pressfit®

SFT1™
CIRCUIT BREAKERS

THE ORANGE LINE
OF SAFETY!

Circuit Breakers
SG-01 v12
20th December 2024

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Protect What's Valuable

SFT1™ CIRCUIT BREAKERS

As is the norm for many decades, electricity forms the core of our existence. In one form or the other, electrical systems have touched every aspect of our lives and continue to grow faster than ever before. With the advent of Internet of Things (IoT), the load on electrical systems and the criticality increases even more! With heavier loads, come greater safety requirements. Pressfit's range of SFT1 Circuit Breakers are designed to protect humans as well as appliances from the dangerous side of electricity. Placing safety above all, SFT1 MCBs, RCCBs, Isolators, and Changeover Switches are engineered to deliver quicker fail-overs and safer protection standards.

MCB

Miniature Circuit Breakers (MCB)

Overloading and fluctuation in electric supply can be dangerous to humans as well as appliances. To mitigate these risks, installation of miniature circuit breakers or MCBs is necessary. Designed, engineered, and made in India, Pressfit's SFT1 MCBs deliver optimum security to your premises 24x7! In the event of an overload or a short-circuit, SFT1 MCBs safely cut the connected circuit almost instantaneously. Precious lives and equipment are protected not just from electrical damage, but also from fires that are mostly caused by short circuits. Equipped with a High-Speed and High Breaking Capacity Mechanism, and a high short circuit breaking capacity of 10000A (10kA), SFT1 circuit breakers adhere to the IS/IEC 60898-1 norms and are the perfect fit for your heavy electrical appliances.

Virgin, Fire-Retardant Nylon Body

HSN: 85362030

Technical Specifications

Standard Conformity	IS/IEC 60898-1-2008, DIN 43-880		
Standard Rated Current (I_n)	6A to 63A		
Rated Short Circuit Capacity (I_{cn})	10000A (10kA)		
Service Short Circuit Capacity (I_{cs})	7500A (7.5kA)		
Energy Limiting Class	Class 3		
Magnetic Release Setting	B Curve (3-5) I_n	C Curve (5-10) I_n	
Poles	B Curve SP	C Curve SP, SP+N, DP, TP, TP+N, FP	
Rated Operational Voltage (Ue)	SP, TP+N 240/415 V AC	SP+N 240 V AC	DP, TP, FP 415 V AC
Rated Insulation Voltage (Ui)	660 V AC		
Rated Impulse Voltage (Uimp)	4kV		
Rated Frequency (f)	50Hz		
Dielectric Strength	2000V for 1 minute		
Protection Class	IP20		
Tripping Mechanism	Thermal and Magnetic Type		
Normal Operating Conditions	10°C to 60°C, RH <85%, <2000 m Altitude		
Endurance (Mechanical)	20000 operations		
Endurance (Electrical)	20000 operations (I_n < 32A) 10000 operations (I_n > 32A)		
Contact Indication	Red – On, Green - Off		
Terminal Capacity	35 sq. mm		
Power Loss	Much less than IS/IEC Standards		
Mounting	On DIN Rail (35 mm x 7.5 mm)		

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RCCB

Residual Current Circuit Breakers (RCCB)

Pressfit's SFT1 Residual current circuit breakers (RCCB) protect people from the risks of electrocution and fires caused due to faulty wiring, poorly insulated equipment, sudden earth faults, or incorrect use of an electrical device. These mistakes cause current to flow in reverse to the earth, which is called an 'Earth Leakage Current', and it is an electrical hazard. The RCCB immediately trips when an imbalance in electric current is detected, protecting us from direct and/or indirect contacts. Pressfit's SFT1 RCCB adhere to the IS/IEC 12640-1 norms and one of the greatest advantages is that it takes only about 20 milliseconds to trip and take the control over the imbalanced electric current.

Virgin, Fire-Retardant Nylon Body

HSN: 85362030

Technical Specifications

Reference Standard	IS 12640-1:2000, IEC 61008, DIN 43-880
Poles	DP & FP
Current Rating (I_n)	25A, 40A & 63A
Rated Voltage (U_e)	DP: 240 V AC, FP: 240/415 V AC
Rated Residual Operating Current ($I_{\Delta n}$)	30mA, 100mA & 300mA
Protection	Against Earth Fault / Leakage Current
Operating Device	Current Operating Device
Rated Frequency (f)	50 Hz
Rated Impulse Voltage	4 kV
Short Circuit Withstanding Capacity	DP: 10 kA, FP: 6 kA
Rated Insulation Voltage (U_i)	440 V
Rated Conditional Short Circuit Current (I_{nc})	DP: 10 kA, FP: 6 kA
Rated Making and Breaking Capacity (I_m)	500A or 10In whichever is greater
Operating Characteristic	AC Type
Dielectric Strength	2 kV 1min.
Trip Time	Instantaneous <40ms, Selective > 150ms
Normal Operating Conditions	10˚C to 60˚C, RH <85%, <2000 m Altitude
Terminal Capacity	35 sq. mm Copper
Vibration	3g
Protection Class	IP20
Contact Position Indication	Yes
Installation Position	Vertical / Horizontal
Mounting	Clip on DIN rail (35 mm * 7.5 mm)

CHANGEOVER

HSN: 85362030

MCB Changeover Switch

Pressfit's SFT1 MCB Changeover Switch (COS) enables us to switch the load between two power supplies. In most cases, the COS is used to switch to a backup line when the main line needs to be taken offline for repair and maintenance. It is widely used in industries and in domestic locations where continuity of supply is necessary. It finds a lot of use in individual bungalows due to the same reason.

