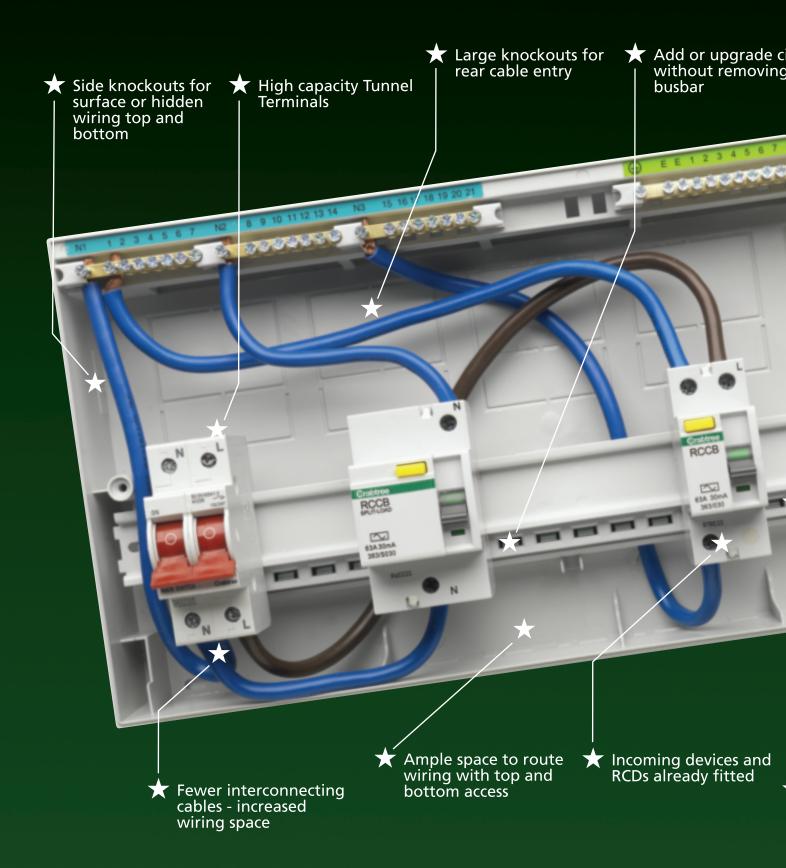




# **Erabtree**



### **ST\_RBREAKER** Consumer Units

# All in just one Box

Starbreaker is a complete range of ready to install consumer units offering a multiple choice of factory assembled configurations that will meet all the needs of 17th Edition wiring regulations installers.

Specifiers can appreciate that this quality assured and manufactured product gives an extensive choice of Starbreaker plug in 30mA RCBOs and MCB circuit protection devices utilising Siemens technology. These are all available with type 'B' or 'C' protection curves, and 7 different current ratings from 6A to 50A.

Plug in MCB & RCBOs instant guaranteed connections

ircuits



- Insulated busbar provides greater protection against accidental direct contact during maintenance and testing where live working is unavoidable No live or exposed busbar connection 'prongs'
  - Permanent factory fitted insulated shrouding
  - Consistent level of safety assured in all designs

  - Fewer screw connections to be made by hand
  - No need to cut/adjust busbars to add busbar shrouding

### Swiftly - installed

- Plug in instant connections speed up installation
- Factory guaranteed quality assured busbar connections • 25% lower risk as fewer connections are made by hand
- No need to cut busbars or adjust

### Reliability- assured

- All 17th Edition designs are available: Main Switch, High Integrity, Split Load, Dual RCD
- Units are supplied complete (Main Switch, RCDs
- busbars assembled in position) Ready to be installed by the Electrician

## Flexibility - inherent

- DIN devices Timers, Bell Transformers, Contactors & Meters can be fitted in any position - no need to cut or adjust busbars to assemble units in place
- Removable 'plug in' busbar assembly allows for onsite reconfiguration to meet any 17th edition designs (with addition of RCDs or RCBOs)

**Full DIN Rail accepts** DIN modules, Timers, Bell Transformers, Contactors & Meters in any available way

Insulated Busbar -**Greater Personal Protection** 

..... Easier..... Faster..... Safer.....



