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**General terms of sale**

All list prices are in Indian Rupees.
MRP Prices are inclusive of Excise duty, local taxes.
Prices are subject to revision without notice.
This price list supersedes all the previous price lists.

The information, pictures, colours,and specifications contained in the catalog are presented as a general guide to the products and accessories offered by ABB Limited. Although every effort has been made to ensure that such information is correct and up to date,ABB Limited does not accept liability for damages of any kind resulting from the use of this catalog.

**Price list w. e. f. 20th March 2012**

# Line protection devices

Power and productivity for a better world™

# Contents



**Price List effective from March 20th 2012.**

This price list supersedes all the previous price lists.
Since product improvement is a continuous process, the data furnished in this brochure may undergo revision. For the latest information, you may contact our nearest sales office.

## ABB low voltage products

ABB is a global leader in power and automation technologies that enable utility and industry customers to improve performance while lowering environmental impact. ABB in India serves customers in process, manufacturing and consumer industries, utilities, the oil & gas sector and infrastructure markets through a wide manufacturing and marketing network.

ABB, a market leader in low voltage products and applications offers the widest range of high quality products and systems, backed by in-depth application know-how. In putting together its portfolio, ABB has taken care to address not only the core technologies but also systems and services that support customers throughout the life cycle of the product.

ABB's product range serves the diverse needs of customers, offering value for money and high levels of quality and reliability. These products are backed by the technological expertise of ABB's centres of excellence across the globe, each of which excel in a specific range of low voltage products.

ABB's low voltage products offering in India are designed, manufactured and tested in-house in conformance with requirements of the ISO 9000 series. These products conform to the latest IEC standards, EN specifications, national standards such as BS, VDE, etc., in addition to the "CE" "UL"marks.

## ABB's comprehensive range of Line Protection Deivces

The range of ABB line protection devices ranks amongst the most extensive on the market with a full range of innovative solutions for various applications, helping to optimise resources, reduce energy costs, boost productivity.

For all applications in residential,industrial and commercial installations ABB offers many functionalities like:
- protection and switching
- checking and monitoring
- control and programming

## System Pro M

System ProM is a modular system developed by ABB which, is capable of meeting the requirements of the most modern and up-to-date installations for low voltage applications.

The system is based on two main criteria:
- Complete functionality
- Wide range of devices which leads to increased safety for the user and greater diversification in command and load management.

Optimum sizing
The modular structure allows the internal structure of the switchboard to be used in the best possible way, reduces wiring operation and enhances functionality and aesthetics of the switchboards System proM offers a wide range of devices for basic functions like protection, command,measure and load management which characterise the low voltage electrical applications. Protection forms the basis of system proM which comprises of MCBs, RCCBs, RCBOs and a host of other modular devices. These miniature modular devices are technologically advanced, advanced, enable speedy installation and simplify maintenance. Each device in the System proM has been designed in accordance with strict criteria for safety and functionality to guarantee the the maximum operating safety even in the difficult environment conditions. Quality and reliability are built into every device to ensure total performance satisfaction, even in the most demanding applications.

## The System Pro M compact range

- Miniature Circuit Breakers
- Residual Current Devices
  - a) Residual current circuit breaker(RCCBs)
  - b) RCD blocks
  - c) Residual current circuit breaker with overcurrent protection(RCBOs)
  - d) Residual Current relays with external toroid
- Auxiliary elements and various accessories
- Surge Protection devices
- Command devices
- Load management devices
- Measurement devices

# Miniature Circuit Breaker (MCB) - SH200M

## Technical details

| Electrical Data | SH200 M |
|---|---|
| Standards | IS IEC 60898-1 |
| Poles | 1P, 2P, 3P, 4P, 1P +N, 3P +N |
| Tripping Characteristics | B, C, D |
| Rated Curent | 0.5A - 63 A |
| Rated Voltage | 1P: 230/ 400 V AC<br>1P +N: 230 V AC<br>2…4P: 400 V AC<br>3P +N: 400 V AC |
| Insulation Voltage | 250 V AC (Phase to Ground)<br>440V AC (Phase to Phase) |
| Max Operating Voltage | 1P: 253 V AC<br>2…4P: 440 V AC |
| Min Operating Voltage | 12 V AC |
| Rated Frequency | 50/ 60 Hz |
| Rated Short Circuit Capacity | 10kA |
| Energy Limiting Class | 3 |
| Over Voltage Category | III |
| Pollution Degree | 2 |
| Rated Impulse withstand Voltage | 4kV (Test Voltage 6.2kV at Sea Level,<br>5kV at 2,000 m) |
| Dielectric Test Voltage | 2kV (50/60 Hz, 1 min) |

## Features

### Housing Material

By using the state-of-the-art housing material, ABB is taking care of the environment. With the latest generation of thermoplastics it's possible to recycle the MCBs – especially the thermoplastic housing-material can be re-used. By using the latest generation of thermoplastics the material stability of all Compact Home MCBs is improved. Residential MCBs are free of halogens – no environmental pollution.

### Laser Printing

All printings of the Compact Home MCBs, like the approvals on the dome, the product identification, are printed by a laser. The laser printing ensures a friction, scratch and solvent resistant marking on the MCBs. Easy identification of the products in case of maintenance or replacements due to safe laser printing.

### Connection of Compact Home SH Series & Compact Pro M S Series

Compatibility with System pro M compactR is given in all kind of variations like insertion of one System pro M compactR MCB into an Installation with Compact Home components and Compact Home busbars. Also the combination of one Compact Home MCB with System pro M compact components and System pro M compact busbar are compatible.

### Terminals

The MCBs Compact Home are equipped with 25 mm2 cage terminals, a well proven and reliable technology. The cross wiring can easily be done by inserting the Compact Home busbars and then the incoming wires into one of the MCB's terminals. The terminals accept Compact Home busbars and conductors up to 16 mm2 together.

### CPI: Contact Position Indicator

All Compact Home MCBs are suited with a contact position indication (CPI) on the toggle. You can easily identify, if the MCB is in ON or OFF position –easy and safe maintenance work is possible.

## SH200 M - MCBs, C Characterisctics - 10 kA

| Product Code | Rating(A) | M.R.P. (Rs) | Packing |
|---|---|---|---|
| **Single Pole** | | | |
| SH201M-C 0.5 | 0.5 | 305 | 1/12 |
| SH201M-C 1 | 1 | 305 | 1/12 |
| SH201M-C 1.6 | 1.6 | 305 | 1/12 |
| SH201M-C 2 | 2 | 305 | 1/12 |
| SH201M-C 3 | 3 | 305 | 1/12 |
| SH201M-C 4 | 4 | 305 | 1/12 |
| SH201M-C 6 | 6 | 205 | 1/12 |
| SH201M-C 8 | 8 | 205 | 1/12 |
| SH201M-C 10 | 10 | 205 | 1/12 |
| SH201M-C 16 | 16 | 205 | 1/12 |
| SH201M-C 20 | 20 | 205 | 1/12 |
| SH201M-C 25 | 25 | 205 | 1/12 |
| SH201M-C 32 | 32 | 205 | 1/12 |
| SH201M-C 40 | 40 | 425 | 1/12 |
| SH201M-C 50 | 50 | 430 | 1/12 |
| SH201M-C 63 | 63 | 430 | 1/12 |
| **Single Pole & Neutral** | | | |
| SH201M-C 0.5 NA | 0.5 | 800 | 1/6 |
| SH201M-C 1 NA | 1 | 800 | 1/6 |
| SH201M-C 1.6 NA | 1.6 | 800 | 1/6 |
| SH201M-C 2 NA | 2 | 800 | 1/6 |
| SH201M-C 3 NA | 3 | 800 | 1/6 |
| SH201M-C 4 NA | 4 | 800 | 1/6 |
| SH201M-C 6 NA | 6 | 575 | 1/6 |
| SH201M-C 8 NA | 8 | 575 | 1/6 |
| SH201M-C 10 NA | 10 | 575 | 1/6 |
| SH201M-C 16 NA | 16 | 575 | 1/6 |
| SH201M-C 20 NA | 20 | 575 | 1/6 |
| SH201M-C 25 NA | 25 | 575 | 1/6 |
| SH201M-C 32 NA | 32 | 575 | 1/6 |
| SH201M-C 40 NA | 40 | 925 | 1/6 |
| SH201M-C 50 NA | 50 | 930 | 1/6 |
| SH201M-C 63 NA | 63 | 930 | 1/6 |
| **Double Pole** | | | |
| SH202M-C 0.5 | 0.5 | 830 | 1/6 |
| SH202M-C 1 | 1 | 830 | 1/6 |
| SH202M-C 1.6 | 1.6 | 830 | 1/6 |
| SH202M-C 2 | 2 | 830 | 1/6 |
| SH202M-C 3 | 3 | 830 | 1/6 |
| SH202M-C 4 | 4 | 830 | 1/6 |
| SH202M-C 6 | 6 | 592 | 1/6 |
| SH202M-C 8 | 8 | 592 | 1/6 |
| SH202M-C 10 | 10 | 592 | 1/6 |
| SH202M-C 16 | 16 | 592 | 1/6 |
| SH202M-C 20 | 20 | 592 | 1/6 |
| SH202M-C 25 | 25 | 592 | 1/6 |
| SH202M-C 32 | 32 | 592 | 1/6 |
| SH202M-C 40 | 40 | 960 | 1/6 |
| SH202M-C 50 | 50 | 970 | 1/6 |
| SH202M-C 63 | 63 | 970 | 1/6 |

| Product Code | Rating(A) | M.R.P (Rs) | Packing |
|---|---|---|---|
| **Triple Pole** | | | |
| SH203M-C 0.5 | 0.5 | 1,260 | 1/4 |
| SH203M-C 1 | 1 | 1,260 | 1/4 |
| SH203M-C 1.6 | 1.6 | 1,260 | 1/4 |
| SH203M-C 2 | 2 | 1,260 | 1/4 |
| SH203M-C 3 | 3 | 1,260 | 1/4 |
| SH203M-C 4 | 4 | 1,260 | 1/4 |
| SH203M-C 6 | 6 | 960 | 1/4 |
| SH203M-C 8 | 8 | 960 | 1/4 |
| SH203M-C 10 | 10 | 960 | 1/4 |
| SH203M-C 16 | 16 | 960 | 1/4 |
| SH203M-C 20 | 20 | 960 | 1/4 |
| SH203M-C 25 | 25 | 960 | 1/4 |
| SH203M-C 32 | 32 | 960 | 1/4 |
| SH203M-C 40 | 40 | 1,475 | 1/4 |
| SH203M-C 50 | 50 | 1,490 | 1/4 |
| SH203M-C 63 | 63 | 1,490 | 1/4 |
| **Triple Pole & Neutral** | | | |
| SH203M-C 0.5 NA | 0.5 | 1,550 | 1/3 |
| SH203M-C 1 NA | 1 | 1,550 | 1/3 |
| SH203M-C 1.6 NA | 1.6 | 1,550 | 1/3 |
| SH203M-C 2 NA | 2 | 1,550 | 1/3 |
| SH203M-C 3 NA | 3 | 1,550 | 1/3 |
| SH203M-C 4 NA | 4 | 1,550 | 1/3 |
| SH203M-C 6 NA | 6 | 1,245 | 1/3 |
| SH203M-C 8 NA | 8 | 1,245 | 1/3 |
| SH203M-C 10 NA | 10 | 1,245 | 1/3 |
| SH203M-C 16 NA | 16 | 1,245 | 1/3 |
| SH203M-C 20 NA | 20 | 1,245 | 1/3 |
| SH203M-C 25 NA | 25 | 1,245 | 1/3 |
| SH203M-C 32 NA | 32 | 1,245 | 1/3 |
| SH203M-C 40 NA | 40 | 1,840 | 1/3 |
| SH203M-C 50 NA | 50 | 1,860 | 1/3 |
| SH203M-C 63 NA | 63 | 1,860 | 1/3 |
| **Four Pole** | | | |
| SH204M-C 0.5 | 0.5 | 1,605 | 1/3 |
| SH204M-C 1 | 1 | 1,605 | 1/3 |
| SH204M-C 1.6 | 1.6 | 1,605 | 1/3 |
| SH204M-C 2 | 2 | 1,605 | 1/3 |
| SH204M-C 3 | 3 | 1,605 | 1/3 |
| SH204M-C 4 | 4 | 1,605 | 1/3 |
| SH204M-C 6 | 6 | 1,275 | 1/3 |
| SH204M-C 8 | 8 | 1,275 | 1/3 |
| SH204M-C 10 | 10 | 1,275 | 1/3 |
| SH204M-C 16 | 16 | 1,275 | 1/3 |
| SH204M-C 20 | 20 | 1,275 | 1/3 |
| SH204M-C 25 | 25 | 1,275 | 1/3 |
| SH204M-C 32 | 32 | 1,275 | 1/3 |
| SH204M-C 40 | 40 | 1,890 | 1/3 |
| SH204M-C 50 | 50 | 1,910 | 1/3 |
| SH204M-C 63 | 63 | 1,910 | 1/3 |

Note : The prices for B & D Characteristics will be published later.

