twist release) to IEC60947-5-5	75	141	107	2GORSC-EN	1TVL211000P3112	41.07
Forward/Green - Stop/Red - Reverse/Green	75	181	79	3GOGORC	1TVL311100P3113	48.40
Two Green and Red/Emergency Stop 40mm (twist release) to IEC60947-5-5	75	181	107	3GOGORSC-EN	1TVL311100P3114	57.04
Emergency Stop 40mm (stay-put) - to EN418	100	140	100	1RSC-ENSS	1TVL100000P5015	67.25

## Stainless Enclosures



Description	Part No	Product Hierarchy 3900004	
		Order Code	Price £
1 Gang Empty Enclosure 55mm deep	01.001001.SS1	01.001001.SS1	86.63
2 Gang Empty Enclosure 55mm deep	01.001002.SS2	01.001002.SS2	93.83
3 Gang Empty Enclosure 55mm deep	01.001003.SS3	01.001003.SS3	108.26

## Terminals in Enclosures



5-JBOX2.5



10TERM 2.5

Description	No. Terms	[A] 1th	Dimensions mm			Part No	Product Hierarchy 3600005	
			H	W	D		Order Code	Price £
Junction Box IP65 junction box with flexible knockouts	5	24				5JBOX2.5	5-JBOX2.5 (Pack of 3)	13.25
Terminal Box 2.5mm IP55 plastic enclosure	5	24	118	163	72	5TERM2.5	5TERM2.5	17.08
	10	24				10TERM2.5	10TERM2.5	21.63
Terminal Box 4mm IP55 plastic enclosure	5	32				5TERM4	5TERM4	18.11
	10	32				10TERM4	10TERM4	23.64





# Domestic Equipment

## Motion Detectors & Wiring Accessories



4

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# Domestic Equipment - PIRs

## Watchdog, Waveline, Presence Tech 360

4



ProfessionalLine 90



AlarmLine 220



ProfessionalLine 280



Corner Mounting Bracket



RC Suppressor



### Watchdog PIRs

	Product Hierarchy 1000001	
	Order Code	Price
90 Brown	6800-0-2318	43.26
90 White	6800-0-2321	43.26
90 Anthracite	6800-0-2322	43.26
220 White with R/C	6800-0-2300	66.95
220 Brown with R/C	6800-0-2301	66.95
220 Anthracite with R/C	6800-0-2302	66.95
220 White	6800-0-2334	57.68
220 Brown	6800-0-2335	57.68
220 Anthracite	6800-0-2336	57.68
Alarm 220 Brown with R/C	6800-0-2311	79.31
Alarm 220 Anthracite with R/C	6800-0-2312	79.31
Alarm 220 White with R/C	6800-0-2314	79.31
280 White with R/C	6800-0-2307	72.05
280 Brown with R/C	6800-0-2308	72.05
280 Anthracite with R/C	6800-0-2309	72.05

### Watchdog Accessories

	Order Code	Price
Corner Bracket White 6887-204-500	6899-0-0292	7.21
Corner Bracket Brown 6887-201-500	6899-0-0293	7.21
Corner Bracket Anthracite 6887-35-500	6899-0-0294	7.21
Service Remote Control	6899-0-0299	15.45
RC Suppressor	6899-0-0231	7.21
Surface Mounting Box 6885-500	6899-0-0282	7.21

### Waveline

	Order Code	Price
6745 AGM-204 Busch WD 220 Waveline white	6700-0-0018	111.19
6745 AGM-201 Busch WD 220 Waveline brown	6700-0-0019	111.19
6745 AGM-35 Busch WD 220 Waveline anthr	6700-0-0020	111.19
6701 Busch WD Waveline HF-Receiver	6700-0-0022	74.16

### Presence Tech 360

	Order Code	Price
360 Presence Detector 700W Relay	P 5812WHI	92.65
360 Presence Detector 700W Relay Dualline	P5812/11WHI	94.71
360 Presence Detector 2.3Kw Relay	P 5401WHI	101.92
360 Presence Detector 2.3Kw Relay Dualline	P5401/11WHI	102.92

# Domestic Equipment - KNX

## Smart Homes and Intelligent Building Control



Description	Product Hierarchy 1100001	
	Order Code	Price
SV/S 30.640.5 power supply	GHQ6310001R0001	306.69
RM/S 2.1 Roomaster	2CDG110095R0011	877.56
SA/S12.10.1 Switch Actuator	2CDG110042R0011	415.39
BE/S 8.230.1 Binary Input	2CDG110054R0011	313.54
DG/S8.1 Dali Gateway	2CDG 110 025 R0011	409.53
LK/S4.1 Line Coupler	2CDG110027R0011	304.32
Busklemme Connection Terminal	GHQ6301901R0001	0.91
6132-0-0162 Watchdog PIR	6132-0-0162	184.40
US/U 2.2 Interface	GHQ6310074R0111	56.00
6120-0-0065 Bus Coupler	6120-0-0065	67.74
Busch Comfort Panel	8136-0-0002	2600.00
Comfort Panel Bus Coupler	6186-0-0021	337.43
Comfort Panel Frame Glass Black	8136-0-0004	304.50
Comfort Panel Design Strip	8136-0-0018	59.45
Comfort Panel Back Box	8136-0-0020	76.12
Busch Pri-On Black - Screen and Rotary	6310-0-0076	1106.00
Busch Pri-On Black - 3-Fold Operator	6310-0-0072	182.00
Busch Pri-On - 3-Module Base Frame	6310-0-0084	104.30
Busch Pri-On - Black Top Strip	6310-0-0089	11.76
Busch Pri-On - Black Bottom Strip	6310-0-0037	11.76
Power Bus Coupler	6120-0-0072	177.94
DIN Mount 24v 2.5A PSU	1SVR427044R0200	75.30

# Domestic Equipment

## Dimmers

4

### High Wattage Dimmers

- DIN Rail Mounted

The ideal component for public and commercial buildings to cope with higher loads. The MDRC Dimmer allows step by step increase in load capacities up to 27,000 watts. The unit can be installed in the distribution board and can be controlled by one push switch. Inter-changeable cover cap on the top of the module, which can be used for maintenance purposes. Choose from Rotary Control Cap, Push Button or Timer for central control. Each module (6584-500) comes with ready-made line jack (RJ12) for capacity expansion.



#### Universal Master Dimmer (MDRC)

For switching and dimming incandescent, 230V Halogen, LV Halogen with conv. or Electronic Transformer. Light level memory, capacity-expansion with 6584-500, low noise, short circuit protected, overload protected.

Rated: 230V  
 Rated Frequency: 50/60Hz.  
 Rated Power: 60-500W/VA

Product Hierarchy 9000002	
Order Code	Price
6590-0-0178	101.94



#### Universal Central Module (MDRC)

To be used with 6583-500, combination of up to 6 modules (3,000W/VA)

Rated: 230V  
 Rated Frequency: 50/60Hz.  
 Rated Power: 60-500W/VA

Product Hierarchy 9000002	
Order Code	Price
6590-0-0179	85.94



#### Control Unit (MDRC)

For controlling up to 2 x 9 groups, on site operation via control input 0-10VDC/0-20mA, special adjustable functions ie: cleaning light, vacation, group control.