MAIN 9	WITCH UNITS			
MS Rating	Total MCB/ RCBO Ways	Main Switch	Insulated	Metal
40A	2	2	402/2B	802/2B
63A	2	2	402/26B	802/26B
100A	4	4	404/2B	804/2B
100A	7	7	407/2B	807/2B
100A	10	10	410/2B	810/2B
100A	13	13	413/2B	813/2B
100A	18	18	418/2B	818/2B

RCBOs are not recommended for use within 402/802 units.



#### SPLIT LOAD UNITS 100A SWITCH 63A 30mA RCCB MS Total Main Rating Ways Switch **RCCB** Insulated Metal 100A 4 404/2263B 804/2263B 2 2 100A 7 2 5 807/2263B 407/2263B 100A 3 4 407/2363B 807/2363B 100A 4 3 407/2463B 807/2463B 7 100A 5 2 407/2563B 807/2563B 7 100A 10 3 410/2363B 810/2363B 100A 10 4 6 410/2463B 810/2463B 100A 10 5 5 410/2563B 810/2563B 4 100A 10 6 410/2663B 810/2663B 100A 10 7 3 410/2763B 810/2763B 100A 15 5 10 415/2563B 815/2563B 100A 15 6 9 415/2663B 815/2663B 15 100A 8 7 415/2763B 815/2763B 100A 15 8 7 815/2863B 415/2863B 100A 15 9 6 415/2963B 815/2963B

Both MCBs and RCBOs may be included for final circuit positions that are not protected by resident RCCBs.

5

415/2163B

815/2163B



#### SPLIT LOAD UNITS 100A SWITCH 80A 30mA RCCB

10

100A

15

MS	Total	Main			
Rating	Ways	Switch	RCCB	Insulated	Metal
100A	7	2	5	407/2283B	807/2283B
100A	7	3	4	407/2383B	807/2383B
100A	7	4	3	407/2483B	807/2483B
100A	7	5	2	407/2583B	807/2583B
100A	10	3	7	410/2383B	810/2383B
100A	10	4	6	410/2483B	810/2483B
100A	10	5	5	410/2583B	810/2583B
100A	10	6	4	410/2683B	810/2683B
100A	10	7	3	410/2783B	810/2783B
100A	12	6	6	412/2683B	-
100A	15	5	10	415/2583B	815/2583B
100A	15	6	9	415/2683B	815/2683B
100A	15	7	8	415/2783B	815/2783B
100A	15	8	7	415/2883B	815/2883B
100A	15	9	6	415/2983B	815/2983B
100A	15	10	5	415/2183B	815/2183B

Both MCBs and RCBOs may be included for final circuit positions that are not protected by resident RCCBs.



Grabtine streetment	
413/2837636B	

	118	
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HIGH INTEGRITY DUAL RCD UNITS							
MS	Total	Main	RCCB 1 63A	RCCB 2 63A	·		
Rating	Ways	Switch	30mA	30mA	Insulated	Metal	
100A	8	2	3	3	408/226363B	808/226363B	
100A	13	2	6	5	413/226665B	813/226665B	
100A	13	2	7	4	413/226764B	813/226764B	
100A	13	2	8	3	413/226863B	813/226863B	
100A	13	3	5	5	413/236565B	813/236565B	
100A	13	3	6	4	413/236664B	813/236664B	
100A	13	3	7	3	413/236763B	813/236763B	
100A	13	4	5	4	413/246564B	813/246564B	
100A	13	4	6	3	413/246663B	813/246663B	
100A	13	5	4	4	413/256464B	813/256464B	
100A	13	5	5	3	413/256563B	813/256563B	
100A	13	6	4	3	413/266463B	813/266463B	

MS	Total	Main	RCCB 1 80A	RCCB 2 80A	
Rating	Ways	Switch	30mA	30mA	Insulated
100A	9	1	4	4	409/218484B
100A	9	2	4	3	409/228483B
100A	13	3	5	5	413/238585B

Both MCBs and RCBOs may be included for final circuit positions that are not protected by resident RCCBs.