# Miniature Circuit Breakers ( MCBs) - S270 & S260 series

**Type 'C' acc. to IS/IEC60898-1 : 2002 and Type 'D' acc. to IS/IEC60898-1: 2002 and as per IEC 60947-2**

| Electrical Data | S270, S260 |
|---|---|
| Standards | IS IEC 60898-1 |
| Poles | S270 - 1P, 2P, 3P, 4P, 1P+N, 3P+N |
| | S260 - 1P, 2P, 3P, 4P |
| Tripping Characteristics | C, D |
| Rated Curent | 0.5A - 63 A |
| Rated Voltage | 1P: 230/ 400 V AC |
| | 1P: 60V DC |
| | 1P +N: 230 V AC |
| | 2…4P: 400 V AC |
| | 2P: 110V DC |
| | 3P +N: 400 V AC |
| Insulation Voltage | 250 V AC (Phase to Ground) 440V |
| | AC (Phase to Phase) |
| Max Operating Voltage | 1P: 253 V AC 2…4P: 440 V AC |
| Min Operating Voltage | 12 V AC |
| Rated Frequency | 50/ 60 Hz |
| Rated Short Circuit Capacity | 10kA |
| Energy Limiting Class | 3 |
| Over Voltage Category | III |
| Pollution Degree | 2 |
| Rated Impulse withstand Voltage | 4kV (Test Voltage 6.2kV at Sea Level, |
| | 5kV at 2,000 m) |
| Dielectric Test Voltage | 2kV (50/60 Hz, 1 min) |

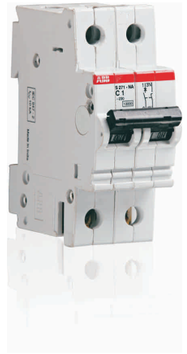
## Miniature Circuit Breaker - S270 range, Type"C"

### Single Pole

| Product Description | Rating (A) | M.R.P. (Rs) |
|---|---|---|
| S271-C0.5 | 0.5 | 307 |
| S271-C1 | 1 | 307 |
| S271-C1.6 | 1.6 | 307 |
| S271-C2 | 2 | 307 |
| S271-C3 | 3 | 307 |
| S271-C4 | 4 | 307 |
| S271-C6 | 6 | 209 |
| S271-C8 | 8 | 209 |
| S271-C10 | 10 | 209 |
| S271-C13 | 13 | 209 |
| S271-C16 | 16 | 209 |
| S271-C20 | 20 | 209 |
| S271-C25 | 25 | 209 |
| S271-C32 | 32 | 209 |
| S271-C40 | 40 | 430 |
| S271-C50 | 50 | 435 |
| S271-C63 | 63 | 435 |

### Double Pole

| Product Description | Rating (A) | M.R.P. (Rs) |
|---|---|---|
| S272-C0.5 | 0.5 | 835 |
| S272-C1 | 1 | 835 |
| S272-C1.6 | 1.6 | 835 |
| S272-C2 | 2 | 835 |
| S272-C3 | 3 | 835 |
| S272-C4 | 4 | 835 |
| S272-C6 | 6 | 606 |
| S272-C8 | 8 | 606 |
| S272-C10 | 10 | 606 |
| S272-C13 | 13 | 606 |
| S272-C16 | 16 | 606 |
| S272-C20 | 20 | 606 |
| S272-C25 | 25 | 606 |
| S272-C32 | 32 | 606 |
| S272-C40 | 40 | 970 |
| S272-C50 | 50 | 980 |
| S272-C63 | 63 | 980 |



### Triple Pole

| Product Description | Rating (A) | M.R.P. (Rs) |
|---|---|---|
| S273-C0.5 | 0.5 | 1,275 |
| S273-C1 | 1 | 1,275 |
| S273-C1.6 | 1.6 | 1,275 |
| S273-C2 | 2 | 1,275 |
| S273-C3 | 3 | 1,275 |
| S273-C4 | 4 | 1,275 |
| S273-C6 | 6 | 975 |
| S273-C8 | 8 | 975 |
| S273-C10 | 10 | 975 |
| S273-C13 | 13 | 975 |
| S273-C16 | 16 | 975 |
| S273-C20 | 20 | 975 |
| S273-C25 | 25 | 975 |
| S273-C32 | 32 | 975 |
| S273-C40 | 40 | 1,490 |
| S273-C50 | 50 | 1,500 |
| S273-C63 | 63 | 1,500 |

### Four Pole

| Product Description | Rating (A) | M.R.P. (Rs) |
|---|---|---|
| S274-C0.5 | 0.5 | 1,610 |
| S274-C1 | 1 | 1,610 |
| S274-C1.6 | 1.6 | 1,610 |
| S274-C2 | 2 | 1,610 |
| S274-C3 | 3 | 1,610 |
| S274-C4 | 4 | 1,610 |
| S274-C6 | 6 | 1,304 |
| S274-C8 | 8 | 1,304 |
| S274-C10 | 10 | 1,304 |
| S274-C13 | 13 | 1,304 |
| S274-C16 | 16 | 1,304 |
| S274-C20 | 20 | 1,304 |
| S274-C25 | 25 | 1,304 |
| S274-C32 | 32 | 1,304 |
| S274-C40 | 40 | 1,890 |
| S274-C50 | 50 | 1,910 |
| S274-C63 | 63 | 1,910 |

### Single Pole & Neutral

| Product Description | Rating (A) | M.R.P. (Rs) |
|---|---|---|
| S271-C0.5 Na | 0.5 | 815 |
| S271-C1 Na | 1 | 815 |
| S271-C1.6 Na | 1.6 | 815 |
| S271-C2 Na | 2 | 815 |
| S271-C3 Na | 3 | 815 |
| S271-C4 Na | 4 | 815 |
| S271-C6 Na | 6 | 600 |
| S271-C8 Na | 8 | 600 |
| S271-C10 Na | 10 | 600 |
| S271-C13 Na | 13 | 600 |
| S271-C16 Na | 16 | 600 |
| S271-C20 Na | 20 | 600 |
| S271-C25 Na | 25 | 600 |
| S271-C32 Na | 32 | 600 |
| S271-C40 Na | 40 | 950 |
| S271-C50 Na | 50 | 960 |
| S271-C63 Na | 63 | 960 |

### Triple Pole & Neutral

| Product Description | Rating (A) | M.R.P. (Rs) |
|---|---|---|
| S273-C0.5na | 0.5 | 1,606 |
| S273-C 1na | 1 | 1,606 |
| S273-C 1.6na | 1.6 | 1,606 |
| S273-C2 Na | 2 | 1,606 |
| S273-C3 Na | 3 | 1,606 |
| S273-C4 Na | 4 | 1,606 |
| S273-C6 Na | 6 | 1,293 |
| S273-C8 Na | 8 | 1,293 |
| S273-C10 Na | 10 | 1,293 |
| S273-C13 Na | 13 | 1,293 |
| S273-C16 Na | 16 | 1,293 |
| S273-C20 Na | 20 | 1,293 |
| S273-C25 Na | 25 | 1,293 |
| S273-C32 Na | 32 | 1,293 |
| S273-C40 Na | 40 | 1,890 |
| S273-C50 Na | 50 | 1,900 |
| S273-C63 Na | 63 | 1,900 |

# Miniature Circuit Breakers - S280 series

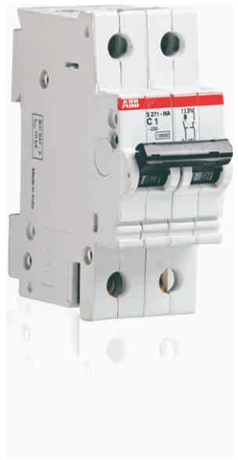
## Miniature Circuit Breaker - S260 range, Type"D"

### Single Pole

| Product Description | Rating (A) | M.R.P. (Rs) |
|---|---|---|
| S261-D0.5 | 0.5 | 315 |
| S261-D1 | 1 | 315 |
| S261-D1.6 | 1.6 | 315 |
| S261-D2 | 2 | 315 |
| S261-D3 | 3 | 315 |
| S261-D4 | 4 | 315 |
| S261-D6 | 6 | 265 |
| S261-D8 | 8 | 265 |
| S261-D10 | 10 | 265 |
| S261-D13 | 13 | 265 |
| S261-D16 | 16 | 265 |
| S261-D20 | 20 | 265 |
| S261-D25 | 25 | 265 |
| S261-D32 | 32 | 265 |
| S261-D40 | 40 | 455 |
| S261-D50 | 50 | 460 |
| S261-D63 | 63 | 460 |

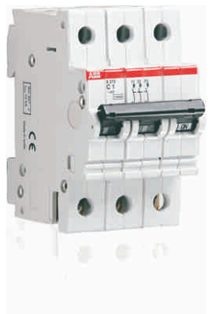
### Double Pole

| Product Description | Rating (A) | M.R.P. (Rs) |
|---|---|---|
| S262-D0.5 | 0.5 | 845 |
| S262-D1 | 1 | 845 |
| S262-D1.6 | 1.6 | 845 |
| S262-D2 | 2 | 845 |
| S262-D3 | 3 | 845 |
| S262-D4 | 4 | 845 |
| S262-D6 | 6 | 630 |
| S262-D8 | 8 | 630 |
| S262-D10 | 10 | 630 |
| S262-D13 | 13 | 630 |
| S262-D16 | 16 | 630 |
| S262-D20 | 20 | 630 |
| S262-D25 | 25 | 630 |
| S262-D32 | 32 | 630 |
| S262-D40 | 40 | 990 |
| S262-D50 | 50 | 1,000 |
| S262-D63 | 63 | 1,000 |



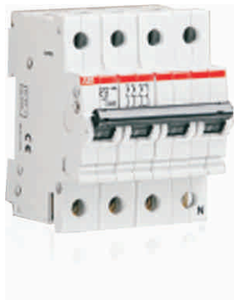
### Triple Pole

| Product Description | Rating (A) | M.R.P. (Rs) |
|---|---|---|
| S263-D0.5 | 0.5 | 1,300 |
| S263-D1 | 1 | 1,300 |
| S263-D1.6 | 1.6 | 1,300 |
| S263-D2 | 2 | 1,300 |
| S263-D3 | 3 | 1,300 |
| S263-D4 | 4 | 1,300 |
| S263-D6 | 6 | 1,005 |
| S263-D8 | 8 | 1,005 |
| S263-D10 | 10 | 1,005 |
| S263-D13 | 13 | 1,005 |
| S263-D16 | 16 | 1,005 |
| S263-D20 | 20 | 1,005 |
| S263-D25 | 25 | 1,005 |
| S263-D32 | 32 | 1,005 |
| S263-D40 | 40 | 1,550 |
| S263-D50 | 50 | 1,560 |
| S263-D63 | 63 | 1,560 |



### Four Pole

| Product Description | Rating (A) | M.R.P. (Rs) |
|---|---|---|
| S264-D0.5 | 0.5 | 1,660 |
| S264-D1 | 1 | 1,660 |
| S264-D1.6 | 1.6 | 1,660 |
| S264-D2 | 2 | 1,660 |
| S264-D3 | 3 | 1,660 |
| S264-D4 | 4 | 1,660 |
| S264-D6 | 6 | 1,345 |
| S264-D8 | 8 | 1,345 |
| S264-D10 | 10 | 1,345 |
| S264-D13 | 13 | 1,345 |
| S264-D16 | 16 | 1,345 |
| S264-D20 | 20 | 1,345 |
| S264-D25 | 25 | 1,345 |
| S264-D32 | 32 | 1,345 |
| S264-D40 | 40 | 1,950 |
| S264-D50 | 50 | 1,970 |
| S264-D63 | 63 | 1,970 |



## Features

- Breaking capacity - 6kA
- Tripping characteristics - C curve
- DC volatge for 1P = 60V and 2P,3P & 4P = 125V
- Suitable for -25° C to +55° C ambient temperatures
- Standards: Conforms to IEC60898,IEC60947-2

### Single Pole

| Product Description | Rating (A) | M.R.P. (Rs) |
|---|---|---|
| S281-C80 | 80 | 1,890 |
| S281-C100 | 100 | 2,005 |

### Double Pole

| Product Description | Rating (A) | M.R.P. (Rs) |
|---|---|---|
| S282-C80 | 80 | 3,695 |
| S282-C100 | 100 | 3,780 |

### Triple Pole

| Product Description | Rating (A) | M.R.P. (Rs) |
|---|---|---|
| S283-C80 | 80 | 5,455 |
| S283-C100 | 100 | 5,555 |

### Four Pole

| Product Description | Rating (A) | M.R.P. (Rs) |
|---|---|---|
| S284-C80 | 80 | 7,450 |
| S284-C100 | 100 | 7,485 |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# DC Miniature Circuit Breakers - S280UC series

## Features

- Breaking capacity - 6kA
- Tripping characteristics - K,Z curve
- DC volatge for 1P = 220V and 2P,3P & 4P = 400V as per IEC/EN 60898-2
- DC volatge for 1P = 220V and 2P,3P & 4P = 440V as per IEC/EN 60947-2
- Suitable for –25° C to +55° C ambient temperatures

## S280UC Series - K Curve

| Rating (A) | Single Pole ** | Double Pole ** | Triple Pole ** | Four Pole ** |
|---|---|---|---|---|
| | Type Reference | Type Reference | Type Reference | Type Reference |
| 0.2 | S281UC-K 0.2 | S282UC-K 0.2 | S283UC-K 0.2 | S284UC-K 0.2 |
| 0.3 | S281UC-K 0.3 | S282UC-K 0.3 | S283UC-K 0.3 | S284UC-K 0.3 |
| 0.5 | S281UC-K 0.5 | S282UC-K 0.5 | S283UC-K 0.5 | S284UC-K 0.5 |
| 0.75 | S281UC-K 0.75 | S282UC-K 0.75 | S283UC-K 0.75 | S284UC-K 0.75 |
| 1 | S281UC-K 1 | S282UC-K 1 | S283UC-K 1 | S284UC-K 1 |
| 1.4 | S281UC-K 1.4 | S282UC-K 1.4 | S283UC-K 1.4 | S284UC-K 1.4 |
| 2 | S281UC-K 2 | S282UC-K 2 | S283UC-K 2 | S284UC-K 2 |
| 3 | S281UC-K 3 | S282UC-K 3 | S283UC-K 3 | S284UC-K 3 |
| 4 | S281UC-K 4 | S282UC-K 4 | S283UC-K 4 | S284UC-K 4 |
| 6 | S281UC-K 6 | S282UC-K 6 | S283UC-K 6 | S284UC-K 6 |
| 8 | S281UC-K 8 | S282UC-K 8 | S283UC-K 8 | S284UC-K 8 |
| 10 | S281UC-K 10 | S282UC-K 10 | S283UC-K 10 | S284UC-K 10 |
| 16 | S281UC-K 16 | S282UC-K 16 | S283UC-K 16 | S284UC-K 16 |
| 20 | S281UC-K 20 | S282UC-K 20 | S283UC-K 20 | S284UC-K 20 |
| 25 | S281UC-K 25 | S282UC-K 25 | S283UC-K 25 | S284UC-K 25 |
| 32 | S281UC-K 32 | S282UC-K 32 | S283UC-K 32 | S284UC-K 32 |
| 40 | S281UC-K 40 | S282UC-K 40 | S283UC-K 40 | S284UC-K 40 |
| 50 | S281UC-K 50 | S282UC-K 50 | S283UC-K 50 | S284UC-K 50 |
| 63 | S281UC-K 63 | S282UC-K 63 | S283UC-K 63 | S284UC-K 63 |