Changeover switches, in principle, disconnect switches independently based on manual operation, and can make, carry, and break currents under normal circuit conditions. The COS has 3 positions – I-O-II with the center line being the off. The SFT1 COS comes in 2 types - DP and FP – for single and three phase applications respectively.

Virgin, Fire-Retardant Nylon Body

Technical Specifications

Reference Standard	IS/IEC 60947-3
Poles	DP, FP
Current Rating (I_n)	25A, 40A, 63A
Rated Voltage (U_e)	240/415V AC
Rated Frequency (f)	50 Hz
Utilization Category	AC 22A
Rated Insulation Voltage (U_i)	660V AC
Rated Impulse Voltage (U_{imp})	4 kV
Operating Temperature	-5 to 50 C
Dielectric Strength	2500V 1 min.
Relative Humidity	95%
Protection Class	IP20
Contact Position Indication	Yes
Mounting	Clip on DIN rail (35 mm * 7.5 mm)

Installation:

1. Switch off the MCB and disconnect the power supply.
2. Mount the COS over DIN rail with snap at bottom.
3. Check the operation and the knob positions before connecting the cables.
4. When the knob position is I:
   a. Top indicator is RED, Bottom indicator is GREEN b. Load is connected through power supply I
5. When the knob position is II:
   a. Top indicator is GREEN, Bottom indicator is RED b. Load is connected through power supply II
6. When the knob is at the MID position, both indicators show GREEN & it is a No-Load / Off position.
7. Connect the cables at the incoming and outgoing terminals
8. Select power supply (I or II) for the load.
9. Switch the MCB on.

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ISOLATOR

Isolator

An isolator switch isolates or disconnects the circuit from the mains and gets rid of the trapped charges of the circuit. This is necessary to carry out repairs and maintenance in the electrical setup. An isolator ensures that there will be no current at the load side even if an impulse voltage appears when the isolator is switched off. Isolators are generally used at the end of the breaker to repair or to replace. Pressfit's SFT1 Isolators are perfect companions for ensuring the complete de-energisation of the electrical circuits of residences and/or commercial premises. They can be safely used as incomers and are made in reference to the IS/IEC 60947-3 norms. These are equipped with Silver alloy contacts for weld-free operations and form the perfect fitments as incomers for individual residences.

Virgin, Fire-Retardant Nylon Body

HSN: 85362030

Technical Specifications

Reference Standard	IS/IEC 60947-3
Poles	DP, TP & FP
Current Rating (I_n)	40A, 63A, 100A, and 125A
Rated Voltage (U_e)	240/415V AC
Rated Frequency (f)	50 Hz
Utilization Category	AC 22A
Rated Insulation Voltage (U_i)	660 V
Rated Impulse Voltage (U_{imp})	6 kV
Operating Temperature	-5 to 50 C
Dielectric Strength	2000V 1 min.
Relative Humidity	95%
Vibration	3 g
Protection Class	IP20
Contact Position Indication	Yes
Termination	Bi-connect (bus bar/cable) ≤ 63A Cable ≥ 63A
Terminal Capacity	40A/63A: 4 sq. mm to 35 sq. mm for Cu conductors 100A: 10 sq. mm to 50 sq. mm for Cu conductors
Design	Double-break contact design
Mounting	Clip on DIN rail (35 mm * 7.5 mm)
Installation Position	Vertical/Horizontal
Case and cover Material	Moulded, Flame Retardant Plastic

MINI MCB

Mini MCB

Pressfit's SFT1 Mini MCBs are designed to protect household appliances from electrical overloads and short circuits. As their name suggests, mini MCBs are very compact – fitting in the safety features of the traditional MCB in the form factor of everyday switches and sockets.

Our Mini MCBs are available in both modular – compatible with our One and Edge range of modular plates – as well as non-modular form – to be affixed on switchboards with screws. Mini MCBs provide per-point protection to your devices while being economical – as it can save you the expense of a Surface DP Switch or separate board.

