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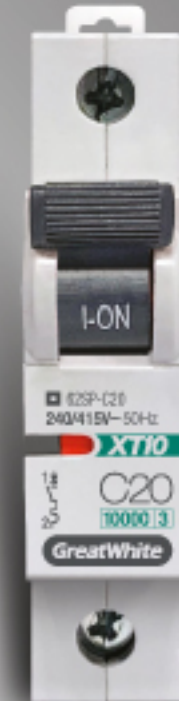
Switches | Lighting | MCB's | Wires & Cables | Fans | Conduits



GreatWhite Global Pvt. Ltd.
13th Floor, B - Wing, Peninsula Business Park, Senapati Bapat Marg, Lower Parel (W),
Mumbai - 400 003 | Tel: 022 300 36565 | Email: info@great-white.in



THE
FUTURE
NOW
SHOCK
PROOF



XT10™

MCB's | RCCB

Uncompromised protection.
Exceptional performance.



QUALITY Unparalleled



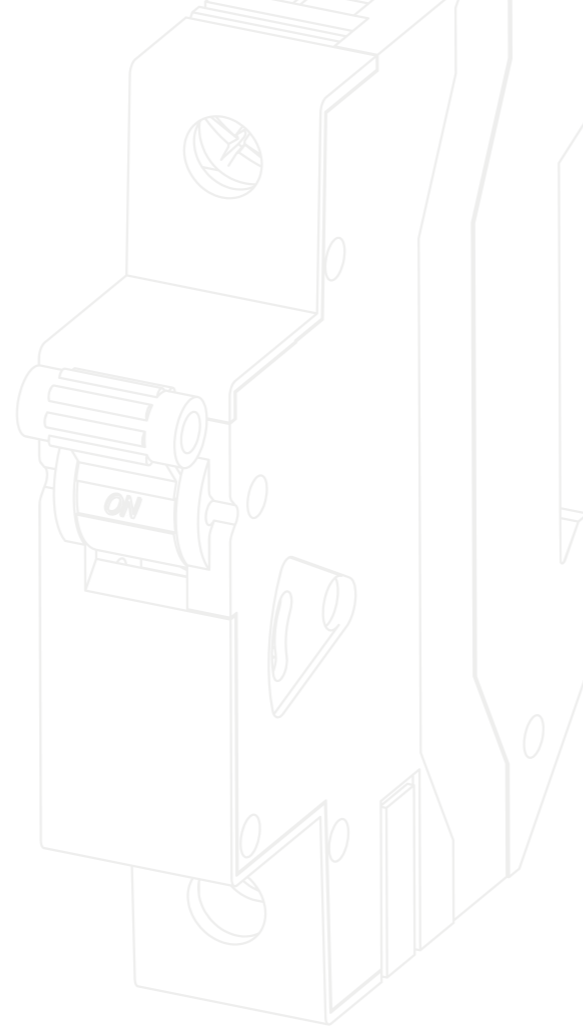
Electricity is an inseparable part of our daily lifestyle. In residential, commercial and industrial sectors there are complex systems, equipment and sophisticated appliances that depend on electrical energy. Uncontrolled electrical power can be extremely dangerous. Overloads, crowded wiring, short-circuits and all kinds of interruptions in electric supply can lead to devastating losses, least of them being financial.

We at GreatWhite are proud to be known and respected for our range of superior quality electrical control and safety devices. Through these, we speak of our lasting concern for safety, economy and productivity for our customers.

The latest product of GreatWhite is the 10kA MCB which is an advance International design for high performance, current limiting and automatic switching to ensure complete control and protection of industrial, commercial & domestic electrical sub circuits. It meets the latest specifications of IS/IEC: 60898-1.

GreatWhite MCB's ensure the safety of cables and other electronic peripherals with a dual protection system that safeguards against thermal overload and electromagnetic short circuit. Manufactured using quality components, like Silver Inlaid Copper, maximise contact reliability and provide increased energy savings. Housed in a high strength, flame retardant material with shock proofing and snap push technology improves safety and ease during mounting and demounting without interfering with other MCB's within the distribution board. Designed to surpass the highest international standards with a massive 10KA breaking capacity for the full range of 0.5A to 63A and a unique mid trip feature that allows instant identification of faulty circuits.

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Now
XTended Technology
in safe Hand



Be in the safe hands of MCB XT10

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XT10

Presenting **Greatwhite MCBs, RCCBs, ISOLATORS, DBs**

10kA

Breaking Capacity

[⚡]

Dual Protection

[🌿]

ROHS Compliant

3yrs

3 yrs Guarantee

Trip Indicator

Load/Line Reversibility

Large Terminals

Mid-Trip Function

XT10™

MCB



GREATWHITE MCB's PROTECT AGAINST OVERLOAD AND SHORT CIRCUITS

OVERLOAD PROTECTION

This is achieved by thermal operation of the bimetal strip which deflects when heated by the over current passing through it, thereby tripping the operating mechanism and causing the contact to open.