## S280UC Series - Z Curve

| Rating (A) | Single Pole ** | Double Pole ** | Triple Pole ** | Four Pole ** |
|---|---|---|---|---|
| | Type Reference | Type Reference | Type Reference | Type Reference |
| 0.2 | S281UC-Z 0.2 | S282UC-Z 0.2 | S283UC-Z 0.2 | S284UC-Z 0.2 |
| 0.3 | S281UC-Z 0.3 | S282UC-Z 0.3 | S283UC-Z 0.3 | S284UC-Z 0.3 |
| 0.5 | S281UC-Z 0.5 | S282UC-Z 0.5 | S283UC-Z 0.5 | S284UC-Z 0.5 |
| 0.75 | S281UC-Z 0.75 | S282UC-Z 0.75 | S283UC-Z 0.75 | S284UC-Z 0.75 |
| 1 | S281UC-Z 1 | S282UC-Z 1 | S283UC-Z 1 | S284UC-Z 1 |
| 1.4 | S281UC-Z 1.4 | S282UC-Z 1.4 | S283UC-Z 1.4 | S284UC-Z 1.4 |
| 2 | S281UC-Z 2 | S282UC-Z 2 | S283UC-Z 2 | S284UC-Z 2 |
| 3 | S281UC-Z 3 | S282UC-Z 3 | S283UC-Z 3 | S284UC-Z 3 |
| 4 | S281UC-Z 4 | S282UC-Z 4 | S283UC-Z 4 | S284UC-Z 4 |
| 6 | S281UC-Z 6 | S282UC-Z 6 | S283UC-Z 6 | S284UC-Z 6 |
| 8 | S281UC-Z 8 | S282UC-Z 8 | S283UC-Z 8 | S284UC-Z 8 |
| 10 | S281UC-Z 10 | S282UC-Z 10 | S283UC-Z 10 | S284UC-Z 10 |
| 16 | S281UC-Z 16 | S282UC-Z 16 | S283UC-Z 16 | S284UC-Z 16 |
| 20 | S281UC-Z 20 | S282UC-Z 20 | S283UC-Z 20 | S284UC-Z 20 |
| 25 | S281UC-Z 25 | S282UC-Z 25 | S283UC-Z 25 | S284UC-Z 25 |
| 32 | S281UC-Z 32 | S282UC-Z 32 | S283UC-Z 32 | S284UC-Z 32 |
| 40 | S281UC-Z 40 | S282UC-Z 40 | S283UC-Z 40 | S284UC-Z 40 |
| 50 | S281UC-Z 50 | S282UC-Z 50 | S283UC-Z 50 | S284UC-Z 50 |
| 63 | S281UC-Z 63 | S282UC-Z 63 | S283UC-Z 63 | S284UC-Z 63 |

** Prices available on request

# Isolators - E200

## Features

- Fast removal without dismantling of the busbar
- Captive screws with recessed/slotted head, Pozidriv size 2
- Locking device as accessories for unauthorized ON/OFF
- Utilization Category AC-22A and DC-21B only for 1..2pole devices
- Short Circuit withstand Capacity: 6kA for rated current 125A
- Suitable for isolation
- Suitable for –25° C to +55° C ambient temperatures
- Standards: Conforms to EN 60715

## Double Pole

| Product Description | Rating (A) | M.R.P. (Rs) |
|---|---|---|
| E202/32 | 32 | 355 |
| E202/45 | 45 | 385 |
| E202/63 | 63 | 510 |
| E202/80 | 80 | 590 |
| E202/100 | 100 | 630 |
| E202/125 | 125 | 690 |

## Four Pole

| Product Description | Rating (A) | M.R.P. (Rs) |
|---|---|---|
| E204/32 | 32 | 690 |
| E204/45 | 45 | 855 |
| E204/63 | 63 | 935 |
| E204/80 | 80 | 985 |
| E204/100 | 100 | 1,005 |
| E204/125 | 125 | 1,190 |

## Triple Pole

| Product Description | Rating (A) | M.R.P. (Rs) |
|---|---|---|
| E203/32 | 32 | 605 |
| E203/45 | 45 | 665 |
| E203/63 | 63 | 730 |
| E203/80 | 80 | 760 |
| E203/100 | 100 | 840 |
| E203/125 | 125 | 980 |

# MCB Accessories

| Product Description | Product Code | M.R.P. (Rs) |
|---|---|---|
| Aux. contact block 1NO + 1NC | S2-H11 | 630 |
| Aux. contact block 2NC | S2-H02 | 615 |
| Aux. contact block 2NO | S2-H20 | 630 |
| "Shunt Trip Mechanism 12 - 64V AC 12 - 110V AC" | S2-A1 | 1,850 |
| "Shunt Trip Mechanism 125 - 415V AC 200V DC" | S2-A2 | 1,850 |
| Under Voltage tripping Mechanism (24V AC/DC) | S2-UA 24 | 4,125 |
| Under Voltage tripping Mechanism (48V AC/DC) | S2-UA 48 | 4,125 |
| Under Voltage tripping Mechanism (110V AC/DC) | S2-UA 110 | 4,125 |
| Under Voltage tripping Mechanism (220V AC/DC) | S2-UA 220 | 4,125 |
| Under Voltage tripping Mechanism (380V AC/DC) | S2-UA 380 | 4,125 |
| Under Voltage tripping Mechanism (380V AC/DC) | S2-UA 380 | 4,125 |
| Signalling contact + Auxilairy Contact | S2-S/H | 1,120 |
| Pad Lock adaptor | SA1 | 590 |
| Pad Lock adaptor with lock and key | SA3 | 940 |


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# High Performance MCB as per IEC 60947-2

### A question of Power - Not just B-C-D: The S800 range.

The extensive S800 range provides the right High Performance MCB for high rated breaking capacities and many tripping characteristics.

### Specific Features

- Compiles to standards IEC 60947-2 & EN 60898-1
- Compact size : One size up to 125A
- Compact performance :Selective and back-up characteristics
- Does not let go: The interchangeable terminal adapter.Cage terminals or ring lugs
- On the safe side: Operating status display.
- Simple and flexible: Accessories fitted by the customer
- Identical accessories for a broad range of applications

### The S800 range

- S800S (50kA) upto 125A
- S800N (36kA) upto 125A
- S800C (25kA) upto 125A
- S800B (16kA) upto 125A (New)

### S800B MCB - 16kA, "C" Curve

#### Single Pole

| Product Description | Rating (A) | M.R.P. (Rs) |
|---|---|---|
| S801B-C80 | 80 | 1,900 |
| S801B-C100 | 100 | 2,010 |
| S801B-C125 | 125 | 1,975 |

#### Double Pole

| Product Description | Rating (A) | M.R.P. (Rs) |
|---|---|---|
| S802B-C80 | 80 | 3,950 |
| S802B-C100 | 100 | 4,050 |
| S802B-C125 | 125 | 4,200 |

#### Triple Pole

| Product Description | Rating (A) | M.R.P. (Rs) |
|---|---|---|
| S803B-C80 | 80 | 5,850 |
| S803B-C100 | 100 | 5,960 |
| S803B-C125 | 125 | 6,630 |

#### Four Pole

| Product Description | Rating (A) | M.R.P. (Rs) |
|---|---|---|
| S804B-C80 | 80 | 7,850 |
| S804B-C100 | 100 | 8,025 |
| S804B-C125 | 125 | 8,675 |

# S800 Accessories

| Product Description | Product Code | M.R.P. (Rs) |
|---|---|---|
| Auxiliary Contact | S800-AUX | |
| Auxiliary /Signal Contact | S800-AUX / ALT | |
| Rotary Drive for 3 - 4 pole MCB | S800-RD | Upon Request |
| Anthracite Rotary Handle | S800-RHE-H | |
| Axial Extension rod 500mm for Rotary Handle Extension | S800-RHE-S | |

# Residual Current circuit Breaker(RCCBs)

The ABB range of RCCBs give protection against earth leakage in case of direct and indirect contact to live parts. RCCBs are used for protection of earth leakage.

### Features

- Complies to standards IS 12640-1 : 2008 & IEC 61008-1 : 1996. F200 RCCB range complies to IEC 61008.
- Available in two series F360 series and F200 range
- Rated breaking capacity Icn: 6kA for F360 & 10kA for F200 in 2P & 4P
- Availale in AC , A & AP-R class to suit different applications
- Suitable for isolation

### F360 Range

#### Double Pole

| Rating (A) | Rated Residual Current (mA) | Product Description | M.R.P. (Rs) |
|---|---|---|---|
| 25 | 30 | F362 AC25/.03 | 2,220 |
| 25 | 100 | F362 AC25/.1 | 2,300 |
| 25 | 300 | F362 AC25/.3 | 2,300 |
| 40 | 30 | F362 AC40/.03 | 2,610 |
| 40 | 100 | F362 AC40/.1 | 2,710 |
| 40 | 300 | F362 AC40/.3 | 2,710 |
| 63 | 30 | F362 AC63/.03 | 3,020 |
| 63 | 100 | F362 AC63/.1 | 3,175 |
| 63 | 300 | F362 AC63/.3 | 3,175 |

#### Four Pole

| Rating (A) | Rated Residual Current (mA) | Product Description | M.R.P. (Rs) |
|---|---|---|---|
| 25 | 30 | F364 AC25/.03 | 2,925 |
| 25 | 100 | F364 AC25/.1 | 3,045 |
| 25 | 300 | F364 AC25/.3 | 3,045 |
| 40 | 30 | F364 AC40/.03 | 2,990 |
| 40 | 100 | F364 AC40/.1 | 3,085 |
| 40 | 300 | F364 AC40/.3 | 3,085 |
| 63 | 30 | F364 AC63/.03 | 3,455 |
| 63 | 100 | F364 AC63/.1 | 3,625 |
| 63 | 300 | F364 AC63/.3 | 3,625 |

### F200 Range (80 - 125A)

#### Double Pole

| Rating (A) | Rated Residual Current (mA) | Product Description | M.R.P. (Rs) |
|---|---|---|---|
| 80 | 30 | F202 80-30mA | 6,010 |
| 80 | 100 | F202 80-100mA | 6,640 |
| 80 | 300 | F202 80-300mA | 6,640 |
| 100 | 30 | F202 100-30mA | 6,145 |
| 100 | 100 | F202 100-100mA | 6,800 |
| 100 | 300 | F202 100-300mA | 6,800 |

#### Four Pole

| Rating (A) | Rated Residual Current (mA) | Product Description | M.R.P. (Rs) |
|---|---|---|---|
| 80 | 30 | F204 80-30mA | 6,400 |
| 80 | 100 | F204 80-100mA | 6,600 |
| 80 | 300 | F204 80-300mA | 6,600 |
| 100 | 30 | F204 100-30mA | 7,580 |
| 100 | 100 | F204 100-100mA | 7,680 |
| 100 | 300 | F204 100-300mA | 7,680 |
| 125 | 30 | F204 125-30mA | Upon Req. |
| 125 | 100 | F204 125-100mA | Upon Req. |
| 125 | 300 | F204 125-300mA | Upon Req. |


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# DS 200 range of RCBOs

ABB expands the offering of its RCD range with the new residual current circuit breaker with overload protection, called the DS200 series.

