



Silica®

MCB, MCCB, RCB

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সিলিকা মিথিবা নরয়ারি ব্ৰিট চিট SILICA শিলিকা SILIKA ১৯৮১ আগ্নেয় ধাতব পদার্থবশিষে السيليكا



INTRODUCTION

Hello,

I have pleasure to introduce myself as the founder of the group of companies Called **"Silica Group"**, located at prime location in the country i.e, New Delhi, in INDIA.

The Group was established in the year 1991-1992 and have specialized the in the Manufacturing of a range of items used in Industrial & Domestic Sectors. Our product range include Whole range of Switch Gear, Wire & Cables, Electrical Accessories, Home Appliances, Public Address System, Mobile Phone Accessories, Electricity Generators, LED's, Etc. Further, our group extended its range of manufacturing Fans, Lighting Fittings, Electrical measuring instruments such as Voltmeter, Energy Meter etc. Encouraged by the good marked response to these products, the group embarked on further enlarging the scope to include manufacturing of the full range of Miniature Circuit Breakers (MCB's), water pump, etc. Today, Our group has established itself as one of the prime manufacturers and suppliers of Electrical Items, both in the domestic as well as in the Global Market. We feel proud to mention that our group is successful in capturing the export markets of the Gulf, African & Asian Countries.

Our manufacturing premises is a well-modernised plant with various special purpose tools & machines installed for manufacturing the various range of products. It is a matter of delight for me to mention that nearly around 100000 Nos. of components are being turned out from manufacturing units for their ultimate use in the end products.

In this highly competitive market, we are able to sustain and progressively register increased sales volume year after year, merely because of **TOTAL COMMITMENT to TOTAL QUALITY MANAGEMENT** at every stage of Manufacturing till the goods are delivered to our esteemed buyers. Quality audits and stringent checks are built into our quality control so as to maintain highest levels of quality of our products.

Looking forward of your esteemed organization & assuring you the best services at all times from our side.

With Regards,

AJAY KUMAR JAIN

EXPORT

TANZANIA SUDAN NIGERIA GHANA ETHIOPIA BANGLADESH KENYA KUWAIT
YEMEN QATAR CONGO OMAN SRI LANKA U.A.E. MYANMAR



सिलिका मिनीवा नरयतीव त्पत्तुत्तु SILICA சிலிக்கா SILIKA ر.ا.ا. آگنہے خاتہ پدارتھبشیشہ السيلیکا



Features

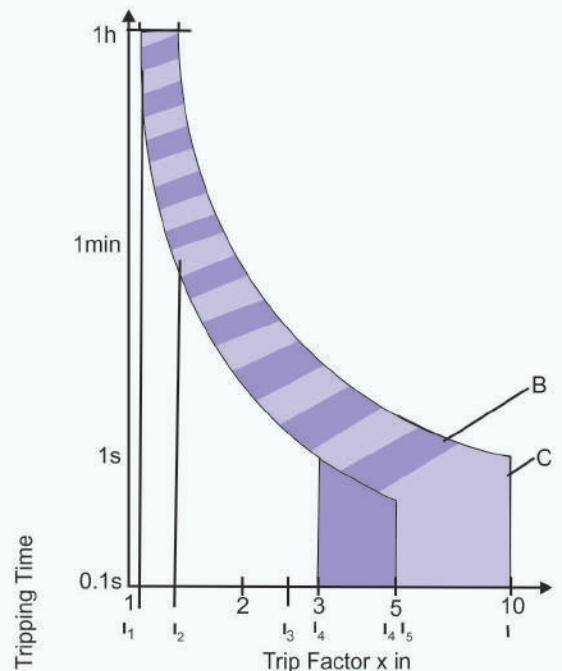
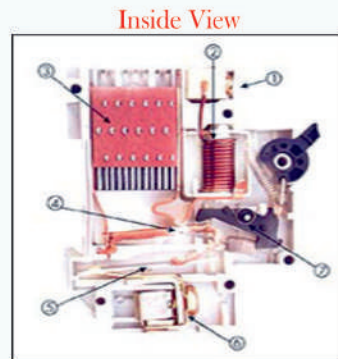
- ★ Rated current from 0.5 Amps. To 63 Amps. Available in B, C & D characteristics.
- ★ Mounting by a two-stop location clip, which allows easy adjustment while assembly on the DIN Rail.
- ★ Low let through energy due to extremely efficient current limiting action.
- ★ Fast acting light weight mechanism.
- ★ High reliability due to minimum number of mechanical components.
- ★ Extremely smooth operation due to use of self-lubricating high performance Engineering Thermoplastics.
- ★ Incorporates a recess on the incoming side for Direct mounting of busbars. The busbar is accommodated within the height of MCB, minimizing distribution board space.
- ★ "Box" type terminals with serrated terminal clamps for firm grip on conductors. Line terminals can take up to 35 SQ mm and load terminals up to 25 SQ mm copper or Aluminium cables directly.
- ★ Terminals are provided with capive screws.
- ★ Line terminals are designed to take simultaneously incoming cable and the busbar so that cable clamps on busbars are eliminated.
- ★ Padlocking facility in ON - OFF positions.

