



AXON<sup>TM</sup>  
Electric  
"where Innovation meets Electricity"

MCB

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## ABOUT US

Our History: “**Axon Electric Corporation**”, established in 2009, has been dedicated to provide the supply of best electrical, Electronic, and Automation Products to clients. Over the years, we have grown from a small team with a big dream to a trusted industry player, serving patrons across INDIA and offshore. As a leading provider of Industrial Electrical products, we strive to deliver exceptional solutions that empower our clients to thrive in today’s ever-evolving business landscape. We embrace a culture of continuous learning and exploration, pushing boundaries to drive meaningful advancements.

1.Our Mission: Our mission is to revolutionize businesses in electrical sector by offering advanced ,energy-efficient with innovative and reliable solutions that drive growth, efficiency, and success. We aim to empower our clients achieve their businesses to a more sustainable world.

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Commitment: At Axon, we believe in a customer-centric approach ,We are committed to delivering exceptional customer satisfaction through innovative solutions, personalized support, and strategic guidance, hence our commitment to customer focus has paved Axon’s path to be the most preferred vendors for customers

## Products of Axon

We deal in MCBs, Isolators, RCCBs, Change over Switches, Manual Change over Switches, Automatic Changeover switches, Distribution Boards

# E-FORT + Series MCB



## E-FORT + Series MCB

### INTRODUCTION

**AXON** MCB is an electromagnetic device that automatically breaks the circuit if the current in the circuit reaches a predetermined value. The MCBs perform two major functions: over-current protection and short-circuit protection. The complete MCB system is housed within a plastic moulding which is made of flame-retardant, high strength plastic. The quality of the material used and its design ensures that our MCBs are highly durable and reliable.

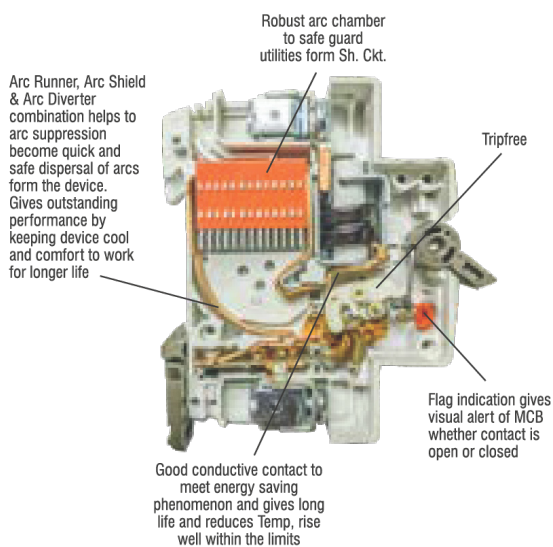
**AXON** – MCBs are safe and useful in protecting people and property against electrical overload and short circuit risks, in homes, offices, factories and all types of business establishments. In the event of a Short Circuit, MCB disconnects supply to the load within a fraction of a second, MCBs are also highly useful in preventing electrical fires.

An MCB can be used instead of a conventional fuse in a distribution board. Compared to a traditional fuse, MCB are designed to operate accurately under both overload and short circuit conditions. An MCB can also be reset quickly after it trips. The tripping of MCB can easily be identified by its operating knob which moves from ON to OFF position.

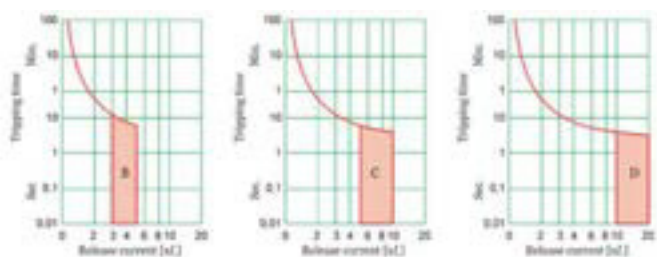
### SELECTION PROCEDURE

Now that you know about the types of MCB, you should analyse the kind that would best suit your household device. Before choosing the type of MCB, it is essential to find out a few technical details. First, check what voltage and frequency at which the device functions, like if it is AC or DC. Next, note the starting current and trip characteristics. Additionally, see if there are any extra features like a manual or automatic reset and about safety approvals. Sometimes, the operating conditions, like the temperature, corrosion and radiation, may contribute to choosing the correct MCB. Although the current rating is the primary deciding factor, it is better to analyse other factors before investing in the MCB as it plays an important role in preventing electrical hazards at your place.