Features:

- Protects against overload and short-circuit
- Low Power Loss in operation
- Variants available for modular plates as well as non-modular boards
- Can be used for per-point protection
- Compact and Aesthetic Design with latest technology
- Long electrical and mechanical life

HSN: 85361020

Applications:

- DOMESTIC: Air Conditioners, Refrigerators, Geysers, Washing Machines, Home Theaters, Domestic Pump sets, Microwave Ovens, Grillers, Single Phase Motors, etc
- COMMERCIAL: AC, Hot Plate, Xerox machines, Diffusers
- HOSPITALITY: AC, Heaters, Coolers, Heavy-Duty Mixers, Cooking Equipment
- HEALTHCARE: Low-Watt X-Ray Machines, Laboratory Equipment in Individual Clinics

Technical Specifications:

Standard Conformity: IS/IEC 60898-1 (2008)
Rated Short-Circuit Capacity (I_{cn}): 3000A (3kA)
Service Short-Circuit Capacity (I_{cs}): 1500A (1.5kA)
Energy-Limiting Class: Class 3
Magnetic Release Setting: C Curve
Rated Operational Voltage: SP – 240/415V AC, DP – 415V AC

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FUSES

HSN: 85361020

Porcelain Kit-Kat Fuses

Pressfit's Porcelain Kit-Kat Fuses are designed for reliable and robust operation. To protect valuable appliances against power surges and overloads, our fuses are made using the finest anti-degradant, high-glaze porcelain, and top-notch brass connectors. The fuses are rewireable, are easy-to-install and are meant for domestic wiring and small-scale usage.

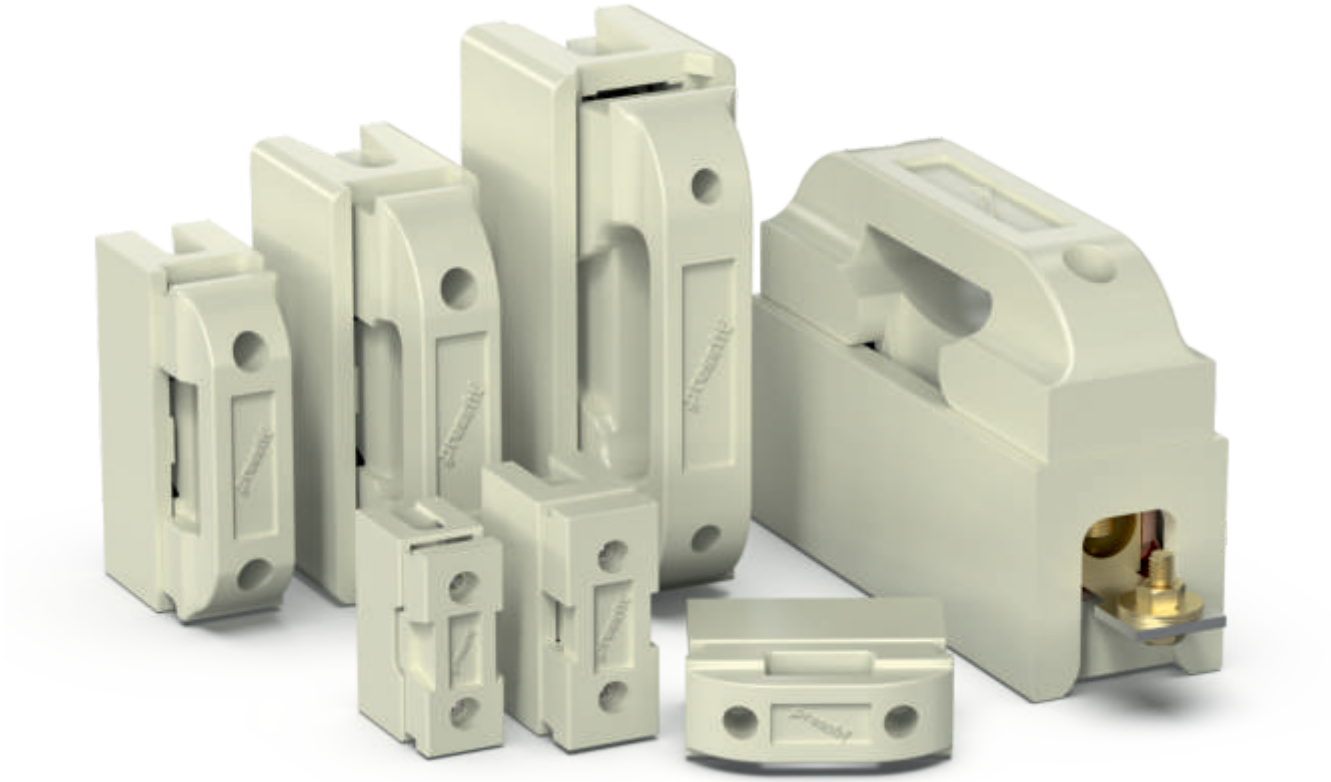
The way these fuses work is very different from MCBs. The metal fuse wire is the critical component for the product. If too much current passes through it, the wire melts and breaks the circuit.

