



Silica[®]

MINIATURE CIRCUIT BREAKER

www.silicaindia.com



50Hz



ISO 9001:2000
REGISTERED COMPANY

Silica सिलीका firestar फायरस्टार Silica सिलीका firestar फायरस्टार



INTRODUCTION



SILICA MINIATURE CIRCUIT BREAKER

Hello,

Starting from fledgling organization 15 years ago, SILICA Group of Companies has come a long way in establishing itself as a major player in the (MCBs) industry. Since inception SILICA has been setting standards in quality & safety with all its products. These MCBs are made as per the Indian and International Standards laid by various authorities. SILICA is proud to be associated with various utilities, Govt. Undertakings, Consultants and other private organizations.

Not to be satisfied with what it achieved over a span of 15 years, the group ventured into manufacturing and marketing of Electrical products such as PVC Conduit Pipe & Accessories, Electrical Accessories, Miniature Circuit Breakers (MCBs), Compact Fluorescent Lamps (CFLs), Switch Gear, Ceiling Fans, Wire & Cables, Kit kat fuse unit, Switch fuse unit, Bus Bar Chamber, **MCB Box**, AC Box, D P Switch, Energy Meter, Musical Bells, Light & Luminaries, Home Appliances etc.

SILICA INDUSTRY is one of the leading manufacturer of **MCBs** in the country. These **MCBs** are manufactured conforming to all recognised national and international specifications. SILICA INDUSTRY is equipped with most modern manufacturing and testing equipments. Each Product is made with the best of materials and skills. So that when you buy SILICA, you buy CONFIDENCE.

(Ajay Kr. jain)



50Hz

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 bus bars. The busbar is accommodated within the height of MCBs, 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 captive screws.
- ★ Line terminals are designed to take simultaneously incoming cable and the busbar so that cable clamps on bus bar are eliminated.
- ★ Padlocking facility in ON - OFF positions.

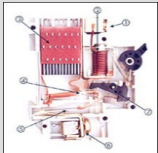
Design Aspects

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

Tested & CERTIFIED

- ★ Auth Lab Govt Of India APPROVED
- ★

Inside View



TECHNICAL DATA

Specification	: IS:8828-96 & 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	: SP, DP, TP, TPN & FP
Rated Voltage	: 240 /415 V
As Per : IS	: 13947 (P-3) / IEC:947-3

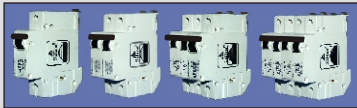
CHARACTERISTIC CURVES

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

"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.

CURVES :- MOTOR CIRCUITS



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

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	
Dielectric	2.5 KAAC for 1minute
Short Circuit	
strength	100A/ 200A
Incoming	
System	50/63A up to 100A/125A MCB/ Isolator upto 125A/RCCB/ELCB MCB upto 63A/ Four Pole switch
Mounting	
Outgoing	