DUAL	RCD S	PLIT I	1			
MS	Total MCB	Main	RCCB 1 63A	RCCB 2 63A		
Rating	Ways	Switch	30mA	30mA	Insulated	Metal
100A	13	0	7	6	413/2637636B	813/2637636B
100A	13	0	8	5	413/2638635B	813/2638635B
100A	13	0	9	4	413/2639634B	813/2639634B

	Total		RCCB 1	RCCB 2		
MS	MCB	Main	80A	63A		
Rating	Ways	Switch	30mA	30mA	Insulated	Metal
100A	8	0	4	4	408/2834634B	808/2834634B
100A	13	0	7	6	413/2837636B	813/2837636B
100A	13	0	8	5	413/2838635B	813/2838635B
100A	13	0	9	4	413/2839634B	813/2839634B



#### **RCD INCOMER UNITS**

RCCB	Total MCB				
Rating	Ways	RCCB	Insulated	Metal	
40A 30mA	2	2	402/343B	802/343B	
63A 30mA	2	2	402/363B	802/363B	_
63A 30mA	4	4	404/363B	-	
80A 30mA	4	4	404/383B	804/383B	
80A 30mA	7	7	407/383B	807/383B	_
100A 30mA	7	7	407/313B	-	
80A 30mA	10	10	410/383B	810/383B	
100A 30mA	10	10	410/313B	810/313B	
80A 30mA	13	13	413/383B	813/383B	
100A 30mA	13	13	413/313B	813/313B	
80A 30mA	18	18	418/383B	818/383B	_
100A 30mA	18	18	418/313B	818/313B	_



#### **DUAL TARIFF UNITS**

		Main Switch		
Total MCB/	100A	100A		
RCBO Ways	Tariff 1	Tariff 2	Insulated	Metal
5	3	2	405/232B	805/232B
8	3	5	408/232B	808/232B
8	4	4	408/242B	808/242B
8	5	3	408/252B	808/252B
8	6	2	408/262B	808/262B
11	4	7	411/242B	811/242B
11	5	6	411/252B	811/252B
11	6	5	411/262B	811/262B
11	7	4	411/272B	811/272B
11	8	3	411/282B	811/282B
16	6	10	416/262B	816/262B
16	7	9	416/272B	816/272B
16	8	8	416/282B	816/282B
16	9	7	416/292B	816/292B
16	10	6	416/212B	816/212B
16	11	5	416/2112B	816/2112B



#### **MULTI TARIFF UNITS**

Total MCB/ RCBO	Main Switch 100A	Main Switch 100A 2	Main Switch 100A		
Ways	Tariff 1	Tariff	Tariff 3	Insulated	Metal
9	4	1	4	409/242124B	809/242124B
14	8	1	5	414/282125B	814/282125B
14	7	1	6	414/272126B	814/272126B

#### SPLIT LOAD DUAL TARIFF UNITS

MS Rating	Total Ways	Main Switch	RCCB 63A 30mA	Main Switch 100A Tariff 2	Insulated	Metal
100A	8	2	3	3	408/22623B	808/22623B
100A	13	5	2	6	413/25626B	813/25626B
100A	13	3	6	4	413/23624B	813/23624B

Both MCBs and RCBOs may be included for final circuit positions that are not protected by resident RCCBs.

100A	13	3	6	4	413/23824B	813/23824B
MS Rating	RCBO Ways	Main Switch	RCCB 80A 30mA	100A Tariff 2	Insulated	Metal
	MCB/			Switch		
	Total			Main		

Both MCBs and RCBOs may be included for final circuit positions that are not protected by resident RCCBs.

For components selection & dimensions see  ${\it Starbreaker}$  Components page 140.



#### **ASSEMBLED SPINE BACKPLATES**

#### MAIN SWITCH

	Total MCB/		
MS Rating	g RCBO Ways	Main Switch	LIST No
100A	13	13	H913/2WB
100A	18	18	H918/2WB

#### SPLIT LOAD 100A SWITCH 63A 30mA RCCB

MS Rating	Total Ways	Main Switch	RCCB	LIST No
100A	10	4	6	H910/2463WB
100A	10	5	5	H910/2563WB
100A	10	6	4	H910/2663WB

MCBs and RCBOs may be included for final circuit positions not protected by resident RCCBs.

#### SPLIT LOAD 100A SWITCH 80A 30mA RCCB

MS Rating	g Total Ways	Main Switch	RCCB	LIST No
100A	10	4	6	H910/2483WB
100A	10	5	5	H910/2583WB

MCBs and RCBOs may be included for final circuit positions not protected by resident RCCBs. Starbreaker spine backplates (H) accept both MCBs and single module RCBOs.