There are two parts in kit kat fuse – fuse carrier (top) and fuse base (bottom). The metal contacts are fixed in the base and incoming/outgoing wires are attached to these contacts. The circuit is completed when the top is inserted into the base, connecting the load-side circuit to the source-side circuit. The main advantage of this type of fuse is that it can be easily disconnected from the circuit without any risk of coming in contact with the live wire.

- Anti Degradant
- High-Glaze Porcelain
- Reliable Brass Connectors
- Easy to Install
- Rewireable

Alternative to MCBs

MCBs have many advantages over porcelain fuses but still, fuses serve as a better alternative for many purposes. They generally have a lesser operating time and are more cost-effective than MCBs. They also offer more flexibility as they can be changed to operate at a different load capacity temporarily. This can be done by changing the thickness of the fuse wire used.



B-Type

Code	Description	Rating	LP (₹)	PKG. (N)
817105	B6 SP	6A	150.00	12
817107	B10 SP	10A	150.00	12
817109	B16 SP	16A	150.00	12
817110	B20 SP	20A	150.00	12
817111	B25 SP	25A	150.00	12
817112	B32 SP	32A	150.00	12

SP MCB PRO

C-Type

Code	Description	Rating	LP (₹)	PKG. (N)
810105	C6 SP	6A	150.00	12
810107	C10 SP	10A	150.00	12
810109	C16 SP	16A	150.00	12
810110	C20 SP	20A	150.00	12
810111	C25 SP	25A	150.00	12
810112	C32 SP	32A	150.00	12
810113	C40 SP	40A	200.00	12
810115	C63 SP	63A	205.00	12

SP MCB

C-Type

Code	Description	Rating	LP (₹)	PKG. (N)
810505	C6 SPN	6A	330.00	6
810507	C10 SPN	10A	330.00	6
810509	C16 SPN	16A	330.00	6
810510	C20 SPN	20A	330.00	6
810511	C25 SPN	25A	330.00	6
810512	C32 SPN	32A	330.00	6
810513	C40 SPN	40A	490.00	6
810515	C63 SPN	63A	500.00	6

SPN MCB

C-Type

Code	Description	Rating	LP (₹)	PKG. (N)
810205	C6 DP	6A	330.00	6
810207	C10 DP	10A	330.00	6
810209	C16 DP	16A	330.00	6
810210	C20 DP	20A	330.00	6
810211	C25 DP	25A	330.00	6
810212	C32 DP	32A	330.00	6
810213	C40 DP	40A	490.00	6
810215	C63 DP	63A	500.00	6

DP MCB

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TP MCB

Code	Description	Rating	LP (₹)	PKG. (N)
810305	C6 TP	6A	540.00	4
810307	C10 TP	10A	540.00	4
810309	C16 TP	16A	540.00	4
810310	C20 TP	20A	540.00	4
810311	C25 TP	25A	540.00	4
810312	C32 TP	32A	540.00	4
810313	C40 TP	40A	790.00	4
810315	C63 TP	63A	800.00	4

C-Type

TPN MCB

Code	Description	Rating	LP (₹)	PKG. (N)
810605	C6 TPN	6A	780.00	3
810607	C10 TPN	10A	780.00	3
810609	C16 TPN	16A	780.00	3
810610	C20 TPN	20A	780.00	3
810611	C25 TPN	25A	780.00	3
810612	C32 TPN	32A	780.00	3
810613	C40 TPN	40A	985.00	3
810615	C63 TPN	63A	995.00	3

C-Type

FP MCB

Code	Description	Rating	LP (₹)	PKG. (N)
810405	C6 FP	6A	780.00	3
810407	C10 FP	10A	780.00	3
810409	C16 FP	16A	780.00	3
810410	C20 FP	20A	780.00	3
810411	C25 FP	25A	780.00	3
810412	C32 FP	32A	780.00	3
810413	C40 FP	40A	985.00	3
810415	C63 FP	63A	995.00	3

C-Type

Code	Description	LP (₹)	PKG. (N)
813201	25A DP (30 mA)	1600.00	6
813221	40A DP (30 mA)	1600.00	6
813241	63A DP (30 mA)	2100.00	6
813202	25A DP (100 mA)	1600.00	6
813222	40A DP (100 mA)	1600.00	6
813242	63A DP (100 mA)	2100.00	6
813223	40A DP (300 mA)	1600.00	6
813243	63A DP (300 mA)	2100.00	6

DP RCCB

Code	Description	LP (₹)	PKG. (N)
813401	25A FP (30 mA)	2000.00	3
813421	40A FP (30 mA)	2000.00	3
813441	63A FP (30 mA)	2600.00	3
813402	25A FP (100 mA)	2000.00	3
813422	40A FP (100 mA)	2000.00	3
813442	63A FP (100 mA)	2600.00	3
813423	40A FP (300 mA)	2000.00	3
813443	63A FP (300 mA)	2600.00	3

FP RCCB

Code	Description	LP (₹)	PKG. (N)
814211	25A DP COS	540.00	6
814213	40A DP COS	725.00	6
814215	63A DP COS	1000.00	6