### DESIGN ASPECTS



### PRODUCT SAFETY AND TRIPPING CHARACTERISTICS



Graphs for B, C, D Tripping Characteristics

### ENERGY SAVING DETAILS

The low power loss/watt loss as stipulated in the governing standard IS/IEC 60898-1:2015 has been taken care in designing our Axon MCBs. The low watt loss figures of our MCB contributes significantly to the energy saving norms of the international Standards

Rated Current (A)	Max. Allowable watt loss/ Pole as per IS/IEC 60898-1:2015	MCB Max. Watt Loss
0.5	3.0	1.2
2	3.0	1.5
4	3.0	2.1
6	3.0	0.7
10	3.0	1.3
16	3.5	2.1
20	4.5	2.3
25	4.5	3.0
32	6.0	3.3
40	7.5	3.5
50	9.0	6.0
63	13.0	7.2

### SALIENT FEATURES

- **AXON** MCBs are rated at 10 kA I<sub>cn</sub> to IEC 60898 & IEC 60947-2, trip types B, C & D
- MCBs are designed for 15 kA I<sub>cn</sub> to IEC 60947-2, trip types B, C & D
- Product conforms to Latest National & International Standards:
- Reference Standard : IS/IEC 60898 – 1 : 2015
- Short circuit Breaking capacity – 10kA
- Rated current – 0.5, 2, 4, 6, 10, 16, 20, 25, 32, 40 , 50 and 63A
- Configuration – SP, SPN, DP, TP, TPN and FP
- Duty / Curve – B / C / D
- Series - Premium Series "e-breaker " and Economy Series "i-breaker "
- Available in fix on to standard Din Rail in all types of MCB Distribution boards
- Terminals can accept Bus bars as well as cables for external connections (up 25 Sq.mm)

### TECHNICAL SPECIFICATIONS

Product Standard	IS/IE C 60898-1:2015	
System Certification	ISO 9001-2015 / ISO 14001-2015 / ISO 45001:2018	
<b>ELECTRICAL FEATURES</b>		
Poles	1P, 2P, 3P, 4P, SPN, TPN	1P, 2P, 3P, 4P, SPN, TPN
Thermal - Magnetic release characteristics	B Type	C Type
Rated Current	In 6 to 32A	6 to 32A
Rated Voltage	Uc 1P - 240/415V, 2P, 3P, 4P, SPN - 240V, TPN - 415V	1P - 240/415V, 2P, 3P, 4P, SPN - 240V, TPN - 415V
Insulation Voltage	UI 500V	500V
Max. Working Voltage	Umax 453V	453V
Min. Working Voltage	Umin 12V	12V
Rated Impulse withstand Voltage	U Imp 6kV	6kV
Dielectric Test Voltage	2kV	2kV
Rated Frequency	50 Hz	50 Hz
Pollution Degree	2	2
Electrical Life	>4000	>4000
Mechanical Life	>10000	>10000
Contact Position Indicator	YES	YES
Fault Indicator	NO	NO
<b>INSTALLATION</b>		
Protection Degree - MCB Body	IP - 20	IP - 20
Protection Degree - installed in DB	IP - 20	IP - 20
Reference Temp. Setting (25° C) for thermal setting	25° C	25° C
Ambient Temp. (with daily Average)	40° C	40° C
Storage Temp.	-25° C / +70° C	-25° C / +70° C
Terminal Connection Type	Cable / Bus Bar	Cable / Bus Bar
Cable Size Max	25 Sq. mm	25 Sq. mm
Tightening Torque	3 Nm	3 Nm
Connection	Top / Bottom	Top / Bottom
<b>ACCESSORIES *</b>		
Aux. Contact	YES	YES
Alarm Contact	YES	YES
Shunt Release	YES	YES