#### **ASSEMBLED SPINE BACKPLATES**

#### **DUAL RCD SPLIT LOAD**

MS Rating	Total Ways	Main Switch	RCCB 1 80A 30mA	RCCB 2 63A 30mA	LIST No
100A	8	0	4	4	908/2834634WB



#### TWO BANK SPLIT LOAD METAL UNITS

MS Rating	Total Ways	Main Switch	RCCB 80A 30mA	LIST No
100A	20	10	10	820/283B
100A	26	13	13	826/283B
100A	36	18	18	836/283B

Both MCBs and RCBOs may be included for final circuit positions that are not protected by resident RCCBs.

#### TWO BANK DUAL RCD SPLIT LOAD METAL UNITS

MS Rating	Total MCB/ RCBO Ways	Main Switch	RCCB 1 63A 30mA	RCCB 2 80A 30mA	LIST No
100A	17	0	7	10	817/26383B
100A	23	0	10	13	823/26383B
100A	33	0	15	18	833/26383B

Flush metal units available upon request.



#### MINIATURE CIRCUIT BREAKERS

		LIST NO	
RATING	MODULES	Type B	Type C
6A	1	61/B06	61/C06
10A	1	61/B10	61/C10
16A	1	61/B16	61/C16
20A	1	61/B20	61/C20
32A	1	61/B32	61/C32
40A	1	61/B40	61/C40
50A	1	61/B50	61/C50

- BSEN 60898 6kA 240V 50Hz.
- ullet Type B classification (3–5In). Type C classification (5–10In).
- 25mm<sup>2</sup> terminal capacity.

### RESIDUAL CURRENT CIRCUIT BREAKER WITH OVERCURRENT PROTECTION (RCBOs)

		LIST No	
RATING	MODULES	30mA Type B	30mA Type C
6A	1	61/B10630	61/C10630
10A	1	61/B11030	61/C11030
16A	1	61/B11630	61/C11630
20A	1	61/B12030	61/C12030
32A	1	61/B13230	61/C13230
40A	1	61/B14030	61/C14030
50A	1	61/B15030	61/C15030

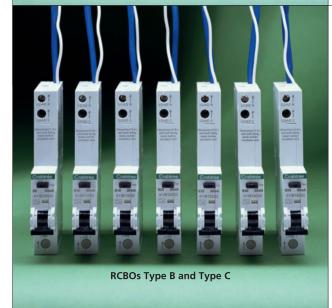
- EN 61009-1, IEC61009-1.
- 230 (240) V AC 50/60 Hz.
- 16mm² terminal capacity.

#### CAUTION

These devices are electronic units and should be disconnected from the supply during insulation and earth fault loop impedance testing.

#### **ACCESSORIES**

443
CSB1
CSBC
MCBLD





#### **BELL TRANSFORMER**

DESCRIPTION	MODULES	LIST No
12V bell transformer	2	303/B12
6V bell transformer	1	301/B6
8V bell transformer	1	301/B8
12V bell transformer	1	301/B12

• With overload protection.



#### **DIGITAL TIMESWITCHES**

DESCRIPTION	MOD	LIST No
1 Channel Digital Timeswitch	1	301/TD1
1 Channel Digital Timeswitch	2	302/TD1
2 Channel Digital Timeswitch	2	302/TD2
1 Channel Digital Timeswitch + data key facility	2	402/TD1
2 Channel Digital Timeswitch + data key facility	2	402/TD2
1 Channel Digital Astro Timeswitch + data key facility	y 2	502/TD1
2 Channel Digital Astro Timeswitch + data key facility	y 2	502/TD2
1-10 min Staircase Timeswitch	1	301/S10
Software		USB/S
Data Key		4/5DK
Data Key		6DK



#### **ANALOGUE TIMERS**

DESCRIPTION	MODULES	LIST No
24hr Analogue Quartz	1	301/TQ24
24hr Analogue Quartz	3	303/TQ24
7 Day Analogue Quartz	3	303/TQ7
24hr Analogue Synchronous	1	301/TS11
24hr Analogue Synchronous	3	303/TS24