DP COS

Code	Description	LP (₹)	PKG. (N)
814411	25A FP COS	1020.00	3
814413	40A FP COS	1500.00	3
814415	63A FP COS	1800.00	3

FP COS

DP ISO

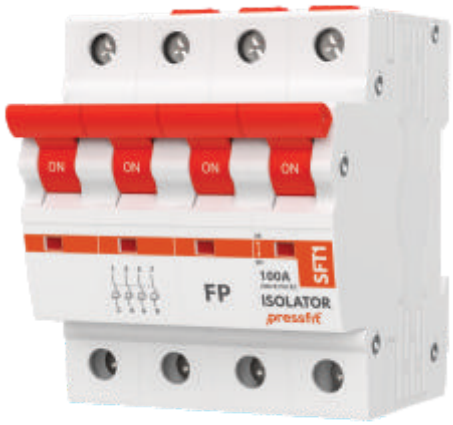
Code	Description	LP (₹)	PKG. (N)
812213	40A DP ISO	320.00	6
812215	63A DP ISO	400.00	6
812217	100A DP ISO	560.00	6

TP ISO

Code	Description	LP (₹)	PKG. (N)
812313	40A TP ISO	565.00	4
812315	63A TP ISO	670.00	4
812317	100A TP ISO	840.00	4

FP ISO

Code	Description	LP (₹)	PKG. (N)
812413	40A FP ISO	700.00	3
812415	63A FP ISO	800.00	3
812417	100A FP ISO	1000.00	3



Non-Modular Mini MCB

Compatible With
GOLD SWITCHES GLORY SWITCHES

Code	Description	LP (₹)	PKG. (N)
806105	6A SP MINI	165.00	10
806107	10A SP MINI	165.00	10
806109	16A SP MINI	165.00	10
806110	20A SP MINI	165.00	10
806111	25A SP MINI	165.00	10
806112	32A SP MINI	165.00	10

SP MINI MCB

Code	Description	LP (₹)	PKG. (N)
806209	16A DP MINI	330.00	10
806210	20A DP MINI	330.00	10
806211	25A DP MINI	330.00	10
806212	32A DP MINI	330.00	10

DP MINI MCB

Porcelain Kit-Kat Fuses

Code	Description	LP (₹)	PKG. (N)
598100	16A 240V	77.00	10
598110	16A 415V	131.00	10
598120	32A 415V	240.00	5
598130	63A 415V	600.00	1
598140	100A 415V	1060.00	1

KIT KAT FUSES

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Distribution Boards

ARMOR SPN DB
(METAL BACK)

Code	Description	LP (₹)	PKG. (N)
801510	4 Way	**1100.00**	1
801520	6 Way	**1250.00**	1
801530	8 Way	**1400.00**	1
801540	12 Way	**1800.00**	1

HSN: 85371000

DIYA DB

Code	Description	LP (₹)	PKG. (N)
801212	4 Way	**477.00**	1
801222	6 Way	**540.00**	1
801232	8 Way	**688.00**	1
801252	12 Way	**1058.00**	1
801262	16 Way	**1323.00**	1

HSN: 85371000

DIYA PLUS DB
(METAL BACK)

Code	Description	LP (₹)	PKG. (N)
801310	4 Way	**683.00**	1
801320	6 Way	**765.00**	1
801330	8 Way	**983.00**	1
801350	12 Way	**1475.00**	1
801360	16 Way	**1803.00**	1

HSN: 85371000

SAFARI SPN DB

Code	Description	LP (₹)	PKG. (N)
801312	4 Way	**730.00**	1
801322	6 Way	**850.00**	1
801332	8 Way	**944.00**	1
801342	10 Way	**1049.00**	1
801352	12 Way	**1153.00**	1
801362	16 Way	**1359.00**	1

HSN: 85371000

GOLD SPN DB

Code	Description	LP (₹)	PKG. (N)
801012	4 Way	**1019.00**	1
801022	6 Way	**1187.00**	1
801032	8 Way	**1385.00**	1
801042	10 Way	**1558.00**	1
801052	12 Way	**1681.00**	1
801062	16 Way	**2176.00**	1

HSN: 85371000

GOLD TPN DB

Code	Description	LP (₹)	PKG. (N)
801412	4 Way	**2827.00**	**1**
801422	6 Way	**3410.00**	**1**
801432	8 Way	**4015.00**	**1**
801452	12 Way	**5500.00**	**1**

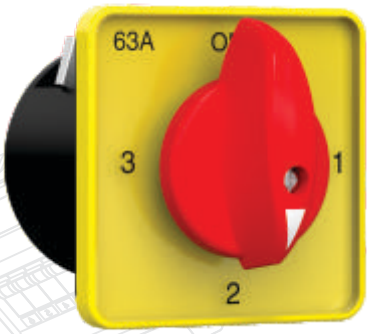
HSN: 85371000

R-F SWITCH

Code	Description	LP (₹)	PKG. (N)
971010	16A R-F Switch	**500.00**	**1**
971020	25A R-F Switch	**675.00**	**1**
971030	32A R-F Switch	**750.00**	**1**