Design Advantage

- ★ Current limiting design.
- ★ Silver Graphite Contacts
- ★ Housing with flame retardant strength plastic.
- ★ Trip Free Mechanism.
- ★ Padlocking / Sealing Arrangement.
- ★ Special vents.

Technical Testing

- ★ Test Certificate issued by the Govt. Approved Lab.



Features MINIATURE CIRCUIT BREAKERS (10KA)

- ★ Current limiting type with high breaking capacity of 10 KA for the entire range.
- ★ As per IS 8828 : 1996 / IS 13947 part III specifications.
- ★ Terminal are "Finger Safe" to IP20 degree of protection.
- ★ Can be fitted in any of the regular distribution boards.
- ★ Potential free mounting clip.
- ★ Liberal Terminal design.
- ★ Trip-free mechanism.
- ★ Low - watt loss.

TYPE ★ M.C.B.s ★ Isolators ★ Change Over

Rating : 6 to 63 Amp.

Rated Voltage : 240/415 Volt, 40-60 Hz

Execution : SP.SPN.DP. TP. TPN.& FP

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TECHNICAL DATA

Specification	: IS:8828-1996, IS:13947(Pt-3)1996 & IEC : 898:95
Number of Pole	: 1, 1+N,2,3,3_N & 4 (SP,SPN, DP, TP, TPN & FP)
Characteristic	: B & C
Rated Current B	: 6 to 63 Amps.
C	: 0.5 to 63 Amps.
Rated Voltage AC	: 240/415V, 40-60 HZ
DC	: 60V (220V DC on request)
Short Circuit Interrupting Capacity	: 10000A
Mounting Position	: Optional
Mounting	: Snap-on-fixing on standard profile 35mmX7.5 DIN RAIL
Maximum Cable Cross Section	: 25mm ² for both the terminals
Degree of Protection	: IP 20
Reference Ambient Temperature	: 40.C
Mechanical Life	: 30,000 switching cycles
Electrical Life	: 10,000 switching cycles
MCB Type Isolator Rating	: 40,63 & 100 Amp.
No. Of Poles	: DP, TP & FP
Rated Voltage	: 240/415 V
Conforms to : IS	: 13947 (P-3)/IEC:947-3

CHARACTERISTIC CURVES

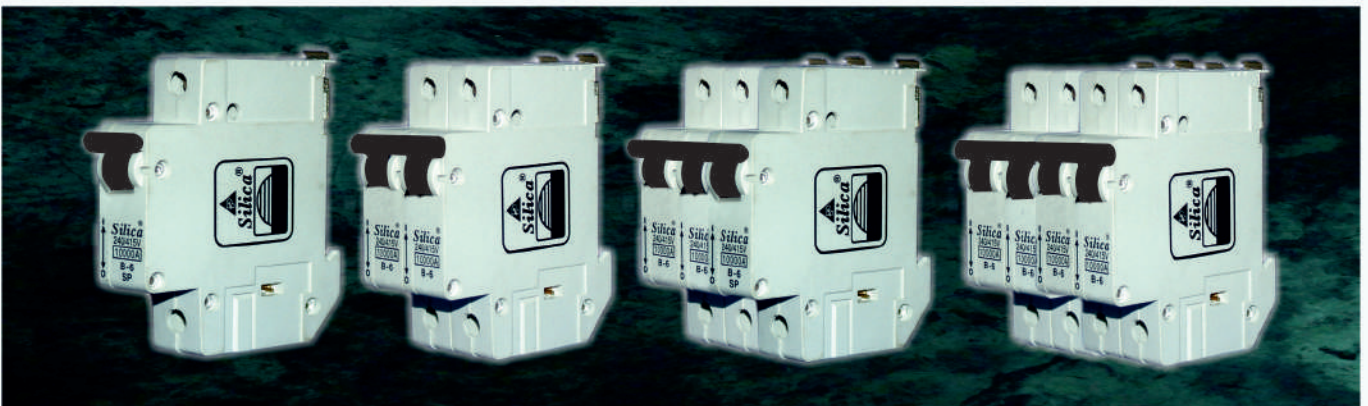
Silica MCB's are available with two types of characteristic tripping curves for different types of application s.