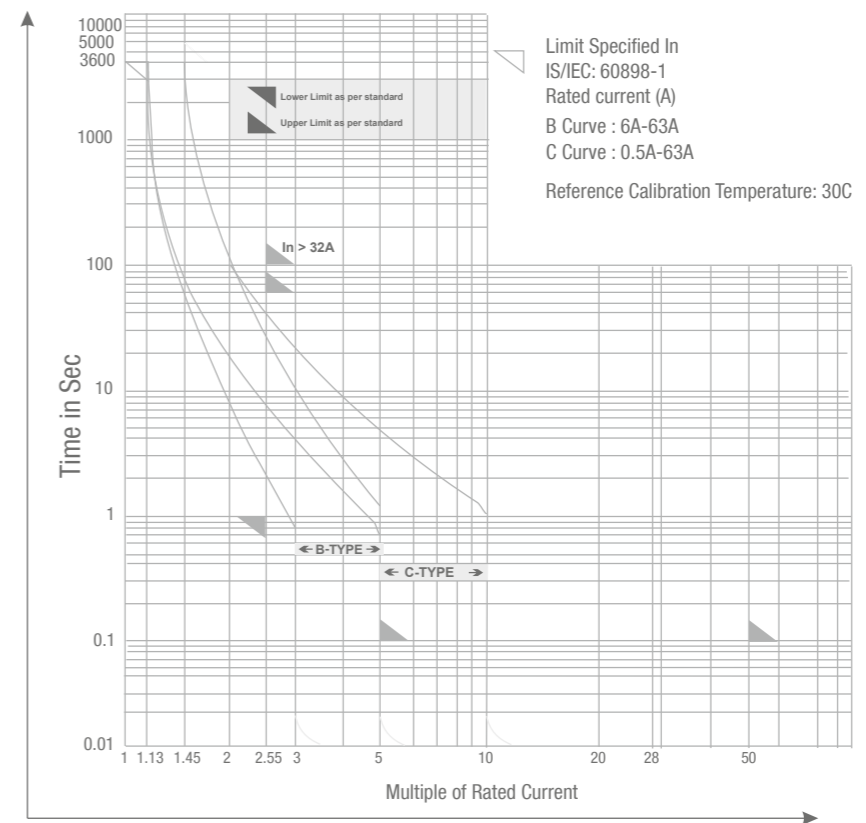
THERMOSTATIC BI-METAL

It is a composite material comprising of two metallic layers of different co-efficients of thermal expansion. These are permanently bonded together by pressure welding.

SHORT CIRCUIT PROTECTION

In an event of short circuit, the high current - in the range of kA, energises the solenoid and a magnetic field is created. Due to this magnetic field, the anchor is pulled down which pushes the plunger to strike the inner latch causing instantaneous opening of the contacts.

TRIPING CHARACTERISTIC CURVE B AND C



CHARACTERISTIC CURVES

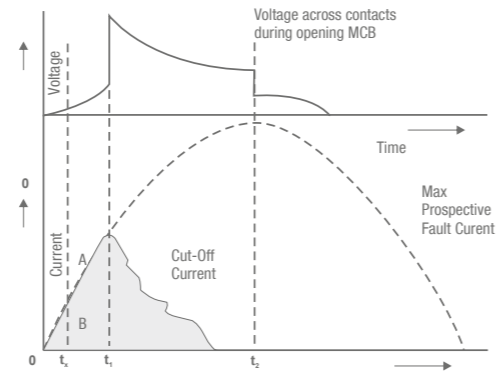
Thermal Tripping						
As per IS/IEC 60898-1	No Tripping Current	Tripping Current	Time Limit	Hold Current	Trip Current	Time Limit
B Curve	1.13 In		> 1hr	3 In		≥ 0.1sec
		1.45 In	< 1hr		5 In	< 0.1sec
C Curve	1.13 In		> 1hr	5 In		≥ 0.1sec
		1.45 In	< 1hr		10 In	< 0.1sec
2.55xIn	1s < t < 60sec In ≤ 32A 1s < t < 120sec In > 32A					

TIME CURRENT CHARACTERISTIC CURVES

- Based on the tripping characteristics, GreatWhite XT10 MCBs are available in 'B' and 'C' curves to suit different types of applications.
- 'B' Curve: for protection of electrical circuits with equipment that do not cause surge current (lighting and distribution circuits). Short circuit release is set to (3 - 5) In.
- 'C' Curve: for protection of electrical circuits with equipment that cause surge current (inductive loads and motor circuits). Short circuit release is set to (5 - 10) In.

CURRENT LIMITING DESIGN

In a current limiting breaker, the tripping & arc control mechanism is so designed that under short circuit conditions, the contacts are physically separated and the electrodynamic forces, set up by fault current, assist the extinction in less than half cycle.



TECHNICAL DETAILS

TECHNICAL INFORMATION	MCB
Standard Conformity	IS /IEC 60898:1
Type/Series	B C
Rated Current (In) Amp. (A)	6 - 63 0.5 - 63
Rated Voltage (ac) (Ue) V	240/415
Rated Frequency (f) Hz	50/60
Nos. of Poles (Execution)	1P, 1P+N, 2P, 3P, 3P+N, 4P
Rated Short Circuit Breaking Capacity	10
Short-time withstand current Icw (A)	NA
Short-time making current Icm (A)	NA
Utilization Category	
Magnetic Release Setting	(3-5)In (5-10)In
Rated Insulation Voltage (Ui) V	660
Rated Impulse Voltage (Uimp) kV	4
Electrical strength (High Voltage)	2
Electrical / Mechanical Endurance	
Less than 32A	20,000
More than 32A	10,000
Reference Ambient Temp	30°C
Operating Temperature	-5°C to +60°C
Storage Temperature	-25°C to +70°C
Terminal Capacity (max) sq.mm	25
Energy Limiting class	3
Vibration g	3
Shock	40mm free fall
Protection Class	IP-20
Installation Position	Vertical / Horizontal
Mounting	Clip on DIN Rail
Case & Cover	Moulded, flame retardant thermoplastic material