Reverse-Forward Switches

HSN: 85365020



PHASE SEL. SWITCH

Code	Description	LP (₹)	PKG. (N)
972120	IP 3 Way 25A	**275.00**	**10**
972130	IP 3 Way 32A	**275.00**	**10**
972140	IP 3 Way 40A	**475.00**	**5**
972150	IP 3 Way 63A	**475.00**	**5**
972220	IP 4 Way 25A	**325.00**	**10**
972230	IP 4 Way 32A	**325.00**	**10**
972240	IP 4 Way 40A	**540.00**	**5**
972250	IP 4 Way 63A	**540.00**	**5**

HSN: 85365020

MCB Metal Enclosures

GOLD ME
(w/o N-LINK & BUS BAR)

Code	Description	LP (₹)	PKG. (N)
802013	1 Way	240.00	1
802023	2 Way	240.00	1
802033	3 Way	347.00	1
802043	4 Way	347.00	1
802053	6 Way	385.00	1
802063	8 Way	440.00	1
802073	10 Way	440.00	1
802083	12 Way	715.00	1
802093	16 Way	1000.00	1

HSN: 85381090

NICO ME
(w/o N-LINK & BUS BAR)

Code	Description	LP (₹)	PKG. (N)
802120	2 Way	270.00	1
802140	4 Way	350.00	1

HSN: 85381090

TONI ME
(w/o N-LINK & BUS BAR)

Code	Description	LP (₹)	PKG. (N)
802320	2 Way	270.00	1
802340	4 Way	350.00	1

HSN: 85381090

ROBIN ME
(w/o N-LINK & BUS BAR)

Code	Description	LP (₹)	PKG. (N)
802220	2 Way	290.00	1
802240	4 Way	380.00	1

HSN: 85381090

Operating Principle and Specifications

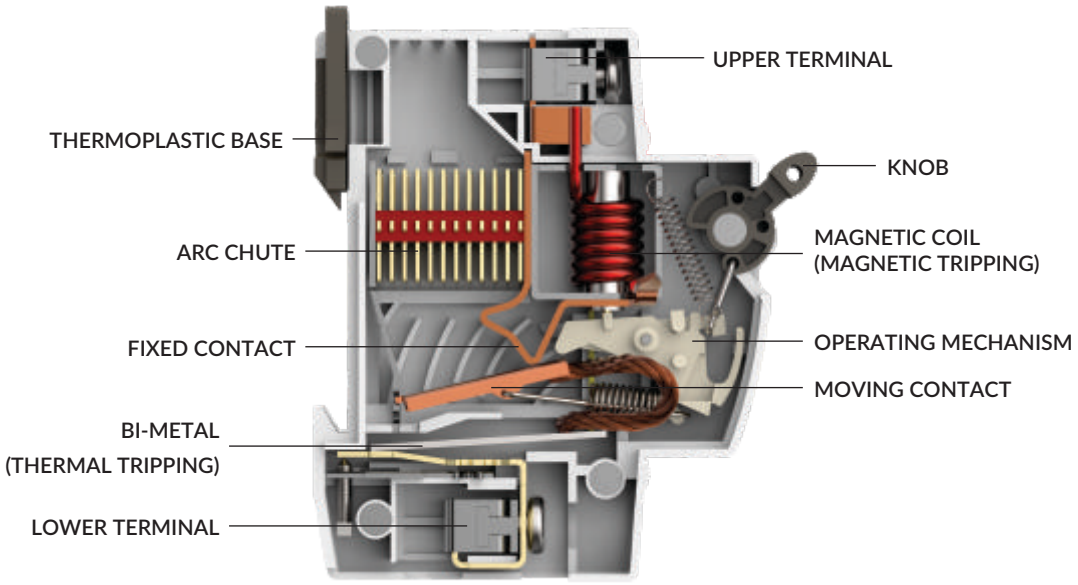
MCB

MCB Tripping Mechanism

The tripping mechanism of Pressfit MCBs is Thermal-Magnetic Type. Fast mechanism design enables fastest tripping of the Pressfit MCB.

Thermal Operation (Overload Protection): The thermal operation protects the circuit from moderate overloads. Under overload condition, a thermo-metallic element (bimetallic strip) deflects until it operates a latching mechanism allowing the main contacts to open. The overload protection works only up to the level where magnetic tripping starts.

Magnetic Operation (Short-Circuit Protection): In magnetic operation, large overloads or short circuit current actuates a solenoid causing a plunger to strike the latching mechanism, rapidly opening the main contacts.



Tripping Characteristics: Based on the tripping characteristics, Pressfit MCBs are available in B, C, and D Curves to suit different types of applications. (There is no Type A instantaneous tripping characteristic to avoid confusion with the A abbreviation for amperes.)