The new RCBO range includes two series:
- 2P RCBO in 2 modules - DS202C series
- 1P+N RCBO in 2 modules - DS201 series

## Features

- Compiles to standard to IEC/EN 61009
- DS201 available in 4.5kA,6kA & 10kA breaking capacity.
- Available in AC, A and APR types to meet all protection needs
- B and C characteristics with rated current up to 40 A available on all the versions (4,5 kA, 6 kA and 10 kA)
- Contact Position Indicator (CPI) to indicate the exact information of the circuit-breaker status
- Equipped with an RFid tag accor. to standard ISO/IEC FCD 15693-3 to authenticate the product.
- Bidirectional cylinder-lift terminals for easier the parallel feed

## 10kA AC Type - DS200M

### Single Pole & Neutral

| Rating (A) | Rated Residual Current (mA) | Product Description | M.R.P. (Rs) |
|---|---|---|---|
| 6 | 30 | DS201 M C6 AC30 | 3,122 |
| 6 | 100 | DS201 M C6 AC100 | 3,159 |
| 6 | 300 | DS201 M C6 AC300 | 3,218 |
| 10 | 30 | DS201 M C10 AC30 | 3,122 |
| 10 | 100 | DS201 M C10 AC100 | 3,159 |
| 10 | 300 | DS201 M C10 AC300 | 3,218 |
| 16 | 30 | DS201 M C16 AC30 | 3,122 |
| 16 | 100 | DS201 M C16 AC100 | 3,159 |
| 16 | 300 | DS201 M C16 AC300 | 3,218 |
| 20 | 30 | DS201 M C20 AC30 | 3,122 |
| 20 | 100 | DS201 M C20 AC100 | 3,159 |
| 20 | 300 | DS201 M C20 AC300 | 3,218 |
| 25 | 30 | DS201 M C25 AC30 | 3,122 |
| 25 | 100 | DS201 M C25 AC100 | 3,159 |
| 25 | 300 | DS201 M C25 AC300 | 3,218 |
| 32 | 30 | DS201 M C32 AC30 | 3,346 |
| 32 | 100 | DS201 M C32 AC100 | 3,289 |
| 32 | 300 | DS201 M C32 AC300 | 3,350 |
| 40 | 30 | DS201 M C40 AC30 | 3,817 |
| 40 | 100 | DS201 M C40 AC100 | 3,764 |
| 40 | 300 | DS201 M C40 AC300 | 3,973 |

## 6kA AC Type - RCBO Ds200

### Single Pole & Neutral

| Rating (A) | Rated Residual Current (mA) | Product Description | M.R.P. (Rs) |
|---|---|---|---|
| 6 | 30 | DS201 C6 AC30 | 2,966 |
| 6 | 100 | DS201 C6 AC100 | 3,001 |
| 6 | 300 | DS201 C6 AC300 | 3,057 |
| 10 | 30 | DS201 C10 AC30 | 2,966 |
| 10 | 100 | DS201 C10 AC100 | 3,001 |
| 10 | 300 | DS201 C10 AC300 | 3,057 |
| 16 | 30 | DS201 C16 AC30 | 2,966 |
| 16 | 100 | DS201 C16 AC100 | 3,001 |
| 16 | 300 | DS201 C16 AC300 | 3,057 |
| 20 | 30 | DS201 C20 AC30 | 2,966 |
| 20 | 100 | DS201 C20 AC100 | 3,001 |
| 20 | 300 | DS201 C20 AC300 | 3,057 |
| 25 | 30 | DS201 C25 AC30 | 2,966 |
| 25 | 100 | DS201 C25 AC100 | 3,001 |
| 25 | 300 | DS201 C25 AC300 | 3,057 |
| 32 | 30 | DS201 C32 AC30 | 3,179 |
| 32 | 100 | DS201 C32 AC100 | 3,125 |
| 32 | 300 | DS201 C32 AC300 | 3,183 |
| 40 | 30 | DS201 C40 AC30 | 3,626 |
| 40 | 100 | DS201 C40 AC100 | 3,576 |
| 40 | 300 | DS201 C40 AC300 | 3,774 |

## 10kA A Type - DS200M

### Single Pole & Neutral

| Rating (A) | Rated Residual Current (mA) | Product Description | M.R.P. (Rs) |
|---|---|---|---|
| 6 | 30 | DS201 C6 A30 | 5,515 |
| 6 | 100 | DS201 C6 A100 | 5,635 |
| 6 | 300 | DS201 C6 A300 | 5,635 |
| 10 | 30 | DS201 C10 A30 | 5,515 |
| 10 | 100 | DS201 C10 A100 | 5,635 |
| 10 | 300 | DS201 C10 A300 | 5,635 |
| 16 | 30 | DS201 C16 A30 | 5,515 |
| 16 | 100 | DS201 C16 A100 | 5,635 |
| 16 | 300 | DS201 C16 A300 | 5,635 |
| 20 | 30 | DS201 C20 A30 | 5,515 |
| 20 | 100 | DS201 C20 A100 | 5,635 |
| 20 | 300 | DS201 C20 A300 | 5,635 |
| 25 | 30 | DS201 C25 A30 | 5,515 |
| 25 | 100 | DS201 C25 A100 | 5,635 |
| 25 | 300 | DS201 C25 A300 | 5,635 |
| 32 | 30 | DS201 C32 A30 | 5,745 |
| 32 | 100 | DS201 C32 A100 | 5,870 |
| 32 | 300 | DS201 C32 A300 | 5,870 |
| 40 | 30 | DS201 C40 A30 | 7,035 |
| 40 | 100 | DS201 C40 A100 | 7,070 |
| 40 | 300 | DS201 C40 A300 | 7,070 |

## 10kA, AC Type - Ds670

### Four Pole

| Rating (A) | Rated Residual Current (mA) | Product Description | M.R.P. (Rs) |
|---|---|---|---|
| 25 | 30 | DS674 C25-30mA/AC | 3,680 |
| 25 | 300 | DS674 C25-300mA/AC | 3,922 |
| 32 | 30 | DS674 C32-30mA/AC | 3,680 |
| 32 | 300 | DS674 C32-300mA/AC | 3,922 |
| 40 | 30 | DS674 C40-30mA/AC | 3,738 |
| 40 | 300 | DS674 C40-300mA/AC | 4,004 |
| 63 | 30 | DS674 C63-30mA/AC | 4,455 |
| 63 | 300 | DS674 C63-300mA/AC | 4,571 |

## Accessories for F200,DS200 series

| Product Description | Product Code |
|---|---|
| Auxiliary Contact/signal contact 1CO | S2C-S/H6R |
| Auxiliary contact 1NO/1NC to be mounted on left side | S2C-H11L |
| Auxiliary contact 2NO to be mounted on left side | S2C-H20L |
| Auxiliary contact 2NC to be mounted on left side | S2C-H02L |
| Signal/auxiliary contact for F200 125A | F2 125-S/H |
| Shunt Trip AC/DC 12.....60V | F2C-A1 |
| Shunt Trip AC110.....415V / DC110.....250V | F2C-A2 |
| Undervoltage Release 24V AC | S2C-UA 24 AC |
| Undervoltage Release 24V AC | S2C-UA 24 DC |
| Undervoltage Release 48V AC | S2C-UA 48 AC |
| Undervoltage Release 48V AC | S2C-UA 48 DC |
| Undervoltage Release 110V AC | S2C-UA 110 AC |
| Undervoltage Release 110V AC | S2C-UA 110 DC |
| Undervoltage Release 230V AC | S2C-UA 230 AC |
| Undervoltage Release 230V AC | S2C-UA 230 DC |
| Undervoltage Release 400V AC | S2C-UA 400 AC |
| Undervoltage Release 400V AC | S2C-UA 400 DC5 |

** Price available on request

# Higher Rating Residual Current Devices for S800 Series

ABB offer residual current devices for S800 MCBs with higher breaking capacities.The residual current are available in the DDA block version and RCBO version.

The DDA 800 RCD blocks for protecting people and electrical installation are useful when a higher breaking capacity is required.

Assembling a DDA 800 RCD block with an S 800N or S800 S MCB creates an RCBO with a breaking capacity of 36kA and 50kA respectively.

The RCD block must be mounted on the right side of the MCB,so that the available accessories can be mounted on the left side.

DDA 800 RCD blocks are available in AC and A,A AP-R(high immunity) and A selective types in 30mA,300mA and 500mA DS 800 RCBOs are available , only in the size of 125A,in A,AP-R(high immunity) and A selective types.

## DS800 RCBOs

### DDA 800 AC Type for MCBs S800

| No. of Poles | Rated | Earth Leakage Current (A) | Type Reference** Sensitivity (mA) |
|---|---|---|---|
| 2 | 63 | 30 | DDA802AC-63/0.03 |
| 2 | 63 | 300 | DDA802AC-63/0.3 |
| 3 | 63 | 30 | DDA803AC-63/0.03 |
| 3 | 63 | 300 | DDA803AC-63/0.3 |
| 4 | 63 | 30 | DDA804AC-63/0.03 |
| 4 | 63 | 300 | DDA804AC-63/0.3 |

### DDA 800 A Type for MCBs S800

| No. of Poles | Rated | Earth Leakage Current (A) | Type Reference** Sensitivity (mA) |
|---|---|---|---|
| 2 | 63 | 30 | DDA802A-63/0.03 |
| 2 | 63 | 300 | DDA802A-63/0.3 |
| 2 | 100 | 300 | DDA802A-100/0.3 |
| 4 | 63 | 30 | DDA804A-63/0.03 |
| 4 | 63 | 300 | DDA804A-63/0.3 |
| 4 | 100 | 300 | DDA804A-100/0.3 |

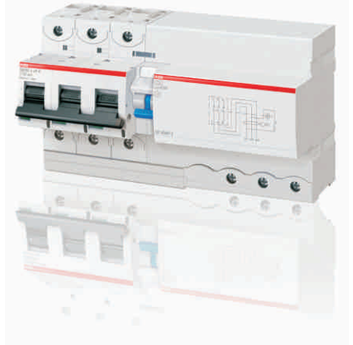
### DS800S,A type RCBOs (Icu = 50kA)

| No. of Poles | Curve | Rated Current (A) | Earth Leakage Sensitivity (mA) | Type Reference** |
|---|---|---|---|---|
| 2 | B | 125 | 300 | DS802S-B125/0.3A |
| 2 | C | 125 | 300 | DS802S-C125/0.3A |
| 2 | D | 125 | 300 | DS802S-D125/0.3A |
| 2 | K | 125 | 300 | DS802S-K125/0.3A |
| 3 | B | 125 | 300 | DS803S-B125/0.3A |
| 3 | C | 125 | 300 | DS803S-C125/0.3A |
| 3 | D | 125 | 300 | DS803S-D125/0.3A |
| 3 | K | 125 | 300 | DS803S-K125/0.3A |
| 4 | B | 125 | 300 | DS804S-B125/0.3A |
| 4 | C | 125 | 300 | DS804S-C125/0.3A |
| 4 | D | 125 | 300 | DS804S-D125/0.3A |
| 4 | K | 125 | 300 | DS804S-K125/0.3A |

### DS800S,A type RCBOs (Icu = 36kA)

| No. of Poles | Curve | Rated Current (A) | Earth Leakage Sensitivity (mA) | Type Reference** |
|---|---|---|---|---|
| 2 | B | 125 | 300 | DS802N-B125/0.3A |
| 2 | C | 125 | 300 | DS802N-C125/0.3A |
| 2 | D | 125 | 300 | DS802N-D125/0.3A |
| 3 | B | 125 | 300 | DS803N-B125/0.3A |
| 3 | C | 125 | 300 | DS803N-C125/0.3A |
| 3 | D | 125 | 300 | DS803N-D125/0.3A |
| 4 | B | 125 | 300 | DS804N-B125/0.3A |
| 4 | C | 125 | 300 | DS804N-C125/0.3A |
| 4 | D | 125 | 300 | DS804N-D125/0.3A |

** Price available on request



# Lightning Protection

## OPR ESE Terminals

The new OPR (Optimized Pulse Rod) range with increased initiation advance performances, represents further progress in terms of protection, operating autonomy and ease of maintenance. These advancements reinforce ABB's position as international leader in direct lightning protection.

The unique efficiency of the OPR lightning conductor is based on a specific initiation advance, well before the natural formation of an upward leader, the OPR generates a leader that rapidly propagates to capture the lighning and direct it to earth. Validated in laboratory, this gain in time relative to the simple rod provides additional essential protection.

During a storm the ambient electric field may rise to between 10 to 20 kV/m. As soon as the field exceeds a thresold representing the minimum risk of a lightning strike, the OPR lightning terminal is activated. It draw its energy from the ambient electric field the energy required to generate high voltage pulses, creating and propagating an upward leader. No other power sources are required, and no radioactive components are used.


## OPR Range

| Time gain, ΔT (µs) | Description | Order Code | Length (m) | Weight (kg) |
|---|---|---|---|---|
| 30 | OPR 30 | 2CTB899800R7000 | 0.215 | 2.19 |
| 60 | OPR 60 | 2CTB899800R7100 | 0.215 | 2.19 |

## Accessories

| Description | Order Code | Length (m) | Weight (kg) |
|---|---|---|---|
| Lightning stroke counter | H0CCF2004 | 0.121 | 0.56 |
| Mounting mast, 2m | H00003002L | 2.0 | 4.4 |
| Mounting mast, 3m with Guywire & Base plate | H00003003LGB | 3.0 | 6.5 |

## Radius of Protection (Rp)

### OPR Radius of Protection

| Level of protection | I(D=20m) | | II(D=40m) | | III(D=60m) | |
|---|---|---|---|---|---|---|
| OPR | OPR 30 | OPR 60 | OPR 30 | OPR 60 | OPR 30 | OPR 60 |
| h(m) | Radius of Protection RP(m) | | | | | |
| 2 | 19 | 32 | 25 | 40 | 28 | 44 |
| 3 | 28 | 48 | 38 | 59 | 42 | 65 |
| 4 | 38 | 64 | 50 | 78 | 57 | 87 |
| 5 | 48 | 79 | 63 | 97 | 71 | 107 |
| 6 | 48 | 79 | 64 | 97 | 72 | 107 |
| 8 | 49 | 79 | 65 | 98 | 73 | 106 |
| 10 | 49 | 79 | 66 | 99 | 75 | 109 |
| 15 | 50 | 80 | 69 | 101 | 78 | 111 |
| 20 | 50 | 80 | 71 | 102 | 81 | 113 |
| 45 | 50 | 80 | 75 | 105 | 89 | 119 |
| 60 | 50 | 80 | 75 | 105 | 90 | 120 |

# Surge Protection Devices (SPD)

## Type 1 Surge Arrester:

Surge arrester designed to run-off energy caused by an overvoltage comparable to that of a direct lightning strike.It has successfully passed testing to the standard with the 10/350 wave class I test (Class B) Lightning current arresters (Spark gap) Standards : Type 1 and Type 1+2 SPDs comply with IEC 61643-1

## Type 1 & Type 1+2 Surge arrester

| Product Description | Operating Voltage (V) | I imp in kA (10/350µs wave) | I max in kA (8/20µs wave) | No of Modules |
|---|---|---|---|---|
| OVR T1 3N 25 255-7 | 275 | 25 | - | 5 |
| OVR SO 100 400 | 275 | 25 | - | 4 |
| OVR T1+2 3N 7 275 s P | 275 | 7 | 70 | 4 |

For Type 1 & Type 1+2 - Prices are available on request

## Type 2 Surge Arrester

Surge arrester designed to run-off energy caused by an overvoltage comparable to that of an indirect lightning strike or an operating overvoltage.It has successfully passed testing to the standard with the 8/20 wave class II test (Class C) Surge arresters (Varistor)-Type 2 Standards :The modular power Type 2 surge arresters comply with IEC 61643-1 and EN 61643-11. The relevant standard for the installation of this type of surge arrester is:IEC 61643-12.