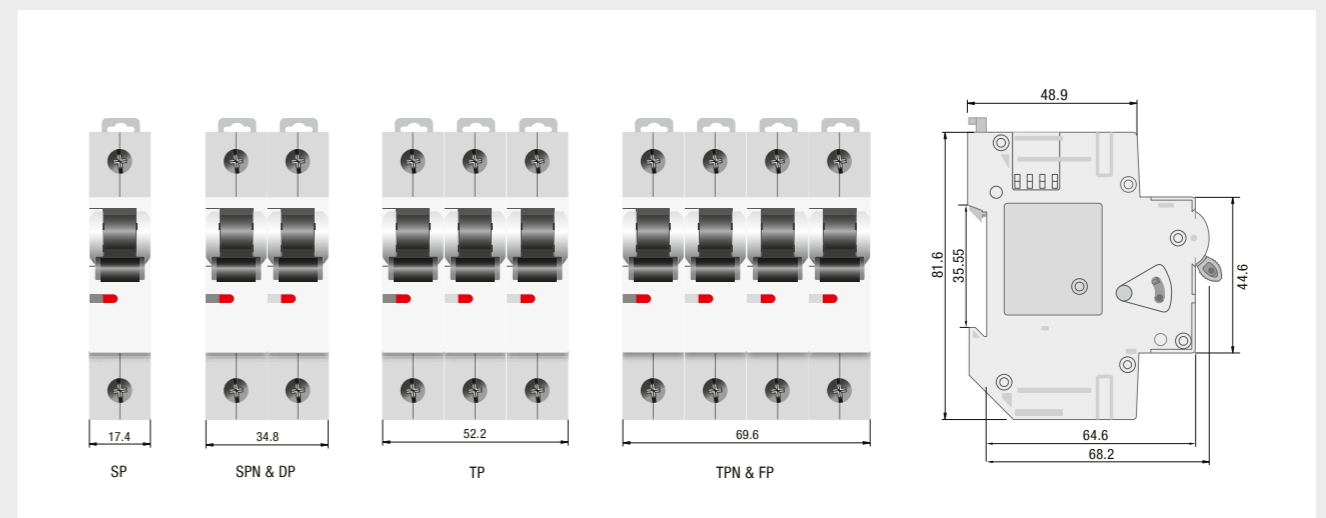
POWER LOSS DETAILS

Rating Ampere (A)	GreatWhite MCBs Power	Max. Permissible Power Loss (W) Loss (Watts) As per IS/IEC:60898-1
6A	0.7	3.0W
10A	1.4	3.0W
16A	2.3	3.5W
20A	2.6	4.5W
25A	3.1	4.5W
32A	3.4	6.0W
40A	3.9	7.5W
63A	7.3	13.0W

MCB De-Rating factor table

In	AMBIENT TEMPERATURE/ IN									
	- 25 °C	- 10 °C	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C
6A	7.5	7	6.6	6.4	6.18	6	5.8	5.6	5.4	5.2
10A	12.5	11.5	11.1	10.7	10.3	10	9.7	9.3	9	8.7
13A	16.3	15.2	14.6	14.1	13.5	13	12.5	11.9	11.5	11
16A	20	18.7	18	17.3	16.6	16	15.4	14.7	14.1	13.5
20A	25	23.2	22.4	21.6	20.8	20	19.2	18.4	17.6	16.8
25A	31.5	29.3	28.3	27.2	26	25	24	22.7	21.7	20.7
32A	41	37.8	36.5	34.9	33.3	32	30.7	29.1	27.8	26.5
40A	51	48	46	44	42	40	38	36	34	32
50A	64	60	57.7	55	52.5	50	47.5	45	42.5	40
63A	80.6	75.6	72.5	69.9	66.1	63	59.6	56.2	52.5	50.4

Reference Temperature 30°C: According to IS/IEC 60898-1



XT10™

MCB

“B” CURVE



Rating (Amps)	SP	SPN	DP	TP	TPN	FP
6A	62SP-B06	62SPN-B06	62DP-B06	62TP-B06	62TPN-B06	62FP-B06
8A	62SP-B08	62SPN-B08	62DP-B08	62TP-B08	62TPN-B08	62FP-B08
10A	62SP-B10	62SPN-B10	62DP-B10	62TP-B10	62TPN-B10	62FP-B10
13A	62SP-B13	62SPN-B13	62DP-B13	62TP-B13	62TPN-B13	62FP-B13
16A	62SP-B16	62SPN-B16	62DP-B16	62TP-B16	62TPN-B16	62FP-B16
20A	62SP-B20	62SPN-B20	62DP-B20	62TP-B20	62TPN-B20	62FP-B20
25A	62SP-B25	62SPN-B25	62DP-B25	62TP-B25	62TPN-B25	62FP-B25
32A	62SP-B32	62SPN-B32	62DP-B32	62TP-B32	62TPN-B32	62FP-B32
40A	62SP-B40	62SPN-B40	62DP-B40	62TP-B40	62TPN-B40	62FP-B40
50A	62SP-B50	62SPN-B50	62DP-B50	62TP-B50	62TPN-B50	62FP-B50
63A	62SP-B63	62SPN-B63	62DP-B63	62TP-B63	62TPN-B63	62FP-B63