#### SILENT OPERATION INSTALLATION CONTACTORS

Thermal

	Rating per Pole	Pole Cont	figuration	
TYPE	AC1(A)	N/O	N/C	LIST No
CIK22	20	2 1 0	0 1 2	1 Mod - CIK22-20 CIK22-11 CIK22-02
CIK24	24	4 3 2 0	0 1 2 4	2 Mod = CIK24-40 CIK24-31 CIK24-22 CIK24-04
CIK40	40	4 3 2 0	0 1 2 4	3 Mod CIK40-40 CIK40-31 CIK40-22 CIK40-04
CIK63	63	4 3 2	0 1 2	3 Mod - CIK63-40 CIK63-31 CIK63-22
Auxiliary Contacts	230V 400V AC15			
(40A & 63A only)	6 4	1 2	1 0	CHHSLA11 CHHSLA20

 $_{\Omega}$ 

#### CIRCUIT PROTECTION REQUIREMENTS WITHIN ELECTRICAL INSTALLATIONS.

#### **SOCKET CIRCUITS 411.3.3**

RCDs are now required to provide additional protection. To be recognised as providing additional protection the RCD must be rated at 30mA or less and operate within 40ms when tested at 5x rated residual operating current.

- RCDs are now required for all general use socket outlets rated up to 20A. Two exceptions are allowed for;
- 1. Socket outlets used under supervision of skilled or instructed persons.
- 2. A socket outlet suitably identified for connection of a particular item of equipment.

Additional protection must be provided in the event of failure of the provision of basic protection and/or the provision of fault protection or carelessness by users of the installation. **Protection by 30mA RCD will be required for;** 

- Upstairs ring circuit
- Downstairs ring circuit
- Kitchen ring circuit
- Cooker control unit c/w socket outlet

#### CABLES 522.6.101 522.6.102 522.6.103 Regulation 522.6.101

A cable concealed in a wall or partition at less than 50mm from the surface shall;

- Incorporate an earthed metallic covering suitable for service as the circuit CPC - or
- 2. Be enclosed in earthed conduit or
- 3. Be enclosed in trunking or ducting or
- **4.** Be mechanically protected against damage from penetration by nails or screws and the like *or*
- 5. Be installed in the prescribed zones.
- 6. Form part of a SELV or PELV circuit.

**Regulation 522.6.102** Where 522.6.101 applies and the installation is **not intended to be under the supervision of skilled or instructed persons,** cables installed in accordance with 522.6.101(5) but not having mechanical protection of 1,2,3 or 4 shall be provided with additional protection by means of a 30mA RCD.

In the majority of domestic situations cables installed beneath a plaster surface within partition walls without mechanical protection will require additional protection by **30mA RCD regardless** of their routing.

- Upstairs lighting
- Immercian heater
- Immersion heaterBurglar alarm
- Downstairs lighting
- Smoke alarm

#### **Bathrooms**

- Section 7 Special installations or Locations.
- Section 701 Locations containing a bath or shower.
- Zone 3 has been removed.
- Suitable equipment can be within 600mm of a bath, excluding 13A sockets to BS1363 which must be 3m from the edge of a bath or shower.
- Additional protection shall be provided by the use of one or more residual current device with a rated operating current not exceeding 30mA (701.411.3.3).
- Supplementary bonding is not required as long as final circuits of this location comply with requirements for automatic disconnection (411.3.2) and all extraneous conductive parts are effectively connected to the protective equipotential bonding (411.3.1.2).

Additional protection must be provided by one or more 30mA RCDs.

- shower circuit
- lighting circuit
- Heating circuit
- Ventilation circuit

#### Chapter 31

- 314.1 Requires that; Every installation shall be divided into circuits, as necessary, to:
- ${f i.}$  Avoid danger and minimise inconvenience in the event of a fault
- ii. Facilitate safe inspection, testing and maintenance
- **iii.** Take account of danger that may arise from the failure of a single circuit such as a lighting circuit
- **iv.** Reduce the possibility of unwanted tripping of residual current devices (RCDs) due to excessive protective conductor currents produced by equipment in normal operation.

British Standards and IEE regulations are subject to change and amendment. This guide to Crabtree consumer units is not a substitute for the regulations which should always be used for all types of electrical installation design, and installation work.

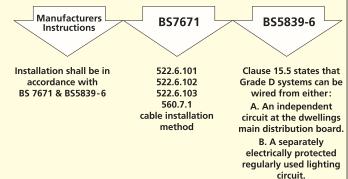
### MAINS SUPPLIES FOR SMOKE ALARMS WITHIN DOMESTIC SETTINGS

**Clause 7.1 of BS 5839-6 defines a Grade D system** as: "A system of one or more mains-powered smoke alarms, each with an integral standby supply (The system may in addition, incorporate one or more mains-powered heat alarms each with an integral standby supply).