“B” CURVES :- LIGHTING CIRCUITS

Suitable for installation with a steady current. E.g;-electromagnetic release in circuits like heaters, ovens, geysers, GLS lamps, electric irons etc. These types are also used for protection of distribution equipment live wires, cables, metering equipment etc.

“C” CURVES :- MOTOR CIRCUITS

Suitable for high in rush current peaks and which require closer overhead protection. These include inductive loads as motors, air-conditioners, transformers, halogen lamps, sodium vapour lamps etc.



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MCB BOX/DB BOX/DISTRIBUTION BOARDS

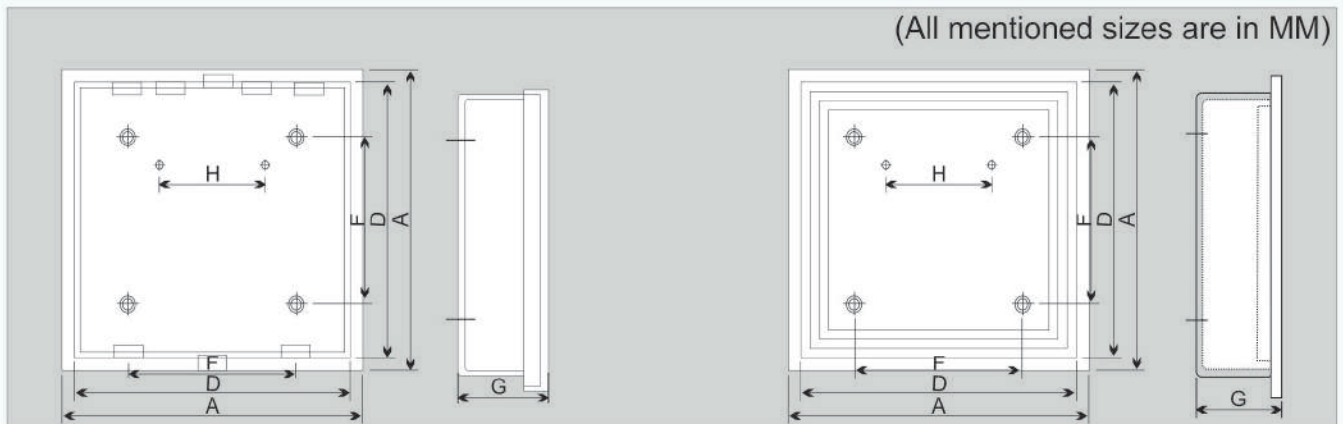


Silica Distribution Boards can house products like MCBs, RCCBs and load Isolators in any distribution network.

Silica Distribution systems offer you the following features :

- Lights but strong durable due to provision of hemming and special brackets
- Concentric Double Diameter type knockouts offer choice for different sizes of cables/ cable glands
- Knockouts at appropriate positions make Dbs suitable for wider applications minimizing sharp bends of cables.
- Adequate space provided for incoming and outgoing cables with 140 mm clearance between the DIN rails.
- Elegant look.

Specification	IS:8828-1996, IS:13947(Pt-3)1996 & IEC : 898:95
Dielectric	2.5 KA AC for 1 minute
Short Circuit strength	5 kA / 10 kA
Busbar	100A/ 200A
Incoming	40A / 63A or 100 A / 125A MCB/Isolators upto 125A / RCCB/ ELMCBS upto 63A / Four Pole Switch
System	DIN Rail Profile , conforming to IS:11039
Mounting	Surface or Flush Mounting
Outgoing	0.5A to 63A MCBS





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SILICA Catalogue



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