*SP= Single Pole | *SPN= Single Pole Neutral | *DP= Double Pole | *TP= Triple Pole | *TPN= Triple Pole Neutral | *FP= Four Pole

“C” CURVE



Rating (Amps)	SP	SPN	DP	TP	TPN	FP
0.5A	62SP-C0.5	62SPN-C0.5	62DP-C0.5	62TP-C0.5	62TPN-C0.5	62FP-C0.5
1A	62SP-C01	62SPN-C01	62DP-C01	62TP-C01	62TPN-C01	62FP-C01
1.5A	62SP-C 1.5	62SPN-C 1.5	62DP-C 1.5	62TP-C 1.5	62TPN-C 1.5	62FP-C 1.5
2A	62SP-C02	62SPN-C02	62DP-C02	62TP-C02	62TPN-C02	62FP-C02
2.5A	62SP-C2.5	62SPN-C2.5	62DP-C2.5	62TP-C2.5	62TPN-C2.5	62FP-C2.5
3A	62SP-C03	62SPN-C03	62DP-C03	62TP-C03	62TPN-C03	62FP-C03
4A	62SP-C04	62SPN-C04	62DP-C04	62TP-C04	62TPN-C04	62FP-C04
5A	62SP-C05	62SPN-C05	62DP-C05	62TP-C05	62TPN-C05	62FP-C05
6A	62SP-C06	62SPN-C06	62DP-C06	62TP-C06	62TPN-C06	62FP-C06
8A	62SP-C08	62SPN-C08	62DP-C08	62TP-C08	62TPN-C08	62FP-C08
10A	62SP-C10	62SPN-C10	62DP-C10	62TP-C10	62TPN-C10	62FP-C10
13A	62SP-C13	62SPN-C13	62DP-C13	62TP-C13	62TPN-C13	62FP-C13
16A	62SP-C16	62SPN-C16	62DP-C16	62TP-C16	62TPN-C16	62FP-C16
20A	62SP-C20	62SPN-C20	62DP-C20	62TP-C20	62TPN-C20	62FP-C20
25A	62SP-C25	62SPN-C25	62DP-C25	62TP-C25	62TPN-C25	62FP-C25
32A	62SP-C32	62SPN-C32	62DP-C32	62TP-C32	62TPN-C32	62FP-C32
40A	62SP-C40	62SPN-C40	62DP-C40	62TP-C40	62TPN-C40	62FP-C40
50A	62SP-C50	62SPN-C50	62DP-C50	62TP-C50	62TPN-C50	62FP-C50
63A	62SP-C63	62SPN-C63	62DP-C63	62TP-C63	62TPN-C63	62FP-C63

MCB Selection Chart for Household application

Appliances	Capacity/Watt (Load) (240V AC 1ph)	Current Rating of MCB	Type of MCB
	1.0T 1.5T 2.0T	10A 16A 20A	C Series
	4500W 1750W	20A 10A	B Series
	750W 2000W 1000W 2000W	06A 10A 06A 10A	B Series B Series
	1000W 1300W 1800W 2000W	06A 10A 06A 10A	C Series C Series
	1000W 2000W 3000W 6000W	06A 10A 16A 32A	B Series B Series
	750W 1250W	06A 06A	B Series
	1200W 1500W	06A 10A	B Series

*T=Tonnes | *W= Watts | *A=Amperes

B” Series MCB is used for all resistive load for e.g on lighting application

Lamp (Watt)	Number of Lamps				Rating (A)		
20 W	8	12			1	1.5	
40 W	2	10	12		0.5	2	2.5
60 W	1	4	8	12	0.5	1.5	3
80 W	1	2	5	8	12	0.5	1
100 W	1	2	4		0.5	1.5	2.5

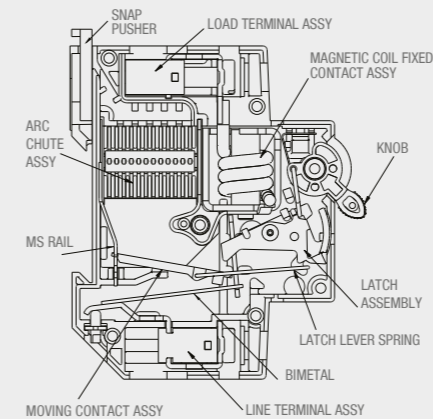
NOTE: One lighting circuit can have upto 800W or upto 10 lighting points One power circuit can have upto 2000W or 1 power point