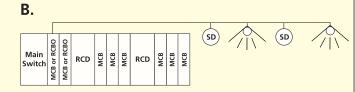
The 17th Edition of the wiring regulations do not cover every item of Electrical Equipment likely to be installed. They do not specifically mention Smoke Alarms. However:

**CHAPTER 13 REGULATION 134.1.1** states that electrical equipment shall be installed in accordance with the instructions of the manufacturer of the equipment.

**CHAPTER 51 REGULATION 510.3** states that every item of electrical equipment shall be selected and erected so as to allow compliance with the regulations stated in this chapter and the relevant regulations in other parts of BS7671 and shall take account of manufacturers instructions.





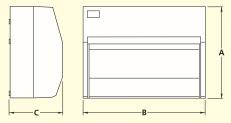


Elements of Electrical Protection will include short circuit, overcurrent and may also include additional protection by a residual current device (30mA) for certain installation methods covered by BS7671 (522.6.102) & (522.6.103)

IF ADDITIONAL PROTECTION IS REQUIRED BY BS7671 THE NEED FOR SEPARATE ELECTRICAL PROTECTION CANNOT BE MET BY DUAL RCD CONSUMER UNIT ARRANGEMENTS WHERE SINGLE RESIDUAL CURRENT DEVICES PROTECT GROUPS OF CIRCUITS.

#### **DIMENSIONS**

#### **INSULATED ENCLOSURES**



#### STARBREAKER SIZE 4 ENCLOSURE (404/0A)

DIMENSIONS A =160mm B =117mm C =102mm 402/2B 402/363B

402/26B 402/343B

#### STARBREAKER SIZE 6 ENCLOSURE (406/0A)

DIMENSIONS A =230mm B =190mm C =120mm

STARBREAKER SIZE 12 ENCLOSURE (412/0A)

DIMENSIONS A =230mm B =294mm C =120mm

404/2B 404/363B

404/383B

#### STARBREAKER SIZE 9 ENCLOSURE (409/0A)

DIMENSIONS A =230mm B =243mm C =120mm 404/2263B 407/313B

407/313B 405/232B 407/383B 407/2B 407/2263B 407/2283B 407/2363B 407/2563B 410/2B 407/2583B 410/313B 408/232B 410/383B

416/282B

416/292B

418/313B

418/383B

810/383B

418/2B

407/2383B 408/242B 407/2463B 408/252B 407/2483B 408/262B

#### STARBREAKER SIZE 15 ENCLOSURE (415/0A)

DIMENSIONS A =230mm B =344mm C =120mm 408/22623B 410/2563B 411/282B 408/226363B 410/2583B 413/2B 408/2834634B 410/2663B 413/313B 413/383B 409/218484B 410/2683B 409/228483B 410/2763B 409/242124B 410/2783B 411/242B 410/2363B 410/2383B 411/252B

411/262B

411/272B

#### STARBREAKER SIZE 20 ENCLOSURE (420/0A)

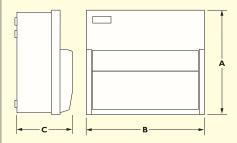
DIMENSIONS A =230mm B =439mm C =120mm

412/2683B	413/246564B	413/2838635B	415/2763B
413/226665B	413/246663B	413/2839634B	415/2783B
413/226764B	413/25626B	414/272126B	415/2863B
413/226863B	413/256464B	414/282125B	415/2883B
413/23624B	413/256563B	415/2163B	415/2963B
413/236565B	413/2637636B	415/2183B	415/2983B
413/236664B	413/2638635B	415/2563B	416/2112B
413/236763B	413/2639634B	415/2583B	416/212B
413/23824B	413/266463B	415/2663B	416/262B
413/238585B	413/2837636B	415/2683B	416/272B

#### **METAL ENCLOSURES**

410/2463B

410/2483B



#### STARBREAKER SIZE 4 ENCLOSURE (804/0A)

DIMENSIONS A =185mm B =130mm C =97mm

802/26B 802/343B 802/2B 802/363B

#### STARBREAKER SIZE 6 ENCLOSURE (806/0A)

DIMENSIONS A =261mm B =188mm C =122mm

804/2B 804/383B

#### STARBREAKER SIZE 9 ENCLOSURE (809/0A)

DIMENSIONS A =261mm B =242mm C =122mm

804/2263B 807/2B 805/232B 807/383B

#### STARBREAKER SIZE 12 ENCLOSURE (812/0A)

DIMENSIONS A =261mm B =292mm C =122mm 807/2263B 807/2563B 810/2B 807/2283B 807/2583B 810/313B

