

# CRABTREE MINIATURE RCBOs

A range of Starbreaker plug in, MCB sized RCBOs for use in domestic household premises and similar installations.

Starbreaker miniature RCBOs bring higher levels of safety to an electrical installation and its users because they include switched neutral as standard and bring cost savings by reducing installation and testing times.



ACTUAL SIZE

## **Safer installations means safer homes**

Starbreaker Miniature RCBOs with switched neutral built in as standard will fully isolate a faulty or damaged circuit by disconnecting live and neutral conductors.

Using Starbreaker Miniature RCBOs will guarantee that healthy circuits remain in service and that only a faulty circuit is switched off. This avoids danger and prevents inconvenience in the event of a fault (as required by regulation 314.1)\*.

Miniature RCBOs take up less space in the consumer unit and so provide more wiring space for the installer, making the installation process easier and quicker.

Starbreaker RCBOs go one step further, they have switched neutral built in as standard, live and neutral conductors do not have to be disconnected for insulation resistance testing. This saves time and money, particularly for responsible landlords who regularly test installations during occupancy voids.

\* BS 7671 IET Wiring Regulations

# Crabtree Starbreaker miniature RCBOs & circuit breakers



MINIATURE RCBO (MCB sized 1 module with switched neutral)

B CURVE	C CURVE	CURRENT RATING	RCD RATING	POLES	MODULES
61/BM0630	61/CM0630	6A	30mA	2	1
61/BM1030	61/CM1030	10A	30mA	2	1
61/BM1630	61/CM1630	16A	30mA	2	1
61/BM2030	61/CM2030	20A	30mA	2	1
61/BM2530	-	25A	30mA	2	1
61/BM3230	61/CM3230	32A	30mA	2	1
61/BM4030	61/CM4030	40A	30mA	2	1

• Type A - Pure AC and pulsating DC sensitivity



MINIATURE CIRCUIT BREAKERS (6kA)

B CURVE	C CURVE	CURRENT RATING	POLES	MODULES
61/B06	61/C06	6A	1	1
61/B10	61/C10	10A	1	1
61/B16	61/C16	16A	1	1
61/B20	61/C20	20A	1	1
61/B32	61/C32	32A	1	1
61/B40	61/C40	40A	1	1
61/B50	61/C50	50A	1	1

Starbreaker miniature RCBOs and circuit breakers for use in the Consumer Units as shown below



- Miniature RCBO for maximum wiring space
- Quicker & easier to install
- Saves time & money on testing, no need to disconnect circuit cables
- Switched neutral built in as standard, fully isolates faults
- Guarantees healthy circuits remain in service
- Instant guaranteed plug in connections
- Fully insulated busbar with permanent shields

MODEL	RCBO	MCB
Product brand name	Starbreaker	Starbreaker
Product designation	RCD operated circuit breaker	Miniature circuit breaker
GENERAL TECHNICAL DATA		
Number of poles	2	1
Number of poles / Note	1P+N	1P
Number of poles / with protection	1	1
Tripping characteristics class	B or C	B or C
RCD type	A	-
Mechanical service life (switching cycles) / typical	10,000	-
Overvoltage category	III	3
PRODUCT FUNCTION		
Product function / neutral conductor switching	Yes	N/A
VOLTAGE		
Surge current resistance / at (8/20) $\mu$ s	1kA	N/A
SUPPLY VOLTAGE		
• at AC / rated value	240V	250V
• for testing equipment / minimum	195V	-
Supply voltage frequency / rated value	50Hz	50Hz
PROTECTION CLASS		
Protection class IP	IP20	IP20
Energy limiting class	3	3
SWITCHING CAPACITY CURRENT		
• acc. to EN 60898 / rated value	6kA	6kA
DISSIPATION		
Power loss (W)		
• for rated value of the current / at AC / in hot operating state / per pole	1.5W	2.6W
• maximum	2.6W	2.6W
ELECTRICITY		
Tripping residual current / rated value	30mA	N/A
Rated current in / IEC, DIN/VDE / at 40 cel	9.4A	15.08A
Current / at AC / rated value	6A - 40A	6A - 50A
CONNECTIONS		
Connectable conductor cross-section / stranded		
• minimum	0.75mm <sup>2</sup>	0.75mm <sup>2</sup>
• maximum	16mm <sup>2</sup>	25mm <sup>2</sup>
Connectable conductor cross-section		
• solid - minimum	0.75mm <sup>2</sup>	0.75mm <sup>2</sup>
• solid - maximum	16mm <sup>2</sup>	25mm <sup>2</sup>
• finely stranded / with core end processing - minimum	0.75mm <sup>2</sup>	0.75mm <sup>2</sup>
TIGHTENING TORQUE / WITH SCREW-TYPE TERMINALS		
Load terminal		
• minimum	1.2Nm	2.3Nm
• maximum	2.0Nm	3.0Nm
MECHANICAL DESIGN		
Height x Width x Depth	90mm x 18mm x 77mm	90mm x 18mm x 77mm
Mounting position	Any	Any
Installation depth	70mm	70mm
Number of width units	1	1
Net weight	130g - 168g	116g - 156g
ENVIRONMENTAL CONDITIONS		
Degree of pollution	2	2
Influence of the surrounding temperature	Maximum 95% humidity	Maximum 95% humidity
Ambient Temperature		
• minimum	-25°C	-25°C
• maximum	55°C	45°C
• during storage / minimum	-40°C	-40°C
• during storage / maximum	75°C	75°C



## Electrium

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Although every effort has been made to ensure accuracy in the compilation of the technical detail within this publication, specifications and performance data are constantly changing. Latest details can be obtained from Crabtree.

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