## Type 2 Surge arrester - 15KA

| Product Description | Operating Voltage (V) | I imp in kA (8/20µs wave) | No of Modules | M.R.P. (Rs) |
|---|---|---|---|---|
| OVR T2 15 275 | 275 | 15 | 1 | 1,900 |
| OVR T2 15 275 P | 275 | 15 | 1 | 2,845 |
| OVR T2 1N 15 275 P | 275 | 15 | 2 | 5,965 |
| OVR T2 3N 15 275 P | 275 | 15 | 4 | 10,470 |

## Type 2 Surge arrester - 40KA

| Product Description | Operating Voltage (V) | I imp in kA (8/20µs wave) | No of Modules | M.R.P. (Rs) |
|---|---|---|---|---|
| OVR T2 40 275 | 275 | 40 | 1 | 1,950 |
| OVR T2 40 275 P | 275 | 40 | 1 | 3,040 |
| OVR T2 40 275 P TS | 275 | 40 | 1 | 3,845 |
| OVR T2 40 275 s P | 275 | 40 | 1 | 4,260 |
| OVR T2 40 275 s P TS | 275 | 40 | 1 | 5,300 |
| OVR T2 1N 40 275 P | 275 | 40 | 2 | 6,425 |
| OVR T2 1N 40 275 P TS | 275 | 40 | 2 | 7,290 |
| OVR T2 1N 40 275 s P | 275 | 40 | 2 | 7,495 |
| OVR T2 1N 40 275 s P TS | 275 | 40 | 2 | 8,745 |
| OVR T2 3N 40 275 P | 275 | 40 | 4 | 11,700 |
| OVR T2 3N 40 275 P TS | 275 | 40 | 4 | 13,980 |
| OVR T2 3N 40 275 s P | 275 | 40 | 4 | 14,840 |
| OVR T2 3N 40 275 s P TS | 275 | 40 | 4 | 18,330 |

## Type 2 Surge arrester - 70KA

| Product Description | Operating Voltage (V) | I imp in kA (8/20µs wave) | No of Modules | M.R.P. (Rs) |
|---|---|---|---|---|
| OVR T2 70 275 s P | 275 | 70 | 1 | 4,565 |
| OVR T2 70 275 s P TS | 275 | 70 | 1 | 5,630 |
| OVR T2 1N 70 275 s P | 275 | 70 | 2 | 7,960 |
| OVR T2 1N 70 275 s P TS | 275 | 70 | 2 | 9,290 |
| OVR T2 3N 70 275 s P | 275 | 70 | 4 | 15,750 |
| OVR T2 3N 70 275 s P TS | 275 | 70 | 4 | 19,480 |

## Cartridges for Type 2 MOV pluggable Surge arresters

| Product Description | Operating Voltage (V) | I imp in kA (8/20µs wave) | No of Modules | M.R.P. (Rs) |
|---|---|---|---|---|
| OVR T2 15 275 C | 275 | 15 | 1 | 1,850 |
| OVR T2 40 275 C | 275 | 40 | 1 | 1,850 |
| OVR T2 70 275 s C | 275 | 70 | 1 | 3,300 |

## Surge arrester for Data line protection

| Product Description | Operating Voltage (V) | I imp in kA (8/20µs wave) | No of Modules | M.R.P. (Rs) |
|---|---|---|---|---|
| OVR TC 06V P | 7 | 10 | 1 | 6,320 |
| OVR TC 12V P | 14 | 10 | 1 | 5,300 |
| OVR TC 24V P | 27 | 10 | 1 | 5,300 |
| OVR TC 48V P | 53 | 10 | 1 | 5,400 |
| OVR TC 200V P | 220 | 10 | 1 | 5,300 |
| OVR TC 200 FR P | 220 | 10 | 1 | 5,300 |

## Surge arrester for Photovoltiac applications

| Product Description | Operating Voltage (V) | I imp in kA (8/20µs wave) | No of Modules | M.R.P. (Rs) |
|---|---|---|---|---|
| OVR PV 40 600 P | 700 | 40 | 3 | 9,920 |
| OVR PV 40 600 P TS | 700 | 40 | 3 | 13,830 |
| OVR PV 40 1000 P | 1120 | 70 | 3 | 10,310 |
| OVR PV 40 1000 P TS | 1120 | 70 | 3 | 14,520 |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# Measurement Devices

## Analogue Instruments

The range provided includes analogue and digital instruments. In addition to standard measuring devices for electrical quantities (voltmeters, ammeter, frequency meter, power factor meter) and a set of accessories are available, included ammetric transformers, which increases the functions of these instruments.

## Front panel analogue instruments

Available in both alternating and direct current versions, they come in three standard sizes, 48 mm x 48 mm, 72 mm x 72 mm, 96 mm x 96 mm (special versions available on request), Ammeter without scale for indirect connections must be completed with the interchangeable scale according to the full scale.

## Digital Instruments

The wide range of digital instruments start with the single phase instrument for measuring the voltage, current and frequency. The range is composed by a voltmeter for a.c./d.c. monitoring, two ammeter for measuring a.c. and d.c. current and frequency meter . Ammeter measure In indirect insertion thanks to measuring accessories , like current transformer for a.c. and shunt for d.c.

## Front panel digital instruments

The wide range of digital instrument starts with single phase instrument, for measuring voltage and current.The range is composed by a voltmeter for a.c./d.c. voltage monitoring, and two ammeter for a.c. and d.c. current. Ammeters measure in indirect insertion thanks to measuring accessories, like current transformer for a.c. and shunt for d.c.

The full scale is programmable by the user.

## Time Switches & Indicating Lamps

| Product Description | Product Code | M.R.P. (Rs) |
|---|---|---|
| Electro mechanical, daily programme without battery backup (Analogue type) | At3 | 3,030 |
| Electro mechanical, daily programme with battery backup (Analogue type) | AT3-R | 3,295 |
| Electro mechanical, weekly programme with battery backup 200 hours (Analogue type) | AT3-7R | 4,210 |
| Electro mechanical, with battery back up 72 hr (Analogue Type) | AT3-RS | 2,850 |
| Digital time switches weekly programme with standby battery (3 years) 1 channel | D1 | 6,750 |
| Digital time switches weekly programme with standby battery (3 years) 2 channel | D2 | 9,750 |
| Twilight switch with sensor | TW1 + LS-SP | 7,540 |
| Indicator Light (Red) | E219-C | 660 |
| Indicator Light (Green) | E219-D | 660 |
| Indicator Light (Yellow) | E219-E | 660 |
| Indicator Light (Blue) | E219-G | 660 |

## RD3 residual current monitors

Residual current monitors (RCMs) with external toroidal transformer can detect leakage currents.Through minidip you can set sensitivity and intervention time.The RD3 family of electronic residual current relays provides residual current protection and monitoring functions and can be used in conjunction with all S 200 automatic devices and Tmax range moulded case devices up to T5, for industrial installations

| Operating Voltage | Product Code** |
|---|---|
| 12-48 a.c./d.c. | RD3-48 |
| 230-400 a.c. | RD3 |
| 12-48 a.c./d.c. | RD3M-48 |
| 230-400 a.c. | RD3M |
| 12-48 a.c./d.c. | RD3P-48 |
| 230-400 a.c. | RD3P |

** Price available on request

# Multifunction meters and network analyser

ABB offers a wide range of analogue voltmeters, ammeters, frequency meters, power factor meters, available in modular or front panel and version.
Voltmeters, ammeters and frequency meters are also available in digital range (both modular and front panel version) that also includes voltmeters and ammeters equipped with output relay. ABB multimeters allow the measurement of the main electrical parameters in three phase networks.

The range is divided in:
- DMTME - modular version
- DMTME-72 and DMTME-96 - front panel version also available with RS 485 modbus RTU port for communicating the measured parameters over a modbus network

ABB offers a front panel range of network analyzers that perform true RMS value of the principal electrical quantities in single and three phase networks. The range of network analyzers is divided into:
- MTME measuring in TRMS of all electrical quantities
- ANR which are able to measure and record network parameters information and alarms routing data towards supervision and monitoring systems.

## Front panel DMTME multimeters & Analyzers

| | Modular and front panel multimeters | | | Front panel network analysers | |
|---|---|---|---|---|---|
| |  DMTME |  DMTME-72 |  DMTME-96 |  ANR-96 |  ANR-144 |
| **Overall dimensions** | **6 DIN modules** | **72x72x90** | **96x96x103** | **96x96x130** | **144x144x66** |
| Display | LED | | | LCD graphic backlit | |
| Power supply | 110 V a.c. 230 V a.c. | 230 V a.c. 4000 V a.c. | 110 V a.c. 230 V a.c. | 20-60 V a.c./d.c.. | 85-265 V a.c./d.c.. |
| TRMS voltage | Electrical parameters measurements | | | Electrical parameters measurements | |
| Frequency | | | | | |
| Power factor | | | | | |
| $Cos_{cp}$ | | | | | |
| Active power | | | | | |
| Reactive power | | | | | |
| Apparent power | | | | | |
| Active energy | | | | | |
| Reactive energy | | | | | |
| Apparent energy | | | | | |
| Peak value Min/Max/Avg | | | | | |
| Timer and count-down | | | | | |
| Power 4Q | Power quality | | | Power quality | |
| Energy 4Q | | | | | |
| Neutral current | | | | | |
| Current THD | | | | | |
| Voltage THD | | | | | |
| Password set up | | | | | |
| Tariff | Energy management | | | Energy management | |
| Maximum demand | | | | | |
| Harmonic analysis upto 31°C | | | | | |
| Wave from visualisation | | | | | |
| Memory 1 MB | | | | | |
| Outputs | Digital | | | Digital | Digital & analog |
| Inputs | Digital | | | | |
| Serial port | RS 485 | | | RS485/RS232 | |
| Protocols | Modbus RTU | | | Modbus RTU<br>Profibus DP | Modbus RTU<br>Ethernet TCP/IP<br>Profibus DP |

# Products for Photovoltaic Applications

ABB, as a manufacturer and supplier, has been working for many years to offer products and solutions to reduce the environmental impact of energy systems. For Photovoltaic Market ABB supplies a comprehensive range of high technology products virtually for every residential, commercial and power plant application, to ensure its customer the value of a renewable source of energy. Innovation, top quality and high endurance products are the key factors which have made ABB one of the most versatile Companies in the world wide market.

## Miniature Circuit Breakers, S800 PV-S

The S800 PV-S miniature circuit breakers can be used in networks up to 1200 V d.c. (four-pole version); these products and their wide range of accessories (auxiliary contacts, release coils and motor operating mechanism) support countless system configurations.

The main features of the S800 PV-S circuit breakers are:
- Interchangeable adapter kit
- Lever in a central position for fault signaling
- Contact position unit display for each single pole
- No restrictions of polarity and power direction in wiring
- Use of the rotary handle for door assembly

Rated Operational Current: 10,13, 16, 20, 25, 32, 40, 50, 63, 80, 100 and 125A (2P & 4P)
Rated Operational Voltage : Up to 1200V
Ultimate short-circuit breaking capacity Icu= 5 kA
Standards: IEC/EN 60947-2

## Switch-disconnectors, S 800 PV-M

The S800 PV-M modular switch disconnectors can be used in networks up to 1200 V d.c. (four-pole version); these products and their wide range of accessories (auxiliary contacts, release coils and motor operating mechanism) support countless system configurations.

Rated Operational Current: 32, 63, 125 A (2P & 4P)
Rated Operational Voltage : Up to 1200V
Rated Short Time Withstand current Icw= 1,5 kA
Standards: IEC/EN 60947-3

## Accessories for S800 PV

Auxiliary contact and signal/auxiliary contact
Shunt trip and undervoltage release
Rotary drive adapter and rotary handle for 3 and 4 poles
Motor operating mechanism

## Surge Protective Devices, OVR PV

ABB provides a wide range of surge protection devices that are specifically designed for photovoltaic systems.

Max. continuous operating Voltage: 700V & 1120V
Maximum Discharge Current: 40 kA

The main features of the OVR PV surge protection devices are:
- Built-in thermal protection with breaking capacity of 25A d.c.
- Removable cartridges for easy maintenance with no need to isolate the line
- Remote signal contact for operating status monitoring (TS versions)
- No subsequent short-circuit current
- No risk if poles are inverted

## Fuse Base, E 90 PV

The E 90 PV series of fuse disconnectors has been designed for voltage up to 1000 V and upto 32A in direct current, with DC-20B usage class. The E 90 PV series is specifically applied in surge protection in photovoltaic systems and provides a reliable, compact and inexpensive solution in 10.3 x 38 mm cylindrical fuses.

The main features of the E 90 PV disconnectors are:
- Handle with 90° opening for easier insertion of the horizontal fuse
- Only 17mm additional footprint in open position vs. closed position
- 25mm2 terminals with knurled terminal cage for better cable tightening- 100% compatible with electrical screwdrivers
- Pozidriv screws for flathead and cross-point screwdrivers
- Lockable in open position with common commercial padlocks, to ensure safe maintenance operations
- Sealable in closed position to prevent improper use
- Cooling chambers and ventilation louvers to facilitate heat dissipation
- Versions with indicator light are available

## E 9F PV fuses

Specifically designed for protecting strings, inverters and as back up protection for surge arresters in PV systems (DC Currents) according to IEC 60269-6.