807/2363B 808/232B 807/2383B 808/242B 807/2463B 808/252B 807/2483B 808/262B

#### STARBREAKER SIZE 15 ENCLOSURE (815/0A)

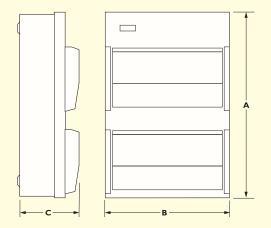
DIMENSIONS A =261mm B =343mm C =122mm 808/22623B 810/2683B 808/226363B 810/2763B 808/2834634B 810/2783B 809/242124B 811/242B 810/2363B 811/252B 810/2383B 811/262B 810/2463B 811/272B 810/2483B 811/282B 810/2563B 813/2B 810/2583B 813/313B 810/2663B 813/383B

#### STARBREAKER SIZE 20 ENCLOSURE (820/0A)

DIMENSIONS A =261mm B =438mm C =122mm

813/226764B	813/256563B	815/2183B	816/2112B
813/226863B	813/2637636B	815/2563B	816/212B
813/23624B	813/2638635B	815/2583B	816/262B
813/236565B	813/2639634B	815/2663B	816/272B
813/236664B	813/266463B	815/2683B	816/282B
813/236763B	813/2837636B	815/2763B	816/292B
813/23824B	813/2838635B	815/2783B	818/2B
813/246564B	813/2839634B	815/2863B	818/313B
813/246663B	814/272126B	815/2883B	818/383B
813/25626B	814/282125B	815/2963B	
813/256/6/JR	815/2163R	815/2083R	

#### **TWO BANK UNITS**



#### STARBREAKER SIZE 24 ENCLOSURE (824/2A)

DIMENSIONS A =506mm B =295mm C =121mm

817/26383B 820/283B

#### STARBREAKER SIZE 30 ENCLOSURE (830/2A)

DIMENSIONS A =506mm B =345mm C =121mm

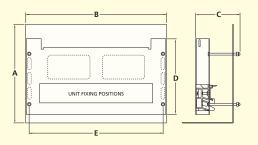
823/26383B 826/283B

#### STARBREAKER SIZE 40 ENCLOSURE (840/2A)

DIMENSIONS A =506mm B =440mm C =121mm

833/26383B 836/283B

#### SPINE BACKPLATE ASSEMBLIES (White PVC Cover)



#### STARBREAKER 15 MODULE SPINE BACKPLATE UNIT (824/2A)

DIMENSIONS A =235mm B =335mm C =106mm D =180mm E =319.5mm

H910/2563WB H913/2WB 908/2834634WB

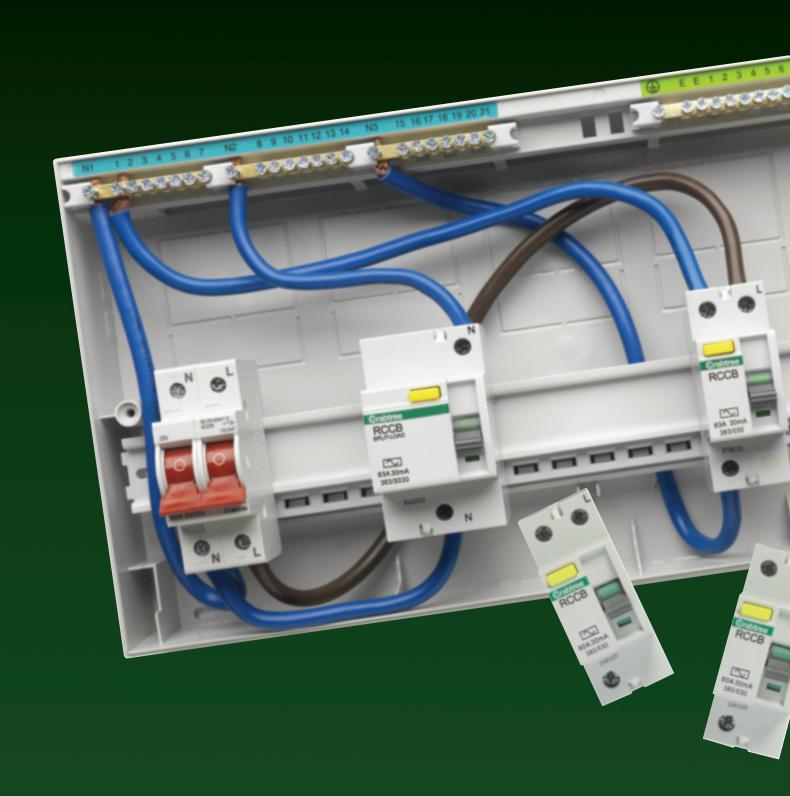
H910/2463WB H910/2583WB H910/2483WB H910/2663WB