B Curve: For protection of electrical circuits with equipment that do not cause surge currents (for lighting and distribution circuits). Short circuit release is set to 3-5 times the rated current (In).

C Curve: For protection of electrical circuits with equipment that cause surge current (inductive loads and motor circuits). Short circuit release is set to 5-10 times the rated current (In).

D Curve: For protection of electrical circuits with equipment which cause high inrush current, typically 12-15 times the thermal rated current (transformers, large winding motors, X-ray machines, etc). Short circuit release is set to 10-20 times the rated current (In).

Selection of Wire/Cable for MCBs, Isolators, and RCCBs

Rated Current (In)	Wire Size	Rated Current (In)	Wire Size
< = 6A	1.0 sq. mm	32 - 50A	10 sq. mm
6 - 13A	1.5 sq. mm	50 - 63A	16 sq. mm
13 - 20A	2.5 sq. mm	63 - 80A	25 sq. mm
20 - 25A	4.0 sq. mm	80 - 100A	35 sq. mm
25 - 32A	6.0 sq. mm	100 - 125A	50 sq. mm

Operating Principle and Specifications

RCCB

Leakage Current and Risks Involved:

The flow of current while using an electrical device always involves risk. Poorly insulated apparatus, faulty wires or improper usage of the device may cause the current to flow through the wrong path. This is called Leakage Current. There are two major risks involved with Leakage Current: Fire Hazards and Electrocution.

Sensitivity Application Selection Criterion of RCCB

Application	RCCB Rating (mA)
Human Protection / Domestic Installation	30mA
Limited Human Protection / Machine Protection	100mA
Building / Fire	300mA

Important Note: Under the Indian Electricity Rules [rules 61 (A), 71 (1) and 73 (1)], installation of an RCCB is mandatory in all installations of 5 KW and above, in all luminous tube signs and X-ray installations. The Bureau of Indian Standards also recommends that RCCBs installed at construction sites, temporary installations, agriculture, and horticulture premises, **limiting the residual current to 30 mA.**

Fault Finding when RCCB Trips

Identifying earth leakage fault with RCCBs is very simple. First, switch off all the Switches/MCBs, switch the RCCB ON and then switch on the remaining switches one after the other. When you find the RCCB trips repeatedly on switching one circuit on, you have found the faulty circuit. This is the quickest way to identify a faulty circuit/appliance. You can then isolate that faulty circuit, rectify the fault and switch ON the RCCB.

Voltage Independent

RCCB is not voltage dependent and it's a purely current-operated circuit breaker. It does not trip if voltage drops, thus providing protection against leakage current at reduced voltage too.

Selection of Wire/Cable for MCBs, Isolators, and RCCBs

Rated Current (In)	Wire Size	Rated Current (In)	Wire Size
< = 6A	1.0 sq. mm	32 - 50A	10 sq. mm
6 - 13A	1.5 sq. mm	50 - 63A	16 sq. mm
13 - 20A	2.5 sq. mm	63 - 80A	25 sq. mm
20 - 25A	4.0 sq. mm	80 - 100A	35 sq. mm
25 - 32A	6.0 sq. mm	100 - 125A	50 sq. mm

MCB Selection Chart

APPLIANCES		LOAD-WATTAGE	MCB RATING	TYPE OF MCB	WIRE SIZE
Air Conditioner		1 Ton	10A	C	2.5 sq. mm
		1.5 Ton	16A	C	4.0 sq. mm
		2 Ton	20A	C	4.0 sq. mm
Immersion Rod		1000W	6A	B	1.5 sq. mm
Water Heater	8 Ltrs	1200-2000W	12A	B	2.5 sq. mm
	15 Ltrs	3000W-4000W	20A	B	6.0 sq. mm
	60 Ltrs	4000W-6000W	32A	B	10 sq. mm
Room Heater		1000W	6A	B	1.5 sq. mm
		2000W	10A	B	2.5 sq. mm
Refrigerator	165 Ltrs	400W	3A	C	1.5 sq. mm
	285 Ltrs	600W	4A	C	1.5 sq. mm
	350 Ltrs	750W	6A	C	1.5 sq. mm
Oven Cum Griller		1750W	10A	B	2.5 sq. mm
		4500W	20A	B	4.0 sq. mm
Microwave		800W	6A	B	1.5 sq. mm
Iron		750W	6A	B	1.5 sq. mm
		1250W	7.5A	B	2.5 sq. mm
Electric Kettle		1500W	7.5A	B	2.5 sq. mm
Mixer Grinder		200W	1.5A	C	1.0 sq. mm
		400W	3A	C	1.0 sq. mm
Washing Machine		300W	2A	C	1.0 sq. mm
		1300W	7.5A	C	1.5 sq. mm
		1800W	10A	C	2.5 sq. mm
		2200W	16A	C	4.0 sq. mm
Water Filter		500W	3A	C	1.0 sq. mm
Water Cooler		700W	6A	B	1.5 sq. mm
Hair Dryer		1000W	6A	B	1.5 sq. mm
Auto Toaster		1200W	7A	B	1.5 sq. mm
Vacuum Cleaner		400W	3A	B	1.0 sq. mm
TV		200W	1A	B	1.0 sq. mm
Fan		60W	*	B	1.0 sq. mm
Lamp, Tubelight		40W	*	B	1.0 sq. mm