Main features are:
- Rated current : 1A to 30A
- Rated voltage up to 1000V
- Size : 10.3 x 38 mm.
- Breaking Capacity : 50KA

## String Junction Boxes

The Europa series wall-mounted consumer units have IP65 protection class making them particularly suited for installation outdoors. They can be used to make string boxes downstream of the photovoltaic strings

The main features of the Europa series wall-mounted consumer units are:
- Class II insulation
- Manufactured in self-extinguishing thermoplastic material resistant to abnormal heat and to fire up to 650 °C (glow wire test), in conformity with the IEC 60695-2-11 standard
- Installation temperature: -25 °C ÷ +60 °C
- Rated isolation voltage: 1000 V a.c.; 1500 V d.c.
- Shock resistance: 6 joules (IK 08 class)
- Control boards in conformity with the IEC 60670 standards

ABB offering also includes IP polycarbonate junction boxes that are particularly suited for outdoor applications.

The main features of the junction boxes are:
- Class II insulation
- Manufactured in self-extinguishing polycarbonate resistant to abnormal heat and to fire up to 960 °C (glow wire test), in conformity with the IEC 60695-2-11standard
- Installation temperature: -25 °C ÷ +125 °C
- Rated isolation voltage: 1000 V a.c.; 1500 V d.c.
- Shock resistance: 20 joules (IK 10 class)
- Junction boxes in conformity with the IEC 60670 standards

# Distribution Boards

ABB's S-series of Distribution Boards meet all the requirements of modern installation for domestic, commercial or industrial applications.

Blending aesthetics, functionality and safety, the S-series of ABB Distribution Boards are manufactured with precision and are of high quality CRCA steel sheets. These Distribution Boards undergo a seven-tank phosphating process and powder coating to ensure an anti-rust conditioning, superior finish and lasting strength. It is available in Ivory (RAL 9010) colour.

## Installation

The S-series of ABB Distribution Boards are universal mounting types, hence can be flush or wall mounted. These Distribution Boards are provided with top and bottom removable gland plates with adequate number of knockouts, which enable easy installation and connection of conduits of all sizes (upto 36mm dia knockout). Double door construction of Distribution Boards facilitates easy removal of door intermediate plate.

## Protection

S-series Distribution Boards offer two types of protection-IP42 degree with a metal door and IP20 degree without a door. The highest degree of attention has been paid to the safety aspect of the Distribution Boards, considering that they are installed in close proximity to people. An intermediate plate ensures total safety, as no live parts are exposed when the door is opened.


# Distribution Boards

## SPN DB - SHC

Horizontal single phase consumer unit with provision for incoming 2 pole (MCB / Isolator / RCD) and single phase outgoing. Suitable for surface and flush mounting.

### IP 30

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| SHC WD 4 | 4 way | 4+2 | 871 |
| SHC WD 6 | 6 way | 6+2 | 934 |
| SHC WD 8 | 8 way | 8+2 | 1,066 |
| SHC WD 10 | 10 way | 10+2 | 1,117 |
| SHC WD 12 | 12 way | 12+2 | 1,358 |
| SHC WD 14 | 14 way | 14+2 | 1,386 |
| SHC WD 16 | 16 way | 16+2 | 1,752 |
| SHC WD 20 | 20 way | 20+2 | 1,972 |

### IP 43 with Metal Door

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| SHC M 4 | 4 way | 4+2 | 1,219 |
| SHC M 6 | 6 way | 6+2 | 1,361 |
| SHC M 8 | 8 way | 8+2 | 1,588 |
| SHC M 10 | 10 way | 10+2 | 1,631 |
| SHC M 12 | 12 way | 12+2 | 1,839 |
| SHC M 14 | 14 way | 14+2 | 2,015 |
| SHC M 16 | 16 way | 16+2 | 2,382 |
| SHC M 20 | 20 way | 20+2 | 2,695 |

### IP 43 Metal Door with Acrylic

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| SHC P 4 | 4 way | 4+2 | 1,260 |
| SHC P 6 | 6 way | 6+2 | 1,523 |
| SHC P 8 | 8 way | 8+2 | 1,680 |
| SHC P 10 | 10 way | 10+2 | 1,843 |
| SHC P 12 | 12 way | 12+2 | 2,100 |
| SHC P 14 | 14 way | 14+2 | 2,284 |
| SHC P 16 | 16 way | 16+2 | 2,715 |
| SHC P 20 | 20 way | 20+2 | 3,099 |

### IP 54

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| SHC M WP 4 | 4 way | 4+2 | 3,637 |
| SHC M WP 6 | 6 way | 6+2 | 3,919 |
| SHC M WP 8 | 8 way | 8+2 | 4,303 |
| SHC M WP 10 | 10 way | 10+2 | 4,520 |
| SHC M WP 12 | 12 way | 12+2 | 4,949 |
| SHC M WP 14 | 14 way | 14+2 | 5,010 |
| SHC M WP 16 | 16 way | 16+2 | 5,485 |
| SHC M WP 20 | 20 way | 20+2 | 5,869 |


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# Distribution Boards

## TPN DB - SHDB

Horizontal three phase distribution board provision for incomer 8 pole (MCB / Isolator /RCD) and single phase outgoings suitable for both surface & flush mounting.

### IP 30

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| SHDB WD 4 | 4 way | 8+12 | 2,046 |
| SHDB WD 6 | 6 way | 8+18 | 2,558 |
| SHDB WD 8 | 8 way | 8+24 | 3,035 |
| SHDB WD 12 | 12 way | 8+36 | 4,436 |
| SHDB WD 16 | 16 way | 8+48 | 5,411 |

### IP 43 with Metal Door

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| SHDB M 4 | 4 way | 8+12 | 2,718 |
| SHDB M 6 | 6 way | 8+18 | 3,370 |
| SHDB M 8 | 8 way | 8+24 | 4,045 |
| SHDB M 12 | 12 way | 8+36 | 6,037 |
| SHDB M 16 | 16 way | 8+48 | 7,398 |

### IP 43 Metal Door with Acrylic

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| SHDB P 4 | 4 way | 8+12 | 3,310 |
| SHDB P 6 | 6 way | 8+18 | 4,081 |
| SHDB P 8 | 8 way | 8+24 | 4,843 |
| SHDB P 12 | 12 way | 8+36 | 7,391 |
| SHDB P 16 | 16 way | 8+48 | 8,863 |

### IP 54

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| SHDB M WP 4 | 4 way | 8+12 | 8,020 |
| SHDB M WP 6 | 6 way | 8+18 | 9,655 |
| SHDB M WP 8 | 8 way | 8+24 | 10,568 |
| SHDB M WP 12 | 12 way | 8+36 | 14,913 |
| SHDB M WP 16 | 16 way | 8+48 | 17,888 |

## Plug & Socket DB - SGK

Plug socket boards for single phase and three phase applications up to 63A (supplied completely with plug and socket).

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| SGK 10 SP | 10A SP | 1 | 1,085 |
| SGK 20 SP | 20A SP | 1 | 1,134 |
| SGK 20 TP | 20A TP | 3 | 2,144 |
| SGK 30 TP | 30A TP | 3 | 2,551 |
| SGK 20 DPR | 20A DP RCBO | 4 | 1,227 |
| SGK 25 FPR | 25A FP RCBO | 6 | 2,147 |
| SGK 60 FP | 60A FP | 4 | 9,980 |


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# Distribution Boards

## Enclosures - SEN

Metal enclosures, universal mounting suitable for SP, DP, FP, 6 pole & 8 pole arrangement.

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| SEN 1P | 1P Enclosure | 1 | 292 |
| SEN 2P | 2P Enclosure | 2 | 428 |
| SEN 4P | 4P Enclosure | 4 | 430 |
| SEN 6P | 6P Enclosure | 6 | 599 |
| SEN 8P | 8P Enclosure | 8 | 696 |

## Busbar SP I/C & SP O/G

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| 13Mod Insulated Busbars | 13 | 13 | 275 |
| 14Mod Insulated Busbars | 14 | 14 | 275 |

## Blanking Plate

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| Blank PL | | 1 | 13 |

## 7 Segment DB - S7SEG

Seven segment Distribution Board with phase segregation and separation between incoming and outgoing with provision for 8P incomer (MCB / Isolator / RCD) and 4P sub-incomers (MCB / Isolator / RCD) with single phase outgoings with complete wire sets.

### IP 30

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| S7SEG WD 4 | 4 way | 8+12+12 | 6,341 |
| S7SEG WD 6 | 6 way | 8+12+18 | 6,969 |
| S7SEG WD 8 | 8 way | 8+12+24 | 7,395 |
| S7SEG WD 12 | 12 way | 8+12+36 | 8,595 |

### IP 43 with Metal Door

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| S7SEG M 4 | 4 way | 8+12+12 | 6,711 |
| S7SEG M 6 | 6 way | 8+12+18 | 7,572 |
| S7SEG M 8 | 8 way | 8+12+24 | 8,448 |
| S7SEG M 12 | 12 way | 8+12+36 | 10,737 |


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# Distribution Boards

## 7 Segment DB MCCB I/C DB - S7SEG T1

Seven segment Distribution Board with phase segregation and separation between incoming and outgoing with provision for 4P MCCB upto 160A as incomer and 4P as sub-incomers (MCB / Isolator / RCD) with single phase outgoings with complete wire sets & bus bars.

### IP 30

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| S7SEG WD 4T1 | 4 way | T-max+12+12 | 8,738 |
| S7SEG WD 6T1 | 6 way | T-max+12+18 | 9,958 |
| S7SEG WD 8T1 | 8 way | T-max+12+24 | 11,551 |
| S7SEG WD 12T1 | 12 way | T-max+12+36 | 13,283 |

### IP 43 with Metal Door

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| S7SEG M 4 T1 | 4 way | T-max+12+12 | 9,766 |
| S7SEG M 6 T1 | 6 way | T-max+12+18 | 11,183 |
| S7SEG M 8 T1 | 8 way | T-max+12+24 | 12,787 |
| S7SEG M 12 T1 | 12 way | T-max+12+36 | 14,715 |

## Per Phase Isolation DB - SHPPI

Horizontal per-phase Isolation Distribution Board with provision for 8 pole (MCB / Isolator / RCD) as incomer and Single phase as outgoings with seperate neutral and earth bars for per phase Isolation.

### IP 30

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| SHPPI WD 6 | 6 way | 8+18 | 4,233 |
| SHPPI WD 8 | 8 way | 8+24 | 4,997 |
| SHPPI WD 12 | 12 way | 8+36 | 6,597 |
| SHPPI WD 16 | 16 way | 8+48 | 7,821 |

### IP 43 with Metal Door

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| SHPPI M 6 | 6 way | 8+18 | 5,119 |
| SHPPI M 8 | 8 way | 8+24 | 6,080 |
| SHPPI M 12 | 12 way | 8+36 | 8,230 |
| SHPPI M 16 | 16 way | 8+48 | 9,828 |

### IP 43 Metal Door with Acrylic

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| SHPPI P 6 | 6 way | 8+18 | 5,751 |
| SHPPI P 8 | 8 way | 8+24 | 6,802 |
| SHPPI P 12 | 12 way | 8+36 | 9,532 |
| SHPPI P 16 | 16 way | 8+48 | 11,246 |

### IP 54

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| SHPPI M WP 6 | 6 way | 8+18 | 11,291 |
| SHPPI M WP 8 | 8 way | 8+24 | 12,477 |
| SHPPI M WP 12 | 12 way | 8+36 | 16,985 |
| SHPPI M WP 16 | 16 way | 8+48 | 20,191 |



# Distribution Boards

## Per Phase Isolation DB - SVDB

Tier type per-phase Isolation Distribution Board with provision for 8 pole (MCB / Isolator / RCD) incomer and provision for 2 pole (MCB / Isolator / RCD) as sub-incomers with single phase outgoings with seperate neutral and earth bars for per phase Isolation.

### IP 43 with Metal Door

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| SVDB M 6 | 6 way | 8+6+18 | 5,774 |
| SVDB M 8 | 8 way | 8+6+24 | 7,357 |
| SVDB M 12 | 12 way | 8+6+36 | 8,612 |

### IP 43 Metal Door with Acrylic

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| SVDB P 6 | 6 way | 8+6+18 | 6,418 |
| SVDB P 8 | 8 way | 8+6+24 | 8,167 |
| SVDB P 12 | 12 way | 8+6+36 | 9,506 |

## Vertical DB 8P I/C & SP/TP O/G -SVTDB

Vertical three phase Distribution Board with provision for 8 pole (MCB / Isolator / RCD) incoming with three phase and single phase (TP/SP) outgoings, complete with insulated busbar arrangement.

### IP 30

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| SVTDB WD 4 | 4 way | 8+12 | 5,888 |
| SVTDB WD 6 | 6 way | 8+18 | 6,478 |
| SVTDB WD 8 | 8 way | 8+24 | 7,258 |
| SVTDB WD 12 | 12 way | 8+36 | 10,476 |

### IP 43 with Metal Door

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| SVTDB M 4 | 4 way | 8+12 | 6,688 |
| SVTDB M 6 | 6 way | 8+18 | 7,906 |
| SVTDB M 8 | 8 way | 8+24 | 8,453 |
| SVTDB M 12 | 12 way | 8+36 | 11,342 |

### IP 43 Metal Door with Acrylic

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| SVTDB P 4 | 4 way | 8+12 | 8,386 |
| SVTDB P 6 | 6 way | 8+18 | 9,696 |
| SVTDB P 8 | 8 way | 8+24 | 10,656 |
| SVTDB P 12 | 12 way | 8+36 | 14,221 |

### IP 54

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| SVTDB M WP 4 | 4 way | 8+12 | 13,033 |
| SVTDB M WP 6 | 6 way | 8+18 | 15,027 |
| SVTDB M WP 8 | 8 way | 8+24 | 15,680 |
| SVTDB M WP 12 | 12 way | 8+36 | 20,891 |



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# Distribution Boards

## Vertical DB 160A MCCB I/C & SP/ TP MCB O/G - SVTDB T1

Vertical three phase Distribution Board with provision for 4 pole MCCB (T-max/T1) upto 160A as incomer with three phase and single phase (TP/SP) outgoings, complete with insulated busbar arrangement.