#### STARBREAKER 20 MODULE SPINE BACKPLATE UNIT (824/2A)

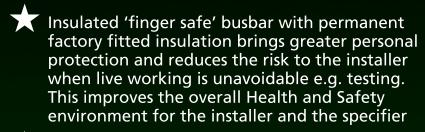
DIMENSIONS A =235mm B =448mm C =106mm D =180mm E =435mm H918/2WB

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## 10 good reasons to specify . . .



### ST RBREAKER



Quick fit plug in devices will reduce the overall install time and will save time for the installer and save money. Ultimately Invoices are reduced reflecting these savings for the end user/specifier

Plug in connection devices and busbar provides an instant guaranteed factory standard connection. 25% fewer screw terminal connections to make, less chance of an error or a loose/faulty connection

Low maintenance and instant upgrades - replacing a protective device can be done without removing the busbar, all existing connections are undisturbed

The plug in busbar was introduced in 1992, the reliability of this connection has been proved over time with an estimated 10 million plug in connections that have been made over the past 20 years

The innovative plug in busbar utilises plated contacts to assure superior electro conductivity and offer additional corrosion resistance

DIN rail mounted accessories can be fitted instantly into any unused ways - no impact from the busbar, all existing connections remain in place and are undisturbed

Quality assurance is maintained within the plug in busbar that is manufactured under ISO 9001 quality assured conditions, offering a guaranteed instant connection every time

Fixed Positive location ensures the devices don't move along the DIN rail once they are position. They also have an additional DIN rail clip that gives added assurance that the devices are completely locked in position

A product from a premium reputable brand. Since its formation in 1919, Crabtree have been acknowledged as one of Britain's leading manufacturers of wiring accessories and circuit protection equipment. Crabtree's diverse product range is renowned for outstanding quality and excellent value for money

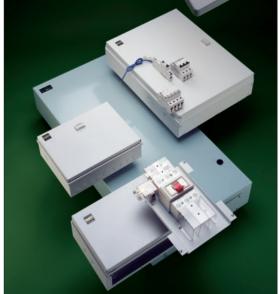


# Complete power and control across the Range

Crabtree's diverse product range is renowned for it's outstanding quality and excellent value for money.







#### **POLESTAR COMPACT**

A range of compact SPN and TPN Boards, full range of accessories and metering options.

#### **FACTORY BUILT ASSEMBLIES**

Made to exacting standards, Crabtree design, engineer and build distribution equipment, from custom MCB boards to modular switchboards.

#### **BUSBAR SYSTEMS**

BD busbar, providing safe power for industrial applications and to feed the illustrated CD-K lighting busbar.



#### **POWERSTAR**

2-18 way panelboards with busbar ratings of 250A, 400A & 630A. Single pole and 3 pole 25kA & 36kA MCCBs.



A fully design co-ordinated range, offering consistent styling and inherent safety features across a broad range of applications.

The design versatility of a modular switch whilst incorporating Capital styling and safety features.

A range of wiring accessories which allow the installer to meet the requirements of Part M of the electrical

In tough conditions this sturdily built range, is ideal for use in industry, commerce and the home.

Water and dust protected to IP56, Weatherseal is ideal for all environments, retaining their IP rating when in use with standard moulded on 13A plug.

PVC modular trunking

mounted at either Dado or Skirting level, available in two different sizes and 5 different profiles.

Power Track Underfloor System consists of a series of fully enclosed single phase busbar module units.

The comprehensive fast-fit floor box provides a wide choice. Units can be supplied fitted with accessories pre-wired to customer's requirements.





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