



MINIATURE CIRCUIT BREAKER

Axon MCB is an electromagnetic device that automatically breaks the circuit if the current reaches out predetermined value. The MCB's performs two major functions: over current protection and short circuit protection. The entire MCB system is housed within plastic moulding which is made up of flame-retardant, high strength plastic. The quality of the material used and its design ensures that our MCB's are highly durable and reliable.

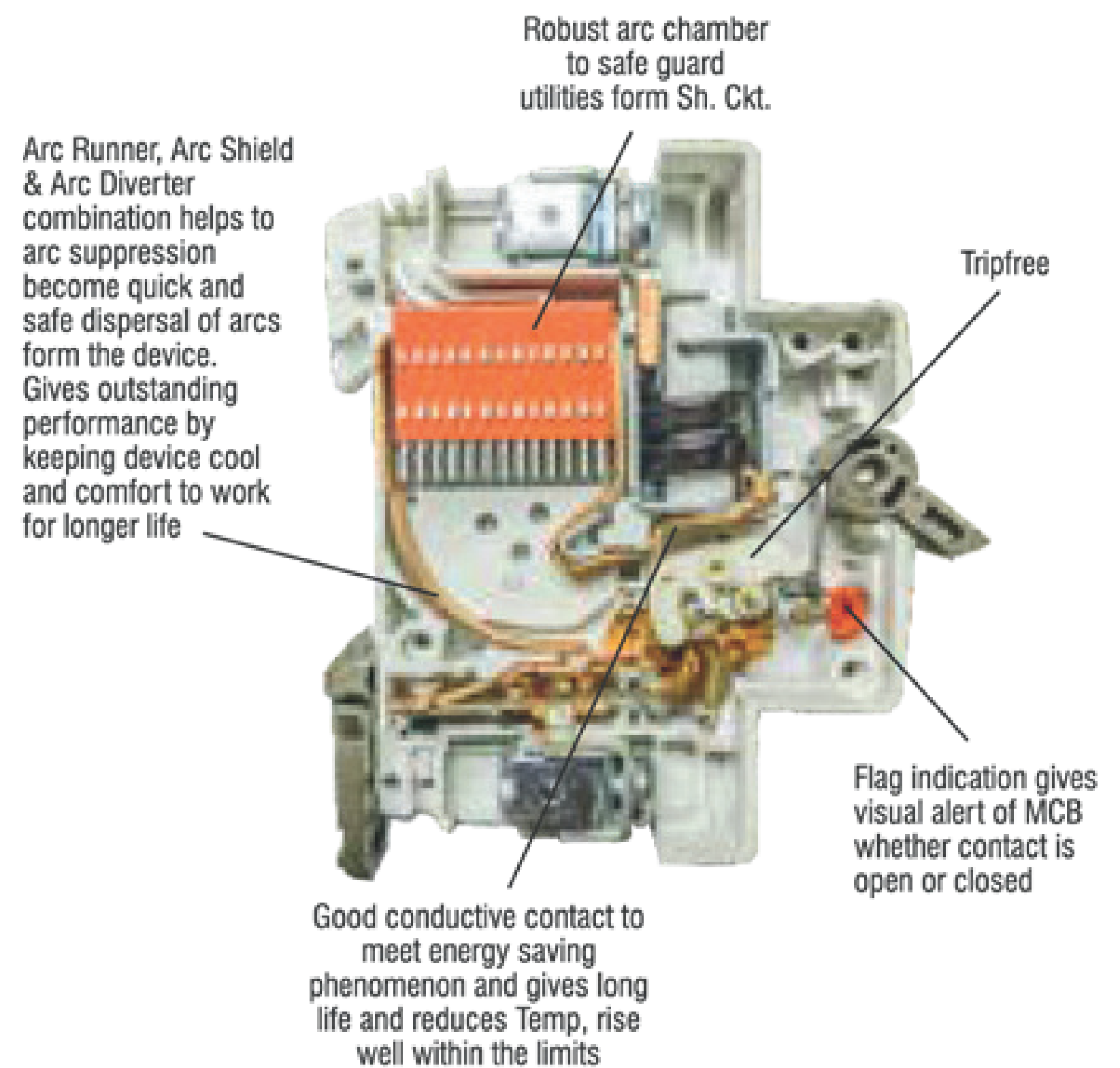
Axon- MCB's are safe and useful in protecting people and property against electrical overload and short circuit risks, in homes, office, factories and all types of business establishments. In the event of short circuit, MCB disconnects supply to the load within a fraction of a second. MCB's are also highly useful in preventing electrical fires.