### IP 30

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| SVTDB WD 4 T1 | 4 way | T-max+12 | 6,758 |
| SVTDB WD 6 T1 | 6 way | T-max+18 | 7,794 |
| SVTDB WD 8 T1 | 8 way | T-max+24 | 8,066 |
| SVTDB WD 12 T1 | 12 way | T-max+36 | 12,099 |

### IP 43 with Metal Door

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| SVTDB M 4 T1 | 4 way | T-max+12 | 7,776 |
| SVTDB M 6 T1 | 6 way | T-max+18 | 9,068 |
| SVTDB M 8 T1 | 8 way | T-max+24 | 9,882 |
| SVTDB M 12 T1 | 12 way | T-max+36 | 13,176 |

### IP 54

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| SVTDB M WP 4T1 | 4 way | T-max+12 | 14,999 |
| SVTDB M WP 6T1 | 6 way | T-max+18 | 16,926 |
| SVTDB M WP 8T1 | 8 way | T-max+24 | 18,031 |
| SVTDB M WP 12T1 | 12 way | T-max+36 | 24,212 |

## Vertical DB 250A MCCB I/C & SP/TP MCB O/G - SVTDB T3

Vertical three phase Distribution Board with provision for 4 pole MCCB (T-max /T3) upto 250A as incomer with three phase and single phase (TP/SP) outgoings, complete with insulated busbar arrangement.

### IP 30

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| SVTDB WD 4 T3 | 4 way | 250A T-max+12 | 12,145 |
| SVTDB WD 6 T3 | 6 way | 250A T-max+18 | 13,201 |
| SVTDB WD 8 T3 | 8 way | 250A T-max+24 | 13,511 |
| SVTDB WD 12 T3 | 12 way | 250A T-max+36 | 14,926 |

### IP 43 with Metal Door

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| SVTDB M 4 T3 | 4 way | 250A T-max+12 | 14,688 |
| SVTDB M 6 T3 | 6 way | 250A T-max+18 | 15,968 |
| SVTDB M 8 T3 | 8 way | 250A T-max+24 | 17,288 |
| SVTDB M 12 T3 | 12 way | 250A T-max+36 | 18,054 |

### IP 54

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| SVTDB M WP 4 T3 | 4 way | 250A T-max+12 | 20,768 |
| SVTDB M WP 6 T3 | 6 way | 250A T-max+18 | 22,619 |
| SVTDB M WP 8 T3 | 8 way | 250A T-max+24 | 23,883 |
| SVTDB M WP 12 T3 | 12 way | 250A T-max+36 | 27,465 |



Distribution Boards

## Phase Selector DB - SPVS

Phase selector DBs-SPVS with inbuilt 3nos piano switches and 3nos phase selector switch of 63A.

### IP 30

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| SPVS WD 4 | 4 way | 8+12 | 8,067 |
| SPVS WD 6 | 6 way | 8+18 | 8,579 |
| SPVS WD 8 | 8 way | 8+24 | 9,464 |
| SPVS WD 12 | 12 way | 8+36 | 10,483 |

### IP 43 with Metal Door

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| SPVS M 4 | 4 way | 8+12 | 9,076 |
| SPVS M 6 | 6 way | 8+18 | 9,218 |
| SPVS M 8 | 8 way | 8+24 | 10,061 |
| SPVS M 12 | 12 way | 8+36 | 11,273 |

## Flexy Tier DB - SVFL

Total flexibility as per site needs – configuration as per your choice of incomer & outgoings. Supply bus bars needs to be selected.

### IP 43 with Metal Door

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| SVFL M 132 | 2 row of 13mod | 26 | 3,381 |
| SVFL M 133 | 3 row of 13mod | 39 | 3,996 |
| SVFL M 134 | 4 row of 13mod | 52 | 4,304 |
| SVFL M 142 | 2 row of 14mod | 28 | 4,534 |
| SVFL M 143 | 3 row of 14mod | 42 | 5,072 |
| SVFL M 144 | 4 row of 14mod | 56 | 5,328 |

### IP 43 Metal Door with Acrylic

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| SVFL P 132 | 2 row of 13mod | 26 | 3,395 |
| SVFL P 133 | 3 row of 13mod | 39 | 3,996 |
| SVFL P 134 | 4 row of 13mod | 52 | 4,504 |
| SVFL P 142 | 2 row of 14mod | 28 | 5,113 |
| SVFL P 143 | 3 row of 14mod | 42 | 5,682 |
| SVFL P 144 | 4 row of 14mod | 56 | 5,981 |



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# Distribution Boards

## Cable End Box

| Type No. | No of Ways | M.R.P. (Rs) |
|---|---|---|
| SHC WD 4/CEB | For 4 way SPN IP30 DB | 354 |
| SHC WD 6/CEB | For 6 way SPN IP30 DB | 392 |
| SHC WD 8/CEB | For 8 way SPN IP30 DB | 413 |
| SHC WD 10/CEB | For 10 way SPN IP30 DB | 459 |
| SHC WD 12/CEB | For 12 way SPN IP30 DB | 503 |
| SHC WD 14/CEB | For 14 way SPN IP30 DB | 559 |
| SHC WD 16/CEB | For 16 way SPN IP30 DB | 639 |
| SHC WD 20/CEB | For 20 way SPN IP30 DB | 710 |
| SHC M 4/CEB | For 4 way SPN IP 43 DB | 413 |
| SHC M 6/CEB | For 6 way SPN IP43 DB | 449 |
| SHC M 8/CEB | For 8 way SPN IP43 DB | 476 |
| SHC M 10/CEB | For 10 way SPN IP43 DB | 503 |
| SHC M 12/CEB | For 12 way SPN IP43 DB | 565 |
| SHC M 14/CEB | For 14 way SPN IP43 DB | 612 |
| SHC M 16/CEB | For 16 way SPN IP43 DB | 746 |
| SHC M 20/CEB | For 20 way TPN IP43 DB | 938 |
| SHDB WD 4/CEB | For 4 way TPN IP30 DB | 612 |
| SHDB WD 6/CEB | For 6 way TPN IP30 DB | 639 |
| SHDB WD 8/CEB | For 8 way TPN IP30 DB | 1,156 |
| SHDB WD 12/CEB | For 12 way TPN IP30 DB | 1,523 |
| SHDB WD 16/CEB | For 16 way TPN IP30 DB | 1,532 |
| SHDB M 4/CEB | For 4 way TPN IP43 DB | 712 |
| SHDB M 6/CEB | For 6 way TPN IP43 DB | 746 |
| SHDB M 8/CEB | For 8 way TPN IP43 DB | 1,327 |
| SHDB M 12/CEB | For 12 way TPN IP43 DB | 1,754 |
| SHDB M 16/CEB | For 16 way TPN IP43 DB | 1,754 |
| SHPPI WD 6/CEB | For 6way PPI IP30 DB | 729 |
| SHPPI WD 8/CEB | For 8way PPI IP30 DB | 1,156 |
| SHPPI WD 12/CEB | For 12way PPI IP30 DB | 1,532 |
| SHPPI WD 16/CEB | For 16way PPI IP30 DB | 1,532 |
| SHPPI M 6/CEB | For 6way PPI IP43 DB | 816 |
| SHPPI M 8/CEB | For 8way PPI IP43 DB | 1,327 |
| SHPPI M 12/CEB | For 12way PPI IP43 DB | 1,754 |
| SHPPI M 16/CEB | For 16way PPI IP43 DB | 1,754 |
| SVDB M 6/CEB | For 6way SVDB IP43 DB | 747 |
| SVDB M 8/CEB | For 8way SVDB IP43 DB | 885 |
| SVDB M 12/CEB | For 12way SVDB IP43 DB | 1,020 |
| SVFL 13M/CEB | For all SVFL 13Mod DBs | 790 |
| SVFL 14M/CEB | For all SVFL 14Mod DBs | 844 |
| SVTDB WD /CEB | For all SVTDBs(IP30DBs) | 463 |
| SVTDB M/CEB | For all SVTDBs(IP43DBs) | 1,714 |
| SVTDB WD T1/CEB | For all SVTDB T1(IP30 DBs) | 2,136 |
| SVTDB WD T3/CEB | For all SVTDB T3 DBs(IP30 DBs) | 532 |
| SVTDB M T1/CEB | For all SVTDB T1 DBs(IP43DBs) | 1,917 |
| SVTDB MT3/CEB | For all SVTDB T3 DBs(IP43DBs) | 2,447 |

# Distribution Boards(Compact Range)

## Technical Features

- The pan Assembly ensures that the entire internal assembly can be stored safely when not in use, MCBs/RCDs Can be conveniently assembled on the Dinrail and the entire Pan assembly can
- Busbar and Neutral Links are Shrouded,Thus there's no Possibility of shock during use
- Door earthing makes the entire DB totally shock proof
- Dust Guard will prevent cement from entering the box during Plastering,thus keeping Internal components safe
- Insulated Pin type Busbar
- Doors are provided with spring loaded hinges for easy Removal
- Stoppers are provided at the corner of the Din channel for avoiding slippage of devices
- IP 30,IP 43,IP54 Protection
- Phase selector DBs will be provided with 3nos 63A Selector switch and Piano switch


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# Distribution Boards(Compact Range)

## SPN DB - C - SHC

### IP 30

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-SHC WD 4 | 4 way | 4+2 | 910 |
| C-SHC WD 6 | 6 way | 6+2 | 981 |
| C-SHC WD 8 | 8 way | 8+2 | 1,113 |
| C-SHC WD 10 | 10 way | 10+2 | 1,163 |
| C-SHC WD 12 | 12 way | 12+2 | 1,418 |
| C-SHC WD 14 | 14 way | 14+2 | 1,448 |
| C-SHC WD 16 | 16 way | 16+2 | 1,830 |
| C-SHC WD 20 | 20 way | 20+2 | 2,060 |

### IP 43 with Metal Door

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-SHC M 4 | 4 way | 4+2 | 1,273 |
| C-SHC M 6 | 6 way | 6+2 | 1,391 |
| C-SHC M 8 | 8 way | 8+2 | 1,659 |
| C-SHC M 10 | 10 way | 10+2 | 1,674 |
| C-SHC M 12 | 12 way | 12+2 | 1,921 |
| C-SHC M 14 | 14 way | 14+2 | 2,101 |
| C-SHC M 16 | 16 way | 16+2 | 2,488 |
| C-SHC M 20 | 20 way | 20+2 | 2,814 |

### IP 43 Metal Door with Acrylic

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-SHC P 4 | 4 way | 4+2 | 1,328 |
| C-SHC P 6 | 6 way | 6+2 | 1,614 |
| C-SHC P 8 | 8 way | 8+2 | 1,771 |
| C-SHC P 10 | 10 way | 10+2 | 1,951 |
| C-SHC P 12 | 12 way | 12+2 | 2,214 |
| C-SHC P 14 | 14 way | 14+2 | 2,414 |
| C-SHC P 16 | 16 way | 16+2 | 2,862 |
| C-SHC P 20 | 20 way | 20+2 | 3,267 |

### IP 54

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-SHC M WP 4 | 4 way | 4+2 | 3,834 |
| C-SHC M WP 6 | 6 way | 6+2 | 4,142 |
| C-SHC M WP 8 | 8 way | 8+2 | 4,536 |
| C-SHC M WP 10 | 10 way | 10+2 | 4,782 |
| C-SHC M WP 12 | 12 way | 12+2 | 5,217 |
| C-SHC M WP 14 | 14 way | 14+2 | 5,296 |
| C-SHC M WP 16 | 16 way | 16+2 | 5,782 |
| C-SHC M WP 20 | 20 way | 20+2 | 6,187 |



Distribution Boards(Compact Range)

## TPN DB - C - SHDB

### IP 30

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-SHDB WD 4 | 4 way | 8+12 | 2,152 |
| C-SHDB WD 6 | 6 way | 8+18 | 2,679 |
| C-SHDB WD 8 | 8 way | 8+24 | 3,180 |
| C-SHDB WD 12 | 12 way | 8+36 | 4,667 |
| C-SHDB WD 16 | 16 way | 8+48 | 5,703 |

### IP 43 with Metal Door

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-SHDB M 4 | 4 way | 8+12 | 2,814 |
| C-SHDB M 6 | 6 way | 8+18 | 3,471 |
| C-SHDB M 8 | 8 way | 8+24 | 4,156 |
| C-SHDB M 12 | 12 way | 8+36 | 6,232 |
| C-SHDB M 16 | 16 way | 8+48 | 7,616 |

### IP 43 Metal Door with Acrylic

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-SHDB P 4 | 4 way | 8+12 | 3,456 |
| C-SHDB P 6 | 6 way | 8+18 | 4,265 |
| C-SHDB P 8 | 8 way | 8+24 | 5,067 |
| C-SHDB P 12 | 12 way | 8+36 | 7,772 |
| C-SHDB P 16 | 16 way | 8+48 | 9,327 |

### IP 54

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-SHDB M WP 4 | 4 way | 8+12 | 8,519 |
| C-SHDB M WP 6 | 6 way | 8+18 | 10,252 |
| C-SHDB M WP 8 | 8 way | 8+24 | 11,212 |
| C-SHDB M WP 12 | 12 way | 8+36 | 15,801 |
| C-SHDB M WP 16 | 16 way | 8+48 | 18,964 |

## Plug & Socket DB - C - SGK

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-SGK 10 SP | 10A SP | 1 | 1,118 |
| C-SGK 20 SP | 20A SP | 1 | 1,200 |
| C-SGK 20 TP | 20A TP | 3 | 2,213 |
| C-SGK 30 TP | 30A TP | 3 | 2,639 |
| C-SGK 20 DPR | 20A DP RCBO | 4 | 1,269 |
| C-SGK 25 FPR | 25A FP RCBO | 6 | 2,221 |
| C-SGK 60 FP | 60A FP | 4 | 10,324 |



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# Distribution Boards(Compact Range)