Rated: 230V  
 Rated Frequency: 50Hz.  
 2 x Control Signal Outputs

Product Hierarchy 9000002	
Order Code	Price
6590-0-0155	93.97



#### Push Button Cap

To be used with Master 6583-500 to replace original cover, resting on Master Dimmer

Product Hierarchy 9000002	
Order Code	Price
6590-0-0181	11.47

#### Rotary Knob Cap

To be used with Master 6583-500 to replace original cover, resting on Master Dimmer

Product Hierarchy 9000002	
Order Code	Price
6590-0-0183	11.47



#### Timer Control Cap

To be used with Master 6583-500 to replace original cover, resting on Master Dimmer

Product Hierarchy 9000002	
Order Code	Price
6590-0-0185	55.87

# Domestic Equipment - Concept BS

## Wiring Accessories

### Concept BS

#### ...concept in every detail

For over 125 years our products have mirrored the growth and development changes in electrical wiring technologies. Quality and reliability of our products have always been our first priority. Having a concept in every detail was, is and always will be our secret to success.

With its unique design - its square rocker combined with a slight curve on the top and bottom - concept bs is the best choice to meet your pursuit of EWA products with high quality and attractive design.



AC101

AC105



AC429

AC107



AC120WH

AC177



AC176

AC109



AC5101-S



AC5103

#### Switches

	Product Hierarchy 9000002	
	Order Code	Price
1 gang 1 way switch, 10AX	AC101	1.44
1 gang 2 way switch, 10AX	AC105	1.85
2 gang 2 way switch, 10AX	AC106	2.56
3 gang 2 way switch, 10AX	AC107	4.62
4 gang 2 way switch, 10AX	AC108	8.18
Intermediate switch, 10AX	AC119	2.56
Push switch with "bell" symbol, 10A	AC429	2.03
1 gang 1 way push switch, 10A	AC430	2.03
2 gang 1 way push switch, 10A	AC438	3.47
1 gang 1 way double pole switch, with marking "on", 20AX	AC111	2.44
1 gang 1 way double pole switch, with marking "On", with flex outlet, 20AX	AC120	6.89
1 gang 1 way double pole switch, with marking "On", "water heater", with flex outlet, 20AX	AC120WH	4.53
1 gang 1 way double pole switch with LED, 32A	AC176	9.06
1 gang 1 way double pole switch with LED, 45A	AC177	9.54
45A double pole switch with LED and 13A switched socket outlet with neon	AC118	11.77
Pull cord switch, 10AX	AC109	4.59
Fan isolator 3 pole, 10A	AC134	8.83

#### Frames

1 gang blank plate	AC504	1.09
2 gang blank plate	AC505	2.17
1 gang adapter plate for Busch-Jaeger solo/future/carat/pure series white	AC503	1.17
1 gang adapter plate for Busch-Jaeger solo/future/carat/pure series silver	AC503-S	1.41
1 gang frame concept bs silver	AC5101-S	0.35
2 gang frame concept bs	AC5201	0.68
2 gang frame concept bs silver	AC5201-S	0.79
2 gang frame concept bs grey	AC5201-G	0.89
3 gang frame concept bs	AC5103	0.97
3 gang frame concept bs grey	AC5103-G	1.24
3 gang frame concept bs silver	AC5103-S	1.17
4 gang frame concept bs	AC5104	1.27
4 gang frame concept bs silver	AC5104-S	1.53
4 gang frame concept bs grey	AC5104-G	1.59
2G Curve Frame For Shaver Socket-Silver	CBA0146611P1001	0.79
2G Linear Frame For 2G Box-Silver	CBA0326601P1011	0.79
Earthing Kit	AC543	0.74

# Domestic Equipment - Concept BS

## Concept BS Series



AC301

AC302



AC303

AC305



AC333

AC332



AC208

AC238



AC401



AC210



AC506



AC332

AC402



AC403-02

AC417

### TV/Data/Communication

	Product Hierarchy 9000002	
	Order Code	Price
1 gang TV outlet, dead-end feeder	AC301	2.62
1 gang TV outlet, loop-through , isolated	AC304	3.85
2 gang TV outlet, twin isolated, loop-through , isolated	AC302	6.91
TV & FM outlet, F-type dead-end feeder, isolated	AC312	6.33
Sat outlet, F-type dead-end-feeder, isolated	AC303	4.94
1gang telephone outlet, BT master, RJ11,6-pole UPT	AC305	5.45
1gang telephone outlet, BT second, RJ11,6-pole UPT	AC306	4.88
1 gang computer outlet, RJ45, cat.5e, 8-pole UTP	AC331	6.29
1 gang computer outlet, RJ45, cat.6, 8-pole UTP	AC333	11.51
2 gang computer outlet, RJ45, cat.5e, 8-pole UTP	AC332	18.95

### Sockets & Outlets

BS socket outlet, 13A	AC208	4.09
BS double pole switched socket outlet, 13A	AC237	3.80
BS double pole switched socket outlet with neon, 13A	AC238	4.42
2 gang BS double pole switched socket outlet, 13A	AC239	3.61
2 gang BS double pole switched socket outlet with neon, 13A	AC240	7.24
BS round pin socket outlet, 5A	AC210	4.21
BS double pole round pin switched socket outlet, 5A	AC221	5.56
Shaver socket outlet	AC401	26.48
Fused connection unit, 13A	AC506	3.53
Switched Fused connection unit with neon, 13A	AC507	5.71

### Hotel Wiring Accessories

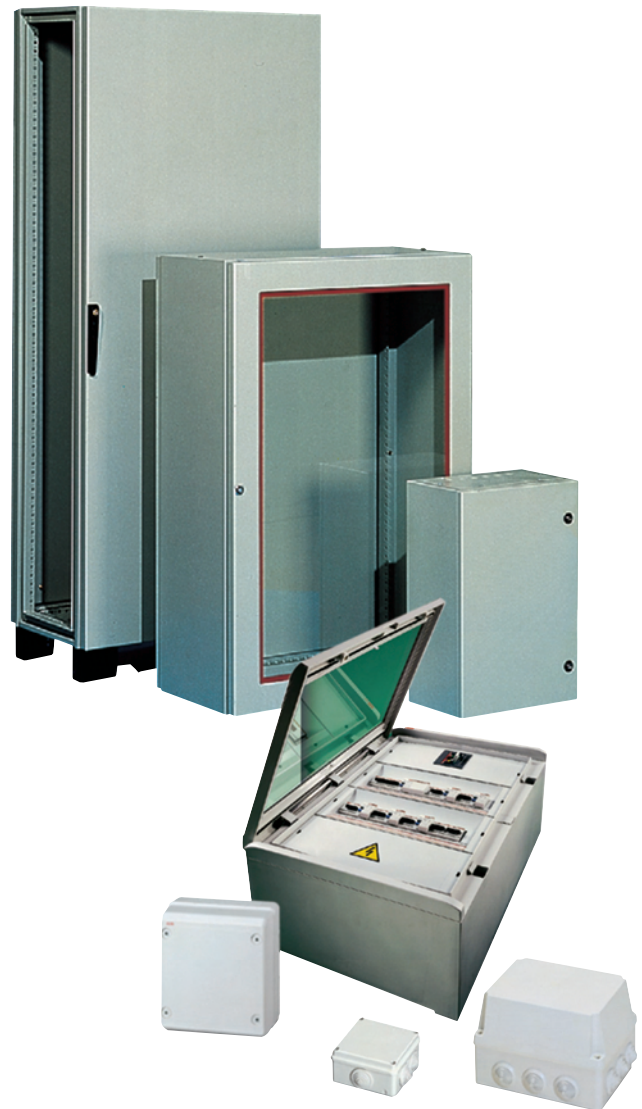
1 gang computer outlet, RJ45, cat.6, 8-pole UTP	AC333	11.51
2 gang computer outlet, RJ45, cat.5e, 8-pole UTP	AC332	18.95
Card Switch, 20A	AC402	26.48
Bell push-switch "Do Not Disturb" & "Please Clean Room" marking and indicator, 10A	AC403-002	16.24
Thermostat controller with display, 2 pipe system	AC417	47.06