“C” Series MCB is used for all inductive load for e.g motor application

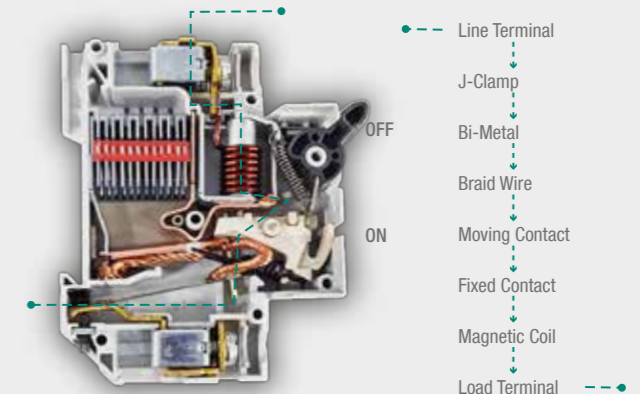
Incomer Current Rating for Single Phase: 240V

Incomer Current Rating for Three Phase: $\sqrt{3} \times 240V$

Construction



Current Flow of XT10 MCB





XT10™

MCB

Features and ADVANTAGES

ADVANCE SAFETY DESIGN

MCB Promises Longer Electrical Life. Reduces electromagnetic stress resulting in increased contact life.

GUARANTEED HIGH PERFORMANCE

Breaking capacity of 10kA in all the products from 6A to 63A in single pole and multi pole, added 3yrs guarantee.

DUAL PROTECTION (BOTH OVERLOAD & SHORTCIRCUIT)

Thermal Overload Protection | Magnetic Short-circuit Protection. In an event of an over current or short circuit, the MCB automatically interrupts all the poles even if the MCB knob is held in 'ON' position.

MID TRIP FUNCTION

Mid trip offers unique feature of knob coming to mid position in an event of electrical fault & MCB device tripping. This provides clear identification of faulty circuit.

LARGER TERMINALS

Dual terminal facility for incoming side that can take wire up to 25sq.mm across section. The wire may be of copper or aluminium.

FINEST HOUSING MATERIAL

High Strength FLAME RETARDANT polyamide housing material.

SHOCK PROOF - IP20

IP 20 degree protection. All live parts are out of human reach thus ensuring safety to installers.

FLEXIBILITY / EASY INSTALLATION

Innovative snap pusher for easy mounting & demounting of MCB without disturbing other MCBs when mounted in distribution board. GreatWhite MCBs can be mounted easily in any regular Distribution Boards.

ENERGY SAVING

IS/IEC: 60898-1 have recognized the growing importance of limiting power loss in Switchgear devices and stipulated maximum. Permissible power loss values per pole of MCB. GreatWhite MCB contacts are made of silver inlaid copper ensuring long life, maximum safety, and low contact resistance. All these result in LOW WATT LOSS leading to ENERGY SAVING.

IS/IEC60898-1



CM / L-4840771
For Bis Certification Details,
Log on to: www.bis.org.in



GreatWhite®



XT10™

ISOLATOR



ISOLATOR

GreatWhite Isolators are switch disconnectors with independent manual operation, capable of making, carrying and breaking current under normal circuit conditions, which may include operating under overload condition and also carry current under a specified abnormal circuit conditions such as those of short circuits for a specified time

ISOLATOR

XT10™

ISOLATOR

Greatwhite Isolators are provided with following features :

- 1) Safety terminals to avoid improper cable termination
- 2) Easy Snap pusher for mounting easily on Din Rail channel of DB's
- 3) Large cable terminal to terminate cable size upto 25sq mm
- 4) Cooler operation - Grooves provides on outer body on Isolator so that when individual poles are placed adjacent to each other in DB's It forms a very infective path for better air circulation resulting no over heating between two poles.

Features

- Longer Electrical life
- Wide range • Value for Money
- Cost effective & Energy Saving



Safety Terminal



Easy Snap Pusher



Large Terminal



Cooler Operation

TECHNICAL DETAILS

TECHNICAL INFORMATION	ISOLATOR
Standard Conformity	IEC 60947-3
Type/Series	NA
Rated Current (In) Amp. (A)	16 - 63
Rated Voltage (ac) (Ue) V	240/415
Rated Frequency (f) Hz	50
Nos. of Poles (Execution)	1P, 2P, 3P, 4P
Rated Short Circuit Breaking Capacity	NA
Short-time withstand current Icw (A)	12xIn, 1s
Short-time making current Icm (A)	12xIn
Utilization Category	AC 22A
Magnetic Release Setting	-
Rated Insulation Voltage (Ui) V	660
Rated Impulse Voltage (Uimp) kV	6
Electrical strength (High Voltage)	2
Electrical / Mechanical Endurance	10,000
Reference Ambient Temp	30°C
Operating Temperature	-5°C to +60°C
Storage Temperature	-25°C to +70°C
Terminal Capacity (max) sq.mm	25
Energy Limiting class	NA
Vibration g	3
Shock	40mm free fall
Protection Class	IP-20
Installation Position	Vertical / Horizontal
Mounting	Clip on DIN Rail
Case & Cover	Moulded, Flame retardant Thermo Plastic material

RATING (Amps)	CODE
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Isolator Single Pole (SP)

16A	62SP-I16
20A	62SP-I20
25A	62SP-I25
32A	62SP-I32
40A	62SP-I40
63A	62SP-I63

Isolator Double Pole (DP)

16A	62DP-I16
20A	62DP-I20
25A	62DP-I25
32A	62DP-I32
40A	62DP-I40
63A	62DP-I63

Isolator Triple Pole (TP)