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

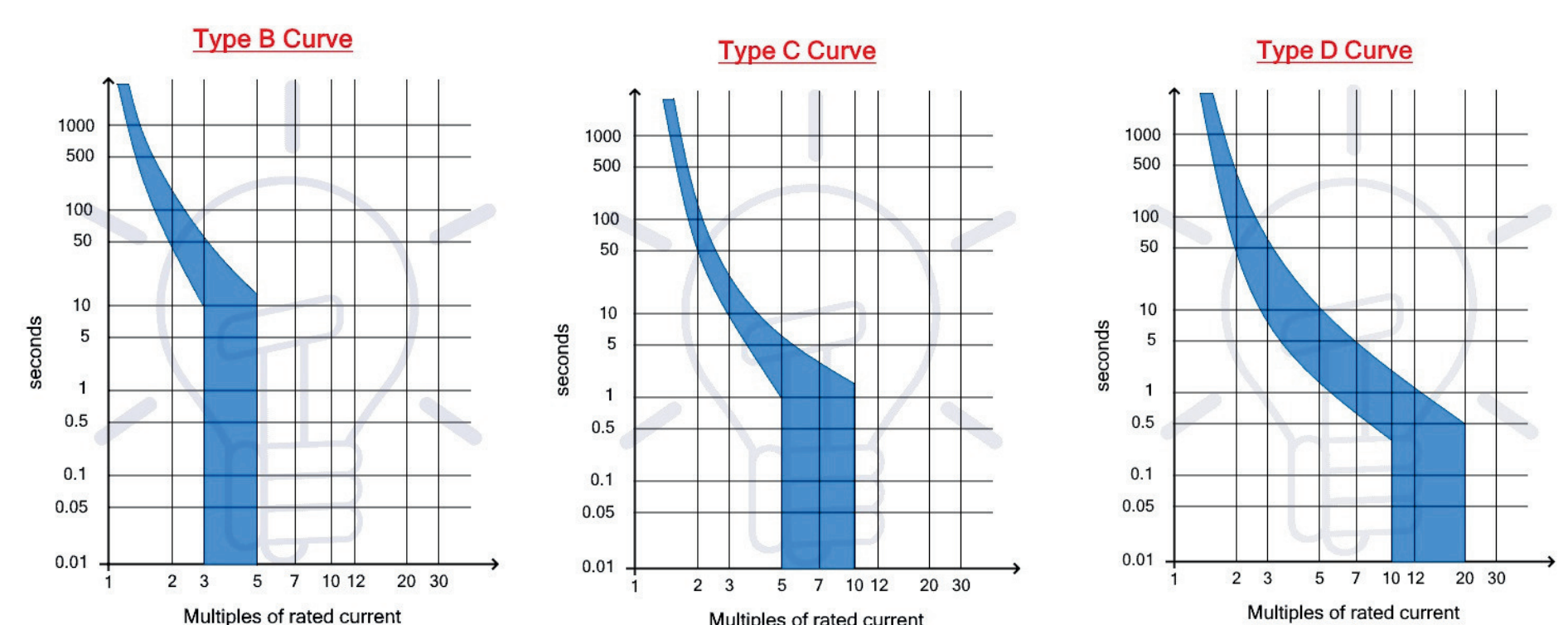
SELECTION PROCEDURE

Now that you are aware of the types of MCBs, it's crucial to analyze the kind that will best suit your household devices. Before selecting the MCB type, consider a few technical details. First, check the voltage and frequency at which the device functions, whether it is AC or DC. Next, note the starting current and trip characteristics. Additionally, look for extra features such as manual or automatic reset and safety approvals. Sometimes, operating conditions like temperature, corrosion, and radiation may influence the choice of the right MCB. While the current rating is a primary deciding factor, it is advisable to analyze other factors before investing in the MCB, as they play a vital role in preventing electrical hazards in your home.

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 government standard IS/IEC 60898-1:2015 has been taken care in designing our Axon MCB's. The low watt loss figures of our MCB contributes significantly to the energy saving norms of the international standards.

TECHNICAL SPECIFICATIONS

Product standard	IS/IEC 60898.1:2015		
System Certification	ISO 9001:2015/ISO 1400 1:2015/ ISO 45001:2018		
Electrical Features			
Poles	1P, 2P, 3P, 4P, SPN, TPN	1P, 2P, 3P, 4P, SPN, TPN	
Thermal-Magnetic release characteristics	B type	Ctype	
Rated Current	In	6-32A	
Rated Voltage	Ue	IP-240/415V, 2P, 3P, 4P, SPN-240V, TPN- 415V	1P- 240,415V,2P, 3P, 4P SPN-240V,TPN-415V
Insultion Voltage	Ui	500V	500V
Max.Working Voltage	Umax	453V	453V
Min.Working Voltage	Umin	12V	12V
Rated Impulse withstand Voltage	Uimp	6kV	6kV
Dielectric test Voltage		2kV	2kV
Rated Frequency		50Hz	
Pollution Degree		2	2
Electrical Life		>4000	>4000
Mechanical Life		>10000	>10000
Contact Position Indicator		YES	YES
Fault Indicator		NO	NO
Installation			
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.			
Terminal Connection Type		Cable/Busbar	Cable/Busbar
Cable size Max		25 sqmm	25 sqmm
Tightning Torque		3Nm	3Nm
Connection		Top/Bottom	Top/Bottom
Accessories			
Aux.Contact		YES	YES
Alarm Contact		YES	YES
Shunt release		YES	YES

SALIENT FEATURES

- Axon MCB's are rated at 10kA Icn to IEC 60898 & IEC-60947-2 trip types B,C & D
- MCB's are designed for 15kA Icn to IEC 60947-2,trip type B,C & D
- Product confirms to latest National & International standard
- 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.
- Available in fix onto standard Din Rail in all types of MCB
- Terminals can accept bus bars as well as cables for extern(up25 Sq.mm)

DIMENSIONS