# Enclosures

## Overview



5

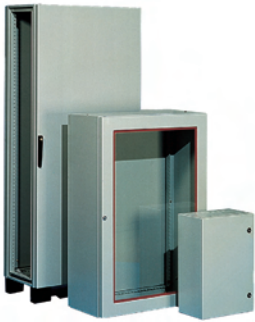
### Contents

IP65 Sheet Steel Enclosures . . . . .	68 - 69
IP40-IP66 Insulated Enclosures . . . . .	70- 80
Trunking . . . . .	81
IP Ratings . . . . .	82

# Enclosures

## IP65 Sheet Steel Enclosure (For external use please consult us)

Colour: RAL7035

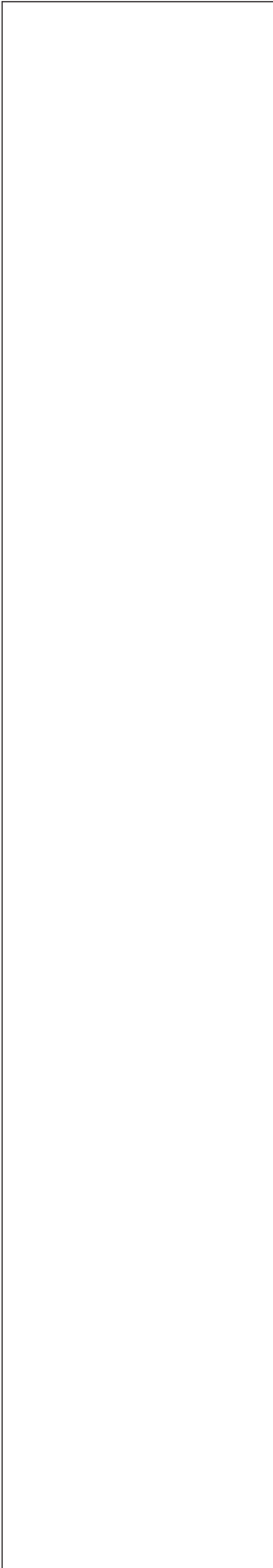


Description H x W x D	Product Hierarchy 3200003	
	Order Code	Price
300 x 200 x 150	SRN3215K	38.26
300 x 300 x 150	SRN3315K	41.74
400 x 300 x 150	SRN4315K	47.01
400 x 300 x 200	SRN4320K	49.52
400 x 600 x 200	SRN4620K	78.36
500 x 300 x 200	SRN5320K	58.04
500 x 400 x 200	SRN5420K	64.43
500 x 400 x 250	SRN5425K	67.92
600 x 400 x 200	SRN6420K	78.36
600 x 400 x 250	SRN6425K	83.58
800 x 600 x 250	SRN8625K	136.99
600 x 600 x 250	SRN6625K	100.41
700 x 500 x 200	SRN7520K	100.41
700 x 500 x 250	SRN7525K	106.22
800 x 600 x 300	SRN8630K	145.69
800 x 800 x 300	SRN8830K	158.36
1000 x 600 x 250	SRN10625K	175.88
1000 x 600 x 300	SRN10630K	193.30
1000 x 800 x 300	SRN10830K	222.29
1200 x 600 x 300	SRN12630K	228.70
1200 x 800 x 300	SRN12830K	245.52

Description H x W x D	Product Hierarchy 3200003	
	Order Code	Price
500 x 400 x 200	SRN5420VK	86.48
500 x 400 x 250	SRN5425VK	90.55
600 x 400 x 200	SRN6420VK	103.90
600 x 400 x 250	SRN6425VK	109.71
800 x 600 x 250	SRN8625VK	163.10
700 x 500 x 200	SRN7520VK	121.07
700 x 500 x 250	SRN7525VK	127.69
800 x 600 x 250	SRN8625VK	163.10
800 x 600 x 300	SRN8630VK	184.00
1000 x 600 x 250	SRN10625VK	208.39
1000 x 600 x 300	SRN10630VK	225.80
1000 x 800 x 300	SRN10830VK	249.59
1200 x 600 x 300	SRN12630VK	255.40
1200 x 800 x 300	SRN12830VK	272.81

# Enclosures

## IP65 Sheet Steel Enclosure



### Accessories

Description	Product Hierarchy 3200003	
	Order Code	Price
Document pocket	AA5600	14.07
N.4 wall mounting brackets	AA1206	5.62
Lock with Yale insert & key	AA8002	13.93

# Enclosures - Insulated IP40 - IP66

## Panorama

IP40 Modular Units	IP40/55 Panel Fronts	IP44/55 Thermoplastic Enclosures	IP65 Polycarbonate Enclosures	IP55 Modular Unit
Terminals	Lock with Key	Wall Mounting Brackets	Aluminium Mounting Plate	Neutral Terminals
Terminal Holders		Metal Base Plates	Insulating Mounting Plate	Wall Mounting Brackets
Wall Mounting Brackets			Wall Mounting Brackets	Lock with Key
			Terminals	
			Terminal Holders	

5

# Enclosures - Insulated IP40 - IP66

## Panorama

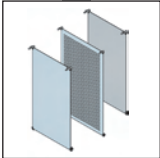
### IP65 Modular Unit Multiple Door



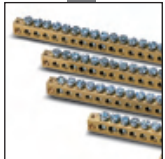
### IP66 Gemini Range



Terminals



Mounting  
Plates



Terminal  
Holders



Full Height  
Inner Door



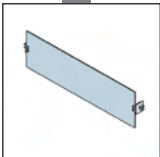
Wall  
Mounting  
Brackets



Enclosure  
Uprights



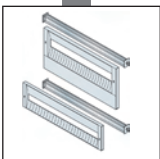
Screw Lead  
Sealing  
Accessory



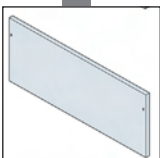
Plain Rear  
Plates



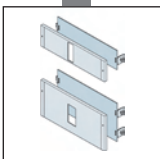
Lock with  
Key



MCB Kits



Plain Inner  
Door



T-Max  
Mounting  
Kit

# Enclosures - IP44 & 55 Thermoplastic

## Adaptable Boxes



### IP44 Box

Size	Description	Product Hierarchy 3100007	
		Order Code	Price
ø65 - H35	round with glands & press on lid	00800	0.74
ø80 - H40	round with glands & press on lid	00802	0.91
65 x 65 x 32	with glands & screw on lid	00808	1.00
80 x 80 x 40	with glands & screw on lid	00810	1.13
100 x 100 x 50	with glands & screw on lid	00816	2.11
105 x 70 x 50	with glands & screw on lid	00820	1.91
100 x 100 x 80	with glands & screw on lid	00821	2.12
153 x 110 x 66	with glands & low screw on lid	00822	3.61
160 x 135 x 77	with glands & low screw on lid	00824	6.44
220 x 170 x 80	with glands & low screw on lid	00826	8.34
310 x 240 x 110	with glands & low screw on lid	00828	15.25
160 x 135 x 150	with glands & high screw on lid	00830	7.47
220 x 170 x 150	with glands & high screw on lid	00832	11.73
310 x 240 x 160	with glands & high screw on lid	00834	20.16