16A	62TP-I16
20A	62TP-I20
25A	62TP-I25
32A	62TP-I32
40A	62TP-I40
63A	62TP-I63

Isolator Four Pole (FP)

16A	62FP-I16
20A	62FP-I20
25A	62FP-I25
32A	62FP-I32
40A	62FP-I40
63A	62FP-I63

GreatWhite™

XT10™

CHANGEOVER



TWO WAY CENTRE OFF

For Dual Electricity Supply Management
(In accordance with IS/IEC 60947-3)

GreatWhite MCB Changeover Switch is a manual operated changeover switch for switching load between two power supplies. MCB Changeover switch finds wide applications in residential, commercial as well as in industries area. This switching device widely accepted For Individual Bungalow(IB) which is having low voltage distribution circuits. Changeover switches are used to shift from one source of supply to another source and vice versa. GreatWhite MCB changeover switch comes in 2P (Double Pole) and 4P (Four Pole) versions, for single and three phase application respectively. It has three positions (I-O-II) with centre-off. They are switch disconnectors with independent manual operation, capable of making, carrying and breaking currents under normal circuit conditions. Which may include operating overload condition and carry under specified abnormal circuit conditions such as those of short circuit for a specified time.

CHANGEOVER

CURRENT	CODE
Reference Standard	IS/IEC 60947-3
No. of Poles	DP & FP
Current Rating (In)	25A, 32A, 40A & 63A
Rated Voltage (Ue)	240/ 415 V~
Rated Frequency	50Hz
Rated Insulation voltage	660V
Rated impulse voltage	4kV
Electrical Endurance life	10,000
Electrical Endurance life	10,000
Dielectric Strength	2.5kV
Utilisation Category	AC22A
Protection	IP20
Operating Temperature	-25°C to 60°C
Storage Temperature	-25°C to +70°C
Mounting	Clip on Din Rail Vertical

TWO WAY CENTER OFF CHANGEOVER SWITCH

For Dual Electricity Supply Management (IS/IEC 60947-3)

Rating	Double Pole	Four Pole
25A	62DP-C025	62FP-C025
40A	62DP-C040	62FP-C040
63A	62DP-C063	62FP-C063

RESIDUAL CURRENT CIRCUIT BREAKER RCCB



Presenting Pioneering RCCBs that guarantee you stay out of harm's way.

The flow of current through electrical facilities always involves risks. Poorly insulated equipment, faulty wires and incorrect use of electrical devices cause current to flow through the wrong path (i.e. through the insulation) to the earth. This current is called 'Leakage Current'. Earth leakage is an electrical hazard and is responsible for electrical shocks and fires. Earth leakage and its associated hazards can be prevented by Residual Current Circuit Breaker (RCCB) that is also popularly known as Earth Leakage Circuit Breaker (ELCB).

XT10™

RCCB

FEATURES

- Simple and Robust operating mechanism.
- Dual termination for Bus Bar as well as cable connection
- Advance neutral • Test button for regular inspection
- Positive contact indication

PROTECTION AGAINST ELECTROCUTION

The use of exposed, substandard, badly wired, wrongly connected or damaged equipment as well as frayed or badly repaired cables reduces the safety of an installation and increases the risk of an electric shock.

Electrocution is the passage of current through human body, which no doubt is dangerous. The flow of current through human body effects vital functions like: a) Breathing (b) Heartbeat

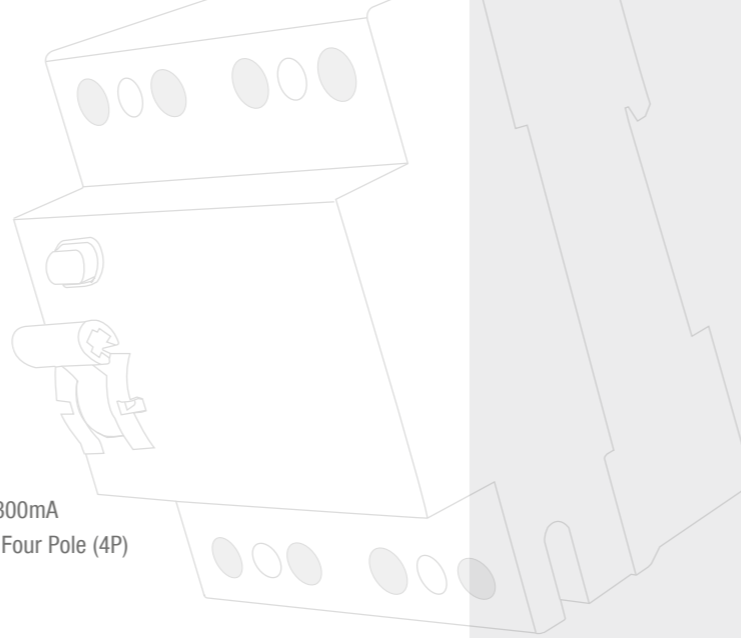
A correctly chosen Greatwhite RCCB can detect small currents flowing to earth and can reduce the risk of electrocution. However, electrocution should not be viewed in terms of “current” alone but in terms of “contact voltage” as well. A person gets electrocuted by coming in contact with an object that has a different potential from his/her own. The difference in potential causes the current to flow through the body.