## Enclosure - C - SEN

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-SEN 1P | 1P Enclosure | 1 | 302 |
| C-SEN 2P | 2P Enclosure | 2 | 441 |
| C-SEN 4P | 4P Enclosure | 4 | 441 |
| C-SEN 6P | 6P Enclosure | 6 | 622 |
| C-SEN 8P | 8P Enclosure | 8 | 720 |

## 7 Segment DB - C - S7SEG

### IP 30

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-S7SEG WD 4 | 4 way | 8+12+12 | 6,648 |
| C-S7SEG WD 6 | 6 way | 8+12+18 | 7,307 |
| C-S7SEG WD 8 | 8 way | 8+12+24 | 7,752 |
| C-S7SEG WD 12 | 12 way | 8+12+36 | 9,011 |

### IP 43 with Metal Door

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-S7SEG M 4 | 4 way | 8+12+12 | 6,950 |
| C-S7SEG M 6 | 6 way | 8+12+18 | 7,836 |
| C-S7SEG M 8 | 8 way | 8+12+24 | 8,658 |
| C-S7SEG M 12 | 12 way | 8+12+36 | 10,993 |



Distribution Boards(Compact Range)

## 7 Segment DB MCCB I/C DB - C - S7SEG T1

### IP 30

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-S7SEG WD 4T1 | 4 way | T-max+12+12 | 9,036 |
| C-S7SEG WD 6T1 | 6 way | T-max+12+18 | 10,299 |
| C-S7SEG WD 8T1 | 8 way | T-max+12+24 | 11,945 |
| C-S7SEG WD 12T1 | 12 way | T-max+12+36 | 13,737 |

### IP 43 with Metal Door

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-S7SEG M 4 T1 | 4 way | T-max+12+12 | 10,053 |
| C-S7SEG M 6 T1 | 6 way | T-max+12+18 | 11,504 |
| C-S7SEG M 8 T1 | 8 way | T-max+12+24 | 13,173 |
| S7SEG M 12 T1 | 12 way | T-max+12+36 | 15,147 |

## Per Phase Isolation DB - C - SHPPI

### IP 30

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-SHPPI WD 6 | 6 way | 8+18 | 4,445 |
| C-SHPPI WD 8 | 8 way | 8+24 | 5,247 |
| C-SHPPI WD 12 | 12 way | 8+36 | 6,927 |
| C-SHPPI WD 16 | 16 way | 8+48 | 8,212 |

### IP 43 with Metal Door

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-SHPPI M 6 | 6 way | 8+18 | 5,375 |
| C-SHPPI M 8 | 8 way | 8+24 | 6,384 |
| C-SHPPI M 12 | 12 way | 8+36 | 8,641 |
| C-SHPPI M 16 | 16 way | 8+48 | 10,319 |

### IP 43 Metal Door with Acrylic

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-SHPPI P 6 | 6 way | 8+18 | 6,038 |
| C-SHPPI P 8 | 8 way | 8+24 | 7,142 |
| C-SHPPI P 12 | 12 way | 8+36 | 10,008 |
| C-SHPPI P 16 | 16 way | 8+48 | 11,809 |

### IP 54

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-SHPPI M WP 6 | 6 way | 8+18 | 11,855 |
| C-SHPPI M WP 8 | 8 way | 8+24 | 13,100 |
| C-SHPPI M WP 12 | 12 way | 8+36 | 17,835 |
| C-SHPPI M WP 16 | 16 way | 8+48 | 21,201 |



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# Distribution Boards(Compact Range)

## Per Phase Isolation DB - C - SVDB

### IP 43 with Metal Door

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-SVDB M 6 | 6 way | 8+6+18 | 6,086 |
| C-SVDB M 8 | 8 way | 8+6+24 | 7,754 |
| C-SVDB M 12 | 12 way | 8+6+36 | 9,077 |

### IP 43 Metal Door with Acrylic

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-SVDB P 6 | 6 way | 8+6+18 | 6,765 |
| C-SVDB P 8 | 8 way | 8+6+24 | 8,609 |
| C-SVDB P 12 | 12 way | 8+6+36 | 10,020 |

## Vertical DB 8P I/C & SP/TP O/G - C - SVTDB

### IP 30

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-SVTDB WD 4 | 4 way | 8+12 | 6,117 |
| C-SVTDB WD 6 | 6 way | 8+18 | 6,766 |
| C-SVTDB WD 8 | 8 way | 8+24 | 7,540 |
| C-SVTDB WD 12 | 12 way | 8+36 | 10,884 |

### IP 43 with Metal Door

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-SVTDB M 4 | 4 way | 8+12 | 6,870 |
| C-SVTDB M 6 | 6 way | 8+18 | 8,208 |
| C-SVTDB M 8 | 8 way | 8+24 | 8,656 |
| C-SVTDB M 12 | 12 way | 8+36 | 11,588 |

### IP 43 Metal Door with Acrylic

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-SVTDB P 4 | 4 way | 8+12 | 8,792 |
| C-SVTDB P 6 | 6 way | 8+18 | 10,221 |
| C-SVTDB P 8 | 8 way | 8+24 | 11,173 |
| C-SVTDB P 12 | 12 way | 8+36 | 14,909 |

### IP 54

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-SVTDB M WP 4 | 4 way | 8+12 | 13,664 |
| C-SVTDB M WP 6 | 6 way | 8+18 | 15,696 |
| C-SVTDB M WP 8 | 8 way | 8+24 | 16,439 |
| C-SVTDB M WP 12 | 12 way | 8+36 | 21,902 |

# Distribution Boards(Compact Range)

## Vertical DB 160A MCCB I/C & SP/ TP MCB O/G - C - SVTDB T1

### IP 30

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-SVTDB WD 4 T1 | 4 way | T-max+12 | 6,985 |
| C-SVTDB WD 6 T1 | 6 way | T-max+18 | 8,141 |
| C-SVTDB WD 8 T1 | 8 way | T-max+24 | 8,347 |
| C-SVTDB WD 12 T1 | 12 way | T-max+36 | 12,501 |

### IP 43 with Metal Door

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-SVTDB M 4 T1 | 4 way | T-max+12 | 8,018 |
| C-SVTDB M 6 T1 | 6 way | T-max+18 | 9,470 |
| C-SVTDB M 8 T1 | 8 way | T-max+24 | 10,162 |
| C-SVTDB M 12 T1 | 12 way | T-max+36 | 13,526 |

### IP 54

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-SVTDB M WP 4T1 | 4 way | T-max+12 | 15,725 |
| C-SVTDB M WP 6T1 | 6 way | T-max+18 | - |
| C-SVTDB M WP 8T1 | 8 way | T-max+24 | 18,903 |
| C-SVTDB M WP 12T1 | 12 way | T-max+36 | 25,383 |

## Vertical DB 250A MCCB I/C & SP/TP MCB O/G - C - SVTDB T3

### IP 30

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-SVTDB WD 4 T3 | 4 way | 250A T-max+12 | 12,683 |
| C-SVTDB WD 6 T3 | 6 way | 250A T-max+18 | 13,786 |
| C-SVTDB WD 8 T3 | 8 way | 250A T-max+24 | 14,109 |
| C-SVTDB WD 12 T3 | 12 way | 250A T-max+36 | 15,587 |

### IP 43 with Metal Door

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-SVTDB M 4 T3 | 4 way | 250A T-max+12 | 15,339 |
| C-SVTDB M 6 T3 | 6 way | 250A T-max+18 | 16,675 |
| C-SVTDB M 8 T3 | 8 way | 250A T-max+24 | 18,054 |
| C-SVTDB M 12 T3 | 12 way | 250A T-max+36 | 18,854 |

### IP 54

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-SVTDB M WP 4 T3 | 4 way | 250A T-max+12 | 21,688 |
| C-SVTDB M WP 6 T3 | 6 way | 250A T-max+18 | 23,621 |
| C-SVTDB M WP 8 T3 | 8 way | 250A T-max+24 | 24,941 |
| C-SVTDB M WP 12 T3 | 12 way | 250A T-max+36 | 28,682 |


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# Distribution Boards(Compact Range)

## Phase Selector DB - C - SPVS

### IP 30

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-SPVS WD 4 | 4 way | 8+12 | 8,535 |
| C-SPVS WD 6 | 6 way | 8+18 | 9,077 |
| C-SPVS WD 8 | 8 way | 8+24 | 9,967 |
| C-SPVS WD 12 | 12 way | 8+36 | 11,042 |

### IP 43 with Metal Door

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-SPVS M 4 | 4 way | 8+12 | 9,514 |
| C-SPVS M 6 | 6 way | 8+18 | 9,664 |
| C-SPVS M 8 | 8 way | 8+24 | 10,548 |
| C-SPVS M 12 | 12 way | 8+36 | 11,819 |

## Flexy Tier DB - C - SVFL

### IP 43 with Metal Door

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-SVFL M 132 | 2 row of 13mod | 26 | 3,498 |
| C-SVFL M 133 | 3 row of 13mod | 39 | 4,134 |
| C-SVFL M 134 | 4 row of 13mod | 52 | 4,474 |
| C-SVFL M 142 | 2 row of 14mod | 28 | 4,691 |
| C-SVFL M 143 | 3 row of 14mod | 42 | 5,247 |
| C-SVFL M 144 | 4 row of 14mod | 56 | 5,512 |

### IP 43 Metal Door with Acrylic

| Type No. | No of Ways | No of Modules | M.R.P. (Rs) |
|---|---|---|---|
| C-SVFL P 132 | 2 row of 13mod | 26 | 3,512 |
| C-SVFL P 133 | 3 row of 13mod | 39 | 4,135 |
| C-SVFL P 134 | 4 row of 13mod | 52 | 4,659 |
| C-SVFL P 142 | 2 row of 14mod | 28 | 5,290 |
| C-SVFL P 143 | 3 row of 14mod | 42 | 5,878 |
| C-SVFL P 144 | 4 row of 14mod | 56 | 6,187 |

# Distribution Boards(Compact Range)

## Cable End Box

| Type No. | No of Ways | M.R.P. (Rs) |
|---|---|---|
| C-SHC WD 4/CEB | For 4 way SPN IP30 DB | 365 |
| C-SHC WD 6/CEB | For 6 way SPN IP30 DB | 404 |
| C-SHC WD 8/CEB | For 8 way SPN IP30 DB | 426 |
| C-SHC WD 10/CEB | For 10 way SPN IP30 DB | 473 |
| C-SHC WD 12/CEB | For 12 way SPN IP30 DB | 519 |
| C-SHC WD 14/CEB | For 14 way SPN IP30 DB | 577 |
| C-SHC WD 16/CEB | For 16 way SPN IP30 DB | 659 |
| C-SHC WD 20/CEB | For 20 way SPN IP30 DB | 732 |
| C-SHC M 4/CEB | For 4 way SPN IP 43 DB | 426 |
| C-SHC M 6/CEB | For 6 way SPN IP43 DB | 463 |
| C-SHC M 8/CEB | For 8 way SPN IP43 DB | 491 |
| C-SHC M 10/CEB | For 10 way SPN IP43 DB | 519 |
| C-SHC M 12/CEB | For 12 way SPN IP43 DB | 582 |
| C-SHC M 14/CEB | For 14 way SPN IP43 DB | 631 |
| C-SHC M 16/CEB | For 16 way SPN IP43 DB | 769 |
| C-SHC M 20/CEB | For 20 way TPN IP43 DB | 967 |
| C-SHDB WD 4/CEB | For 4 way TPN IP30 DB | 631 |
| C-SHDB WD 6/CEB | For 6 way TPN IP30 DB | 659 |
| C-SHDB WD 8/CEB | For 8 way TPN IP30 DB | 1,192 |
| C-SHDB WD 12/CEB | For 12 way TPN IP30 DB | 1,570 |
| C-SHDB WD 16/CEB | For 16 way TPN IP30 DB | 1,579 |
| C-SHDB M 4/CEB | For 4 way TPN IP43 DB | 734 |
| C-SHDB M 6/CEB | For 6 way TPN IP43 DB | 769 |
| C-SHDB M 8/CEB | For 8 way TPN IP43 DB | 1,369 |
| C-SHDB M 12/CEB | For 12 way TPN IP43 DB | 1,808 |
| C-SHDB M 16/CEB | For 16 way TPN IP43 DB | 1,808 |
| C-SHPPI WD 6/CEB | For 6way PPI IP30 DB | 751 |
| C-SHPPI WD 8/CEB | For 8way PPI IP30 DB | 1,192 |
| C-SHPPI WD 12/CEB | For 12way PPI IP30 DB | 1,579 |
| C-SHPPI WD 16/CEB | For 16way PPI IP30 DB | 1,579 |
| C-SHPPI M 6/CEB | For 6way PPI IP43 DB | 841 |
| C-SHPPI M 8/CEB | For 8way PPI IP43 DB | 1,369 |
| C-SHPPI M 12/CEB | For 12way PPI IP43 DB | 1,808 |
| C-SHPPI M 16/CEB | For 16way PPI IP43 DB | 1,808 |
| C-SVDB M 6/CEB | For 6way SVDB IP43 DB | 770 |
| C-SVDB M 8/CEB | For 8way SVDB IP43 DB | 913 |
| C-SVDB M 12/CEB | For 12way SVDB IP43 DB | 1,052 |
| C-SVFL 13M/CEB | For all SVFL 13Mod DBs | 814 |
| C-SVFL 14M/CEB | For all SVFL 14Mod DBs | 870 |
| C-SVTDB WD /CEB | For all SVTDBs(IP30DBs) | 477 |
| C-SVTDB M/CEB | For all SVTDBs(IP43DBs) | 525 |
| C-SVTDB WD T1/CEB | For all SVTDB T1(IP30 DBs) | 1,767 |
| C-SVTDB WD T3/CEB | For all SVTDB T3 DBs(IP30 DBs) | 2,202 |
| C-SVTDB M T1/CEB | For all SVTDB T1 DBs(IP43DBs) | 1,976 |
| C-SVTDB MT3/CEB | For all SVTDB T3 DBs(IP43DBs) | 2,523 |


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