### IP55 Box

Size	Description	Product Hierarchy 3100007	
		Order Code	Price
100 x 100 x 50	with smooth walls & low screw-on lid	00846	1.97
105 x 70 x 50	with smooth walls & low screw-on lid	00850	2.06
100 x 100 x 80	with smooth walls & low screw-on lid	00851	2.32
153 x 110 x 66	with smooth walls & low screw-on lid	00852	3.14
160 x 135 x 77	with smooth walls & low screw-on lid	00854	5.06
220 x 170 x 80	with smooth walls & low screw-on lid	00856	7.45
310 x 240 x 110	with smooth walls & low screw-on lid	00858	13.59
153 x 110 x 66	with smooth walls & transparent low screw-on lid	00872	5.30
160 x 135 x 150	with smooth walls & transparent high screw-on lid	00880	8.88
220 x 170 x 150	with smooth walls & transparent low screw-on lid	00882	14.49
310 x 240 x 160	with smooth walls & transparent high screw-on lid	00884	22.70
160 x 135 x 150	with smooth walls & high screw-on lid	00860	6.12
220 x 170 x 150	with smooth walls & high screw-on lid	00862	10.15
310 x 240 x 160	with smooth walls & high screw-on lid	00864	16.77
160 x 135 x 70	with smooth walls & transparent low screw-on lid	00874	6.51
220 x 170 x 80	with smooth walls & transparent low screw-on lid	00876	11.03
310 x 240 x 110	with smooth walls & transparent low screw-on lid	00878	19.42



# Enclosures - IP65 in Polycarbonate

## Adaptable Boxes



### IP65 Polycarbonate Enclosure

Size HxWxD	Product Hierarchy 3100007	
	Order Code	Price
220 x 140 x 140	12804	13.45
220 x 205 x 140	12808	15.39
220 x 275 x 140	12812	18.03
370 x 275 x 140	12814	25.50
570 x 275 x 140	12816	37.42
570 x 380 x 140	12818	45.17

### Aluminium Mounting Plate

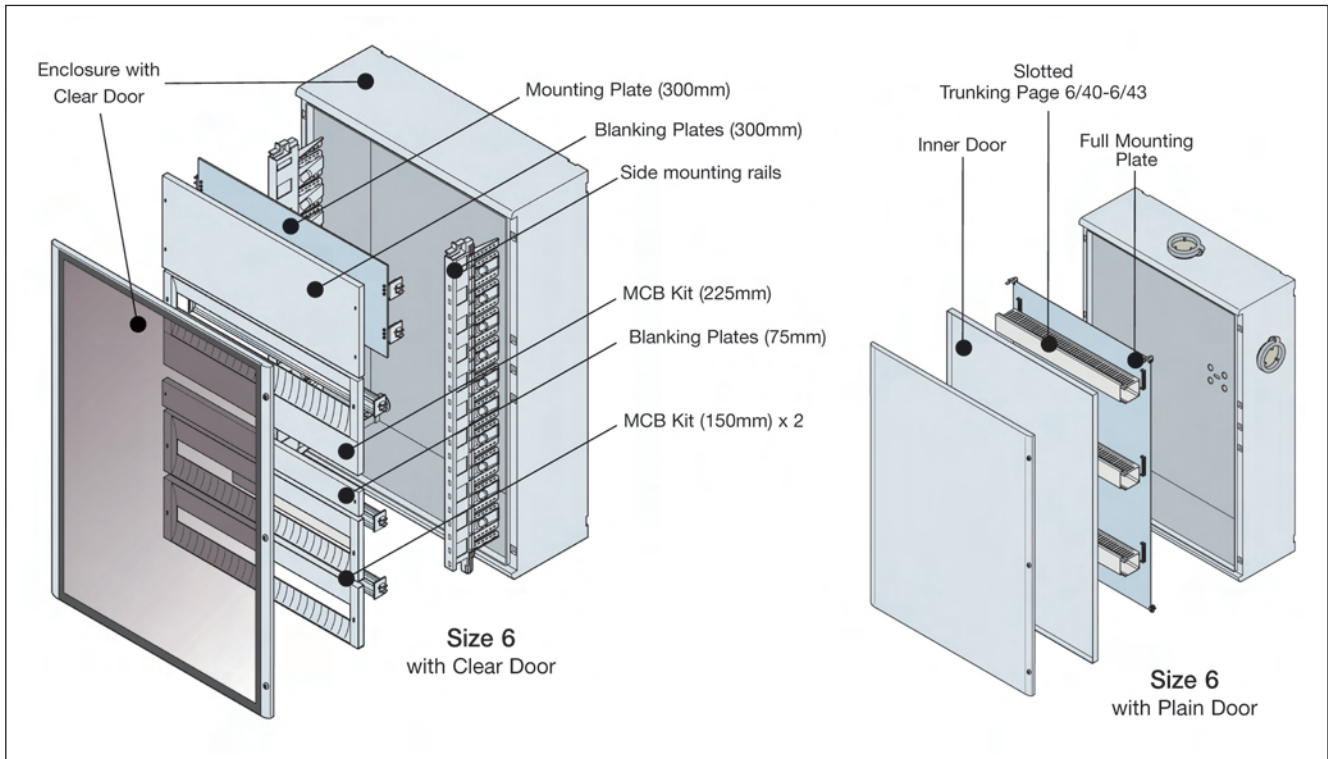
For Enclosure Type	Product Hierarchy 3100007	
	Order Code	Price
12804	12842	2.67
12808	12844	3.58
12812	12845	4.96
12814	12846	7.24
12816	12847	8.82
12818	12848	13.12

### Wall Mounting Brackets

For Enclosure Type	Product Hierarchy 3100007	
	Order Code	Price
Fits All	12858	5.41