The human body has known limits:

- Under normal dry conditions, voltage limit = 50V • In damp surroundings, voltage limit = 25V

BENEFITS

- Range 16A - 63A
- Sensitivity 30mA, 100mA, 300mA
- Execution Double Pole (2P) Four Pole (4P)



RCCB



Rating (Amps)	DP	FP
16A/30mA	62-DP-30-R16	62-FP-30-R16
16A/100mA	62-DP-100-R16	62-FP-100-R16
16A/300mA	62-DP-300-R16	62-FP-300-R16
25A/30mA	62-DP-30-R25	62-FP-30-R25
25A/100mA	62-DP-100-R25	62-FP-100-R25
25A/300mA	62-DP-300-R25	62-FP-300-R25
32A/30mA	62-DP-30-R32	62-FP-30-R32
32A/100mA	62-DP-100-R32	62-FP-100-R32
32A/300mA	62-DP-300-R32	62-FP-300-R32
40A/30mA	62-DP-30-R40	62-FP-30-R40
40A/100mA	62-DP-100-R40	62-FP-100-R40
40A/300mA	62-DP-300-R40	62-FP-300-R40
63A/30mA	62-DP-30-R63	62-FP-30-R63
63A/100mA	62-DP-100-R63	62-FP-100-R63
63A/300mA	62-DP-300-R63	62-FP-300-R63

PROTECTION AGAINST INDIRECT CONTACT

Over current protection devices like MCBs are unable to act promptly on small earth leakage currents. To comply with wiring regulations, the earth fault loop impedance (in Ohms), multiplied by the rated tripping current of the RCD (in amperes) must not exceed 50.

For instance:

For a RCD with a rated tripping current of 30mA, the maximum permissible earth fault loop impedance is calculated as follows: $Z_s(\text{max}) = 50 / I_n = 50/0.03 = 1,666$

RCCB POSSIBLE APPLICATION AREA

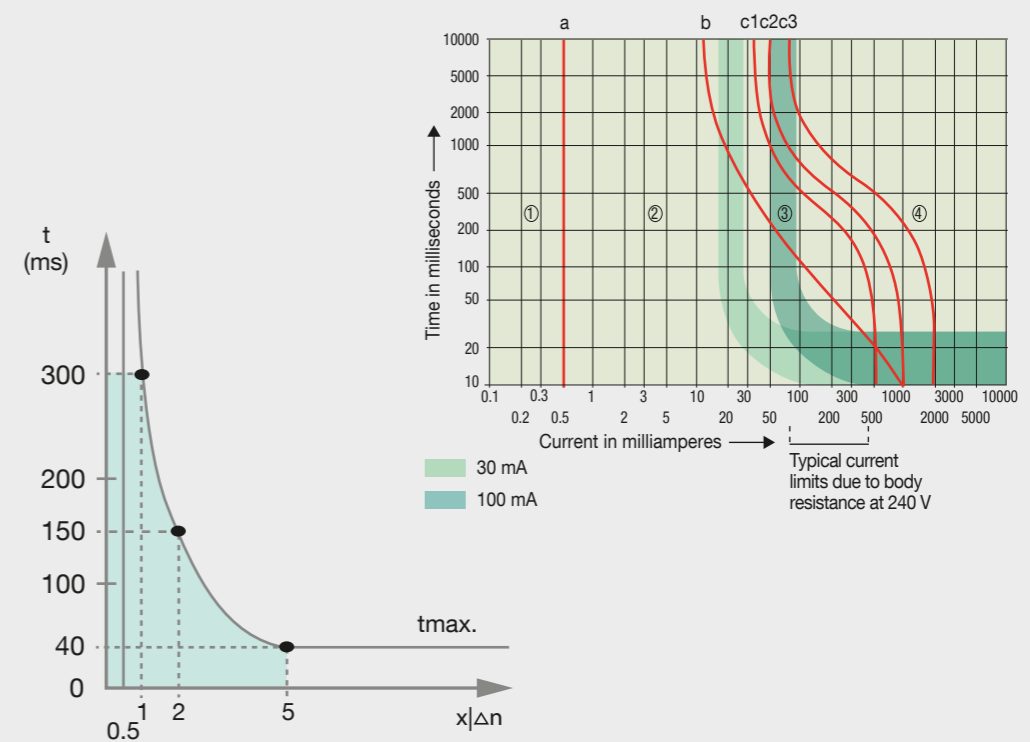
For Universal use in normal circuits.
Additional protection of Socket outlet circuits.
To achieve a high degree of service security.
For Commercial & Industrial power installation

Rated Tripping Current of the RCD	Maximum permissible earth fault loop impedance in
30mA	1666
100mA	500
300mA	166

PROTECTION AGAINST FIRE

Majority of fires which occur as a result of faulty wiring are started by current flowing to earth. small current. Correctly chosen RCD will detect this faulty current and will interrupt the supply thus reducing the risk of fire.

TECHNICAL INFORMATION	RCCB
Standard Conformity	IS 12640 (Part)1: 2008, IEC 61008-1:1996
Rated Current (In) - A	16, 25, 32, 40, 63
Type	AC
Rated Voltage (Ue) 2 Pole V~	240
4 Pole	415
No of Pole (Execution)	2P, 4P
Rated Frequency - Hz	50
Conditional short - circuit capacity (Inc) - A	6000
Conditional residual short - circuit capacity (IΔc)	6000
Rated Making and Breaking Capacity (Im)	500 A or (10x In)
Residual Making and Breaking Capacity (IΔm)	500 A or (10x In)
Power Supply	Top/Bottom
Rated Impulse Voltage (Umip) - KV	6
Dielectric strength	2500 V
Electrical Endurance life	10,000
Mechanical life	10,000
Protection Class	IP20
Vibration - g	3
Shock Test	40 mm free fall
Reference Ambient Temp - °C	30
Terminal Capacity - mm²	35
Operating temperature	-25°C to 60°C
Storage Temperature	-25°C to + 70°C
Mounting	Din Rail Clip
Insulation Position	Vertical / Horizontal





DISTRIBUTION
BOARDS
DBS

BOXit™

Distribution Board

Presenting Revolutionary DBs that ensure you will always be on the safe side

GreatWhite makes Great Distribution Boards that provide flexibility and are a systematic approach to the ever increasing need for effective methods of the electrical distributions in domestic, commercial and industrial applications. GreatWhite Distribution Boards have been specially designed to meet all the technical requirements and ensure that the Distribution Boxes blend well with any decor. Distribution Boards, with their features and their unique range offer a compact, practical and economic solution to any electrical network in residential, commercial complexes, industries etc. having single phase or three phase connections. Distribution Boards are not merely an enclosure but a complete system in itself comprising of Copper bus bar, brass neutral link, earth link, earthing studs, and interconnection wires for effective distribution of current.

BOXit™

Distribution Board

Range:
Single Phase & Three Phase

Execution:
Horizontal & Vertical

Specification:
IS : 13032 & IEC : 439 & 529

FEATURES

- Superior aesthetics that blends well with any decor.
- Made of special grade CRCA sheet steel to provide strength and longer life.
- Manufactured with latest technology- CNC Punch and Brake presses to assure the highest degree of perfection.
- Painted with epoxy polyester and polyester resin based powder paints of the latest techniques to ensure strong, scratch resistant coatings.
- Current carrying parts are made of electrolytic grade of copper having high conductivity and low resistivity thereby keeping temperature rises and distribution losses very low.
- Appropriate sizes of DIN rails to facilitate easy and fast mounting of MCBs, RCCBs, Isolators etc.
- Brass neutral and earth bars of suitable cross-sectional areas are provided to facilitate connections for each outgoing terminals.
- Adequate number of knockout holes of various sizes, are provided both at the top and the bottom This facilitates easy installation and connection of conducts of all sizes.
- Detachable upper and lower end plates for easy and flexible cables.
- Superior single phase bus bars which are completely insulated and fitted in PVC channel to avoid accidental touch.
- Suitable for both flush and surface mounting.
- Confirms to IS 13032 & IEC : 439 & 529

New Additional Features

1. Masking - (Cement & Water guard)

During the construction stage, the DBs can get ingressed with water & cement dust. This can spoil the decor and more importantly alter the performance parameters. Standard smart trek DBs come with a masking arrangement that keeps water and cement dust away.

2. Flexibility during installation

GreatWhite DBs are provided with an intermediate detachable door/plate fixed on the inner door to give flexibility of installation i.e. during installation or main-tenance, the entire door need not be dismantled this thus saves valuable installation time. Additionally, this also ensures that electrically live parts do not get exposed.

3. Reversible Doors

The outer DB doors are reversible. While the doors come fitted on the left side, these can be reversed and fitted on to the right side by the user.

4. Weather proof design

All Double door DBs are designed to ensure weather proof as per ingress protection IP-42 category.

S.No.	TYPE	CONFIGURATION	APPLICATION
A	SPN	SPN	Simple, Economical & Safe Distribution. Consumer Simple, Economical & Safe Distribution.
B	TPN	TPN (Horizontal)	Three phase neutral incoming and outgoing can be only single phase.
		TPN (Vertical)	Three phase and neutral incoming, outgoing can be single phase as well as multi phase.
		Per Phase Isolation	DP RCCB in each phase is provided to avoid earth leakage fault exist gets isolated.
C	Special	Plug & Socket	Used for air conditioners and motor protection.
		MCB Enclosures	To isolate / connect electrical appliances independently.

ACCESSORIES

- Neutral Bar/Earth Bar • DIN Channel • Bus Bar with PVC Sleeve • Blanking Plate ½

IP RATINGS

The IP (International Protection) rating given to an enclosure states the degree of protection it offers by means of two digits. A summary of these is shown below. For more details, see IEC 529:1989, BS EN 60529 : 1992.

FIRST DIGIT

Protection against solid foreign objects and access to hazardous parts. The first digit covers protection against penetration by solid objects which includes hands and tools such as screwdrivers. At the lowest of seven levels, 0, no protection is offered either for the equipment from damage by intrusion, or to a person contacting live or moving parts. At the highest, there shall be no entry of dust.

SECOND DIGIT

Protection against ingress of water. On a progressive scale, the second digit covers the degree of protection against the entry of water. For example, number 1 indicates that dripping water shall have no harmful effect, while number 6 indicates that water projected in powerful jets against the enclosure from any direction shall have no harmful effects.

MCB | RCCB | ISOLATOR | CHANGEOVER | DBs

XTended Technology Redesigned



MCB | RCCB | ISOLATOR | CHANGEOVER | DBs