# Enclosures

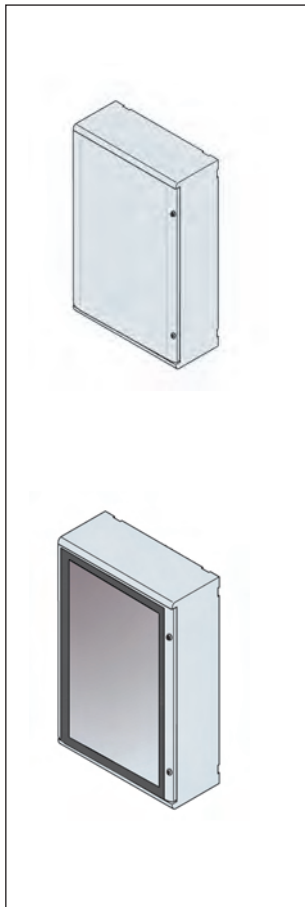
## IP66 Gemini Weather Proof Range



5

### Gemini Enclosures

Components are suitable for any type and size of enclosure



#### Enclosure with Plain Door

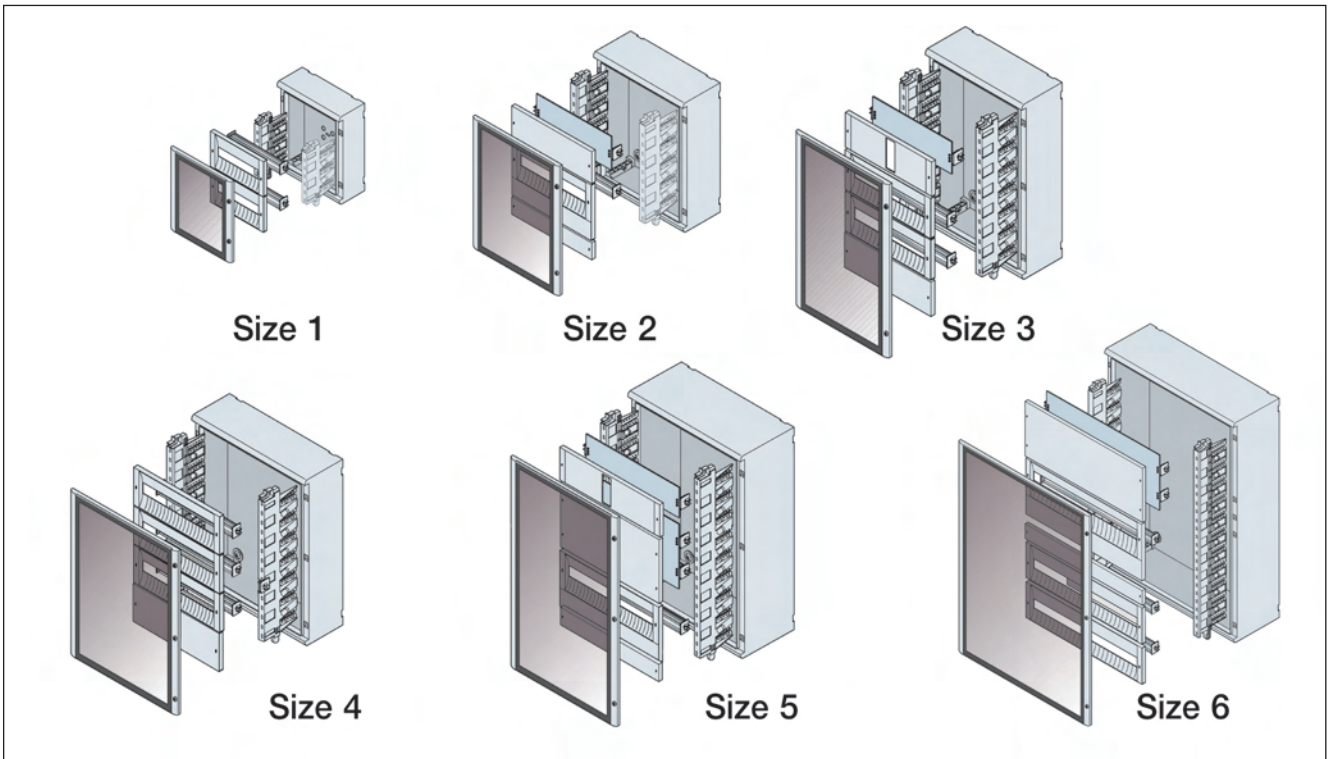
Size HxWxD	Usable Height	Size	Product Hierarchy 3100007	
			Order Code	Price
400 x 335 x 210	300	1	1SL0201A00	79.42
550 x 460 x 260	450	2	1SL0202A00	121.19
700 x 460 x 260	600	3	1SL0203A00	153.85
700 x 590 x 260	600	4	1SL0204A00	182.94
855 x 590 x 360	750	5	1SL0205A00	275.01
1005 x 840 x 360	900	6	1SL0206A00	533.47

#### Enclosure with Plain Door

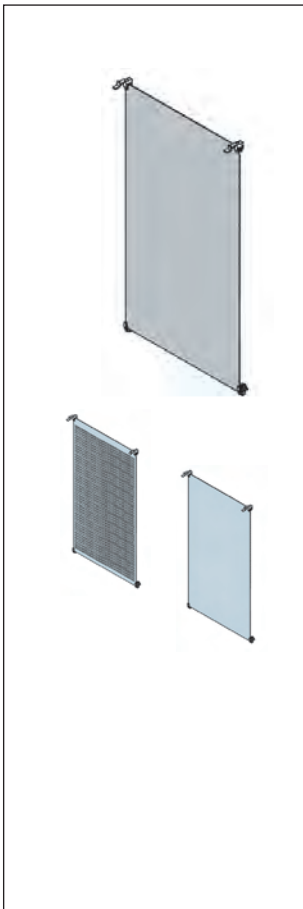
Size HxWxD	Usable Height	Size	Product Hierarchy 3100007	
			Order Code	Price
400 x 335 x 210	300	1	1SL0211A00	96.88
550 x 460 x 260	450	2	1SL0212A00	140.77
700 x 460 x 260	600	3	1SL0213A00	168.23
700 x 590 x 260	600	4	1SL0214A00	220.68
855 x 590 x 360	750	5	1SL0215A00	294.55
1005 x 840 x 360	900	6	1SL0216A00	566.52

# Enclosures

## IP66 Gemini Weather Proof Range



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### Full Mounting Plates

Size HxW	Size	Product Hierarchy 3100007	
		Order Code	Price
285 x 235	1	1SL0259A00	8.37
435 x 360	2	1SL0260A00	13.00
585 x 360	3	1SL0261A00	17.69
585 x 485	4	1SL0262A00	23.16
735 x 485	5	1SL0263A00	33.51
885 x 735	6	1SL0264A00	64.64

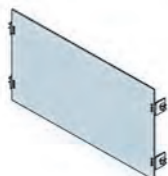
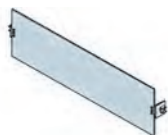
### Also available:

- Perforated Mounting Plates suitable for use with floating nuts.
- Insulated Mounting Plates.

Please consult us for availability

# Enclosures

## IP66 Gemini Weather Proof Range



### Mounting Plates

			Product Hierarchy 3100007	
Size HxW	Nominal Size	Size	Order Code	Price £
130 x 210	150	1	1SL0296A00	6.44
130 x 318	150	2	1SL0297A00	8.37
130 x 318	150	3	1SL0297A00	8.37
130 x 443	150	4	1SL0298A00	11.09
130 x 443	150	5	1SL0298A00	11.09
130 x 663	150	6	1SL0299A00	20.24
280 x 318	300	2	1SL0302A00	16.87
280 x 318	300	3	1SL0302A00	16.87
280 x 443	300	4	1SL0303A00	20.96
280 x 443	300	5	1SL0303A00	20.96
280 x 663	300	6	1SL0304A00	37.00

### Side Mounting Rails

		Product Hierarchy 3100007	
Size H	Size	Order Code	Price £
300	1	1SL0283A00	10.06
450	2	1SL0284A00	10.75
600	3	1SL0285A00	13.54
600	4	1SL0285A00	13.54
750	5	1SL0286A00	16.32
900	6	1SL0287A00	25.53

### MCB Kits

			Product Hierarchy 3100007	
Size HxW	Modules	Size	Order Code	Price £
150 x 250	12	1	1SL0307A00	11.52
150 x 375	18	2	1SL0308A00	12.83
150 x 375	18	3	1SL0308A00	12.83
150 x 500	24	4	1SL0309A00	15.97
150 x 500	24	5	1SL0309A00	15.97
150 x 750	36	6	1SL0310A00	21.09
225 x 375	2	18	1SL0313A00	17.36
225 x 375	3	18	1SL0313A00	17.36
225 x 500	4	24	1SL0314A00	21.55
225 x 500	5	24	1SL0314A00	21.55
225 x 750	6	36	1SL0315A00	28.47

# Enclosures

## IP66 Gemini Weather Proof Range



### Blanking Plates

		Product Hierarchy 3100007	
Size HxW	Size	Order Code	Price £
150 x 250	1	1SL0324A00	9.50
150 x 375	2	1SL0325A00	10.83
150 x 375	3	1SL0325A00	10.83
150 x 500	4	1SL0326A00	12.71
150 x 500	5	1SL0326A00	12.71
150 x 750	6	1SL0327A00	14.22

### Accessories

		Product Hierarchy 3100007	
Description	Size	Order Code	Price £
Key lock and handle	Fits All	1SL0340A00	9.71
Square lock	Fits All	1SL0339A00	1.35
Wall mounting brackets (4off)	Fits All	1SL0342A00	5.72

# Enclosures - IP40, IP55, IP65

## Modular Units



### IP40 Polycarbonate

No. Modules	Size W x H x D	Product Hierarchy 3100007	
		Order Code	Price
2	100 x 160 x 85	12702	3.21
4	140 x 220 x 110	12704	6.31
8	205 x 220 x 110	12708	10.30
12	275 x 220 x 110	12712	11.37
24	275 x 370 x 110	12714	26.01
36	275 x 570 x 110	12716	38.73
48	380 x 570 x 120	12718	45.61

### IP55 Thermoplastic

No. Modules	Size W x H x D	Product Hierarchy 3100007	
		Order Code	Price
4	125 x 180 x 105	12644	9.11
6	160 x 180 x 105	12646	12.58
10	230 x 180 x 105	12650	19.52
20	230 x 320 x 135	12652	33.51
10 - special	250 x 320 x 135	12654	28.63

### IP65 Polycarbonate Solid Door

No. Modules	Size W x H x D	Product Hierarchy 3100007	
		Order Code	Price
4	140 x 220 x 140	12724	13.52
8	205 x 220 x 140	12728	15.34
12	275 x 220 x 140	12732	19.52
24	380 x 220 x 140	12733	22.30
36	275 x 370 x 140	12734	33.52
48	275 x 570 x 140	12736	49.78
54	380 x 570 x 140	12738	57.44

### IP65 Polycarbonate Clear Door

No. Modules	Size W x H x D	Product Hierarchy 3100007	
		Order Code	Price
4	140 x 220 x 140	12744	11.31
8	205 x 220 x 140	12748	14.63
12	275 x 220 x 140	12752	19.52
18	380 x 220 x 140	12753	22.30
24	275 x 370 x 140	12754	33.51
36	275 x 570 x 140	12756	49.78
54	380 x 570 x 140	12758	57.41

### IP65 Polycarbonate Multiple Doors

No. Modules	Size W x H x D	Product Hierarchy 3100007	
		Order Code	Price
2/4	100 x 160 x 100	12742	8.82
8	205 x 220 x 140	12743	14.27
12	275 x 220 x 140	12745	19.52
24	275 x 370 x 140	12746	33.52
36	275 x 570 x 140	12747	49.78



# Enclosures - IP40, IP55, IP65

## Modular Units Accessories



### Recommended Terminals & Terminal Holders Quantities

For Switchboard type	Product Hierarchy 3100007			
	Terminal Holders		Terminals	
	Order Code	Price £	Order Code	Price £
12704	12538 (x2)	3.53	12531 (x2)	1.37
12708	12539 (x2)	3.96	12531 (x2)	1.37
12712	12540 (x1)	4.59	12531 (x1)	1.37
			12532 (x1)	2.12
12714	12540 (x2)	4.59	12533 (x2)	2.82
12716	12540 (x2)	4.59	12534 (x2)	3.15
12718	12543 (x2)	8.85	12535 (x2)	3.36
12724 - 12744	12538 (x2)	3.53	12531 (x2)	1.37
12728 - 12748	12539 (x2)	3.96	12531 (x2)	1.37
12732 - 12752	12540 (x1)	4.59	12531 (x1)	1.37
			12532 (x1)	2.12
12733 - 12753	12543 (x1)	8.85	12531 (x1)	1.37
			12535 (x1)	3.36
12734 - 12754	12450 (x2)	4.60	12533 (x2)	2.82
12735 - 12755	12543 (x2)	8.85	12534 (x2)	3.15
12736 - 12756	12540 (x2)	4.59	12534 (x2)	3.15
12738 - 12758	12543 (x2)	8.85	12535 (x2)	3.36
12743	12539 (x2)	3.96	12531 (x2)	1.37
12745	12540 (x1)	4.59	12531 (x1)	1.37
			12532 (x1)	2.12
12746	12540 (x2)	4.59	12533 (x2)	2.82
12747	12540 (x2)	4.59	12534 (x2)	3.15

(x) Quantity Required

### Terminal Blocks

For Switchboard type	Neutral terminals	Earth terminals	Product Hierarchy 3100007	
			Order Code	Price £
12 644 - 12 684	2x4.5 + 3x5.6	2x4.5 + 3x5.6	12880	5.93
12 646 - 12 686	6x4.5 + 5x5.6	2x4.5 + 3x5.6	12882	6.34
12 650 - 12 690	6x4.5 + 5x5.6	2x4.5 + 3x5.6	12884	10.98
12 652 - 12 692 - 12 654	2 (6x4.5 + 5x5.6)	2 (2x4.5 + 3x5.6)	12886	5.55

### Accessories

Description	Product Hierarchy 3100007	
	Order Code	Price £
Wall Mounting Brackets for Box	12858	5.41

## Enclosures - Polycarbonate

### IP65 Switchboards and IP40 & IP55 Panel Fronts



#### IP40 Front Panel

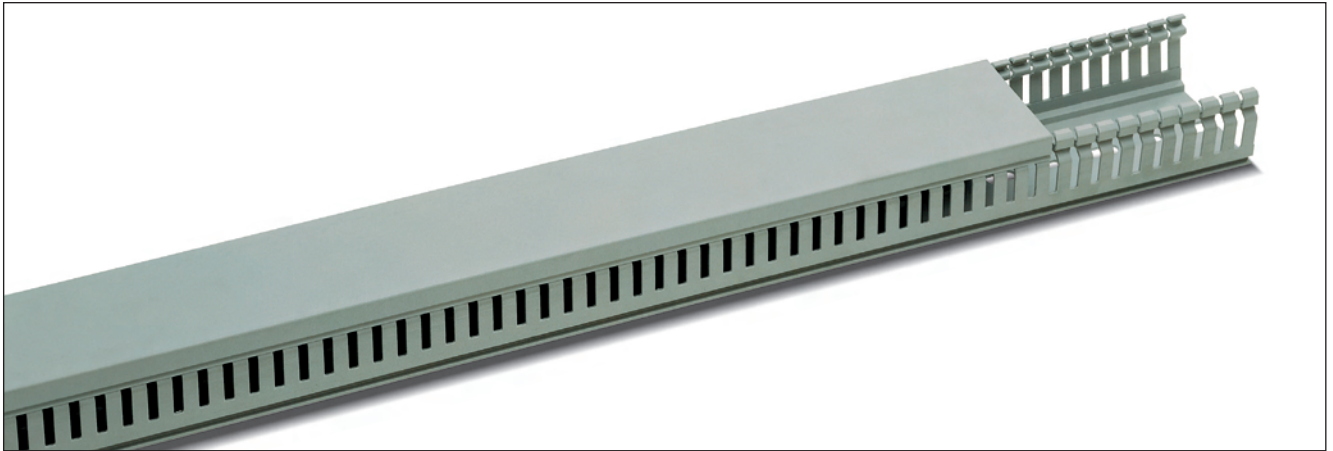
No. Modules	Size HxWxD	Product Hierarchy 3100007	
		Order Code	Price
2	9012362	12362	4.74
3	9012362	12363	6.04
4	9012362	12364	7.35



#### IP55 Front Panel

No. Modules	Size HxWxD	Product Hierarchy 3100007	
		Order Code	Price
4	180 x 125 x 34	12658	12.05
6	180 x 160 x 34	12659	14.33
10	180 x 230 x 34	12660	17.60

## Enclosures - Slotted Trunking



Size WxH	Pack Quantity	Product Hierarchy 3300001		Product Hierarchy 3300001	
		4/6mm Slots Order Code	Price	8/12mm Slots Order Code	Price
15 x 17	23	05119	1.11	05019	1.11
25 x 30	29	05133	2.63	05033	2.44
40 x 30	20	05135	3.65	05035	3.41
60 x 30	26	05137	4.95	05037	4.85
25 x 40	24	05143	3.48	05043	3.42
40 x 40	15	05145	4.22	05045	4.22
60 x 40	20	05147	5.24	05047	5.59
80 x 40	16	05149	5.24	05049	6.41
100 x 40	12	05151	7.95	05051	7.90
120 x 40	10	05153	10.72	05053	10.06
25 x 60	17	05163	3.11	05063	4.06
40 x 60	11	05165	5.03	05065	5.35
60 x 60	16	05167	6.84	05067	6.75
80 x 60	12	05169	7.58	05069	8.09
100 x 60	10	05171	9.34	05071	9.90
120 x 60	7	05173	11.52	05073	12.07
25 x 80	14	05183	5.00	05083	5.35
40 x 80	18	05185	6.36	05085	6.18
60 x 80	12	05187	8.39	05087	8.31
80 x 80	8	05189	9.94	05089	9.79
100 x 80	8	05191	11.29	05091	12.49
120 x 80	6	05193	13.03	05093	13.80
25 x 100	10	05194	7.05	05094	6.91
40 x 100	12	05195	8.93	05095	9.46
60 x 100	10	05196	10.65	05096	10.75
80 x 100	8	05197	11.18	05097	10.75
100 x 100	4	05198	12.92	05098	14.35
150 x 100	4	05199	19.87	05099	18.60







Prices are for 2 metre lengths, and sold in pack quantities

# Enclosures















## IP Ratings

IP      

### Protection against solid objects

<b>0</b>	No protection	
<b>1</b>	Protected against solid objects up to 50mm eg. accidental touch by hands	
<b>2</b>	Protected against solid objects up to 12mm eg. fingers	
<b>3</b>	Protected against solid objects over 2.5mm (tools + wires)	
<b>4</b>	Protected against solid objects up to 1mm (tools wires + small wires)	
<b>5</b>	Protected against dust (no harmful deposit)	
<b>6</b>	Totally protected against dust	

### Protection against liquids

<b>0</b>	No protection	
<b>1</b>	Protected against vertically falling drops of water eg. condensation	
<b>2</b>	Protected against direct sprays of water up to 15° from vertical	
<b>3</b>	Protected against direct sprays of water up to 60° from vertical	 
<b>4</b>	Protected against sprays of water from all directions	 
<b>5</b>	Protected against low pressure jets of water from all directions	 
<b>6</b>	Protected against strong jets of water eg. for use on ship decks	 
<b>7</b>	Protected against the effects of immersion between 15cm and 1m.	  15 cm Min. 1 m
<b>8</b>	Protected against long periods of immersion under pressure	  ... m

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# Terms and Conditions

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## 1. GENERAL

- 1.1. Whenever ABB Limited ("ABB") has referred to Orgalime S 2000 in a quotation or other type of offer or in an order acknowledgement, Orgalime S 2000 and this Addendum shall apply to the resulting contract between ABB and the Purchaser. If the Purchaser refers to other terms and conditions in the Purchaser's previous or subsequent communications with ABB, such other terms and conditions shall apply only to the extent ABB expressly agrees thereto in writing.
- 1.2. The Purchaser represents that it has access to the Orgalime S 2000 terms and conditions.
- 1.3. Should ABB accept other terms and conditions than the ones contained in Orgalime S 2000 and this Addendum, ABB shall not be bound by the price, delivery terms, warranties and other terms quoted by ABB, unless the ABB quotation expressly refers to those other terms and conditions.
- 1.4. In the event of any contradictions or discrepancies between this Addendum and Orgalime S 2000, this Addendum shall prevail.

## 2. DEFINITIONS

In Orgalime S 2000 and this Addendum,

- (a) "Orgalime S 2000" shall mean Orgalime's General Conditions for the Supply of Mechanical, Electrical and Electronic Products, August 2000 edition or the latest edition published thereafter;
- (b) "Product" shall include services to be provided by ABB in relation to the Product;
- (c) "Purchaser" shall mean the other party to the contract; and
- (d) "Supplier" shall mean ABB.

## 3. AMENDMENTS

### 3.1. Standard Products

- 3.1.1. The Product shall be supplied in its standard version together with ABB's relevant standard documentation and instruction manuals as appropriate. Alternative finishes, colours and special packing may be supplied at extra charge, as may additional documentation.
- 3.1.2. The Product is not warranted to be fit for any particular purpose, unless and to the extent such particular purpose has been expressly specified and warranted by ABB in writing.

### 3.2. Payment Terms

- 3.2.1. Payment shall be made by the Purchaser no later than thirty (30) days from the date the relevant invoice was issued, unless otherwise stated on the invoice. Should part of an invoice be disputed by the Purchaser, the Purchaser shall nevertheless pay the undisputed amount on the due payment date. Payment may be made via BACS.
- 3.2.2. Payment shall be made in the currency in which the purchase price was quoted by ABB.
- 3.2.3. Should
  - (a) the Purchaser's payments be overdue by more than 14 calendar days;
  - (b) proceedings be commenced to wind up the Purchaser (except for the purpose of solvent amalgamation or reconstruction);
  - (c) any composition or arrangement with the Purchaser's creditors be made; or
  - (d) the Purchaser be put under administration, or if a receiver is appointed,

ABB shall be entitled (without incurring any liability therefor) to terminate the contract by notice in writing, and thereupon to recover any loss or damage ABB has suffered as a result of such termination, except that the compensation paid towards such loss or damage shall not exceed the purchase price.

### 3.3. VAT

The purchase price is strictly net and exclusive of VAT and similar.

### 3.4. Retention of Title

- 3.4.1. The Product shall remain the property of the Supplier until paid for in full.
- 3.4.2. Until title in the Product has passed to the Purchaser, the Purchaser shall keep the Product and any part thereof in the Purchaser's possession clearly marked or otherwise identified as being ABB's, and store them separately from the Purchaser's own plant. ABB shall be entitled at any time during normal business hours to enter the Purchaser's premises in order to inspect the Product and ensure that it is so marked or clearly identified.
- 3.4.3. Should the contract be terminated by ABB for any reason before title in the Product has passed to the Purchaser, ABB shall be entitled at any time during normal business hours to enter the Purchaser's premises in order to recover the Product. ABB reserves the right to dispose of any Product so recovered.

### 3.5. Export restrictions and non-authorised use

- 3.5.1. Any supply of technology under the contract shall be subject to any laws and other restrictions on the export, re-export or import of any technology licensed under the contract as may be imposed from time to time by the UK or United States Governments or their agencies. The Purchaser shall not knowingly export, re-export or import, directly or indirectly, any such technology licensed from or provided by ABB to any country for which the UK or United States Governments or any their agencies require an export licence or other Government approval at the time of such export, without first obtaining such licence or approval. The Purchaser shall require that all third parties receiving such technology from the Purchaser comply with this requirement. ABB shall assist the Purchaser in every reasonable way in the investigation and clarification of any possible export or import licence requirements and in the obtaining of such licences at the Purchaser's cost.
- 3.5.2. The performance by either of the parties of an obligation under the contract, which performance requires an export or import licence or other government approval, and any other obligation affected shall, to the extent it is necessary, automatically be suspended until such licence or approval as mentioned in sub clause 3.5.1 is given. If such licence is not granted within a reasonable time or is revoked by the appropriate authorities, ABB shall be entitled to terminate the contract, and the Purchaser shall compensate ABB for any loss or damage as a result of such termination.

# Terms and Conditions

- 3.5.3. Unless expressly agreed in writing by ABB, the Product is provided on strict condition that:
- a) the Product is solely for civil use;
  - (b) the Product is not to be supplied to any country whether directly or indirectly or for any application where such supply or application is prohibited by any law or regulation binding or effective in that country, in the United Kingdom or the country of manufacture; and
  - (c) the Product will not in any way be installed, used or applied in or in connection with the operation of any nuclear facilities such as but not limited to nuclear power plants, nuclear fuel manufacturing plants, uranium enrichment plants, spent nuclear fuel stores or research reactors.
- 3.5.4. Whenever ABB so requests, the Purchaser shall provide ABB with an end user certificate, which shall be subject to ABB's reasonable approval and signed by the Purchaser's authorised representative, confirming that the end user shall comply with subclause 3.5.3, items (a) - (c). Until such time as ABB has received such end user certificate, ABB shall be entitled to suspend the performance under the contract.
- 3.5.5. The end user certificate referred to in subclause 3.5.4 shall form part of the contract and any breach by the Purchaser or any for whom the Purchaser is liable (which shall, without limitation, include the end-user) of any of the provisions set out in subclause 3.5.3, items (a) - (c), shall be deemed a fundamental breach of contract by the Purchaser, and shall entitle ABB to terminate the contract forthwith by giving notice to the Purchaser.
- 3.5.6. In the event of such termination as is mentioned in subclause 3.5.5, the Purchaser shall compensate (without limitation) ABB for any damage and losses sustained as a result of the breach.
- 3.5.7. The Purchaser shall keep ABB, its officers, directors, employees, agents and advisers indemnified against any claims and liabilities arising out of any breach by the Purchaser or any for whom the Purchaser is liable (which shall, without limitation, include the end user) of any of the provisions set out in this sub-clause 3.5.
- 3.6. Limitation of liability
- 3.6.1. To the maximum extent permitted by applicable law, and notwithstanding anything to the contrary in the contract or otherwise, neither party shall be liable to the other for any indirect, special, incidental or consequential damages such as, but not limited to, loss of revenue, loss of business, loss of use, interruption of business, loss of operation time, costs of capital and cost in connection with interruption of operation.
- 3.6.2. To the maximum extent permitted by applicable law, ABB limits its aggregate liability under the contract for direct damage to an amount equivalent to the price.
- 3.6.3. The Purchaser acknowledges that the contents of sub clauses 3.6.1 and 3.6.2 have especially been brought to the Purchaser's attention, and that said subclauses have been duly negotiated between the parties.
- 3.7. Indemnification
- If Products are to be manufactured or any process is to be applied to Products by ABB in accordance with a specification submitted by the Purchaser, the Purchaser shall indemnify ABB against all losses, damages, costs, expenses and claims suffered or incurred by ABB in connection with infringement of any intellectual property rights of any third party resulting from ABB's use of the Purchaser's specification.
- 3.8. Limitation period
- Subject to law as regards personal injury and death, the Purchaser shall have no claim against ABB, in contract or in tort, in relation to anything performed or delivered under the Contract (including claims for defective Products, services or goods), unless ABB has been notified in writing of such claim within twenty four (24) months of delivery.
- 3.9. Exclusion of third party rights
- Pursuant to section 1(2)(a) of the contracts (Right of Third Parties) Act 1999 (the "Act"), the parties intend that no terms of the contract may be enforced by a Third Party (as the term "Third Party" is defined in the Act).
- 3.10. Governing law
- The contract shall in all respects be governed by and construed in accordance with English substantive law. The parties agree that the United Nations Convention on contracts for the International Sale of Goods shall not apply to the contract (even if the United Kingdom or any part thereof should accede to the said convention).
- 3.11. Miscellaneous
- The contract constitutes the complete and full understanding between the parties thereto with respect to the subject matter of the contract and supersedes all previous negotiations, representations, agreements, commitments and writing in respect thereof. Neither party shall be bound by any terms conditions, definitions, warranties, understandings or representations with respect to such subject matter other than as expressly provided in the contract or as duly set forth on or subsequent to the effective date thereof in writing.
- 3.12. Min Order
- £200.00 nett carriage paid, orders below £200.00 incur £50.00 surcharge.



# Contact us

## ABB Limited

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