Formula For Load Calculation:

- Incomer Rating: Single Phase*

$$= \frac{\text{Total Load in Watts}}{230 \text{ Volts}}$$

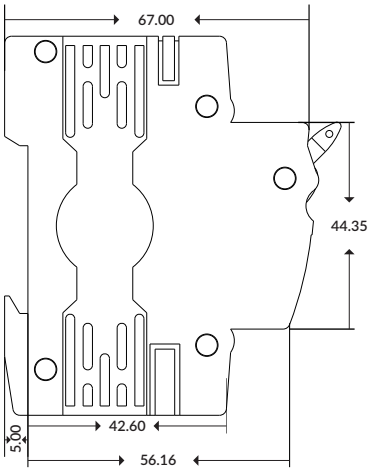
- Incomer Rating: Three Phase*

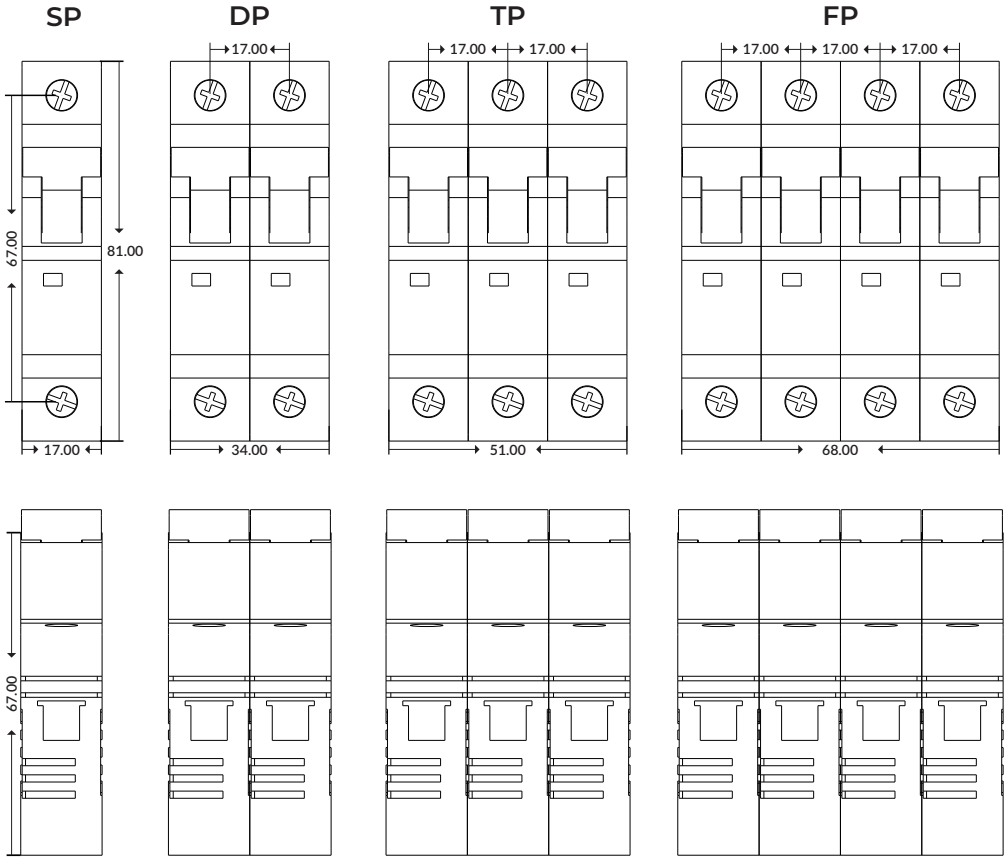
$$= \frac{\text{Total Load in Watts}}{\sqrt{3} \text{ X } 415 \text{ Volts}}$$

* The given data is for guidance only. It may vary for different products. The company will not take any responsibility for these selections.

Miniature Circuit Breaker (MCB)

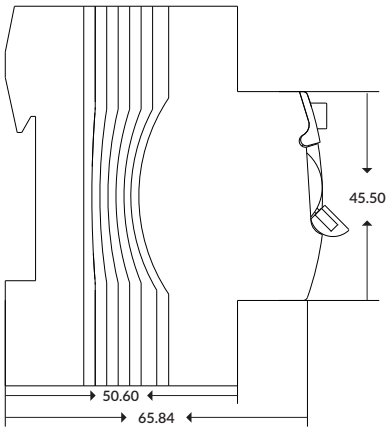
Dimensions (mm) - H x W x D
SP: 81 x 17 x 67
DP: 81 x 34 x 67
TP: 81 x 51 x 67
FP: 81 x 68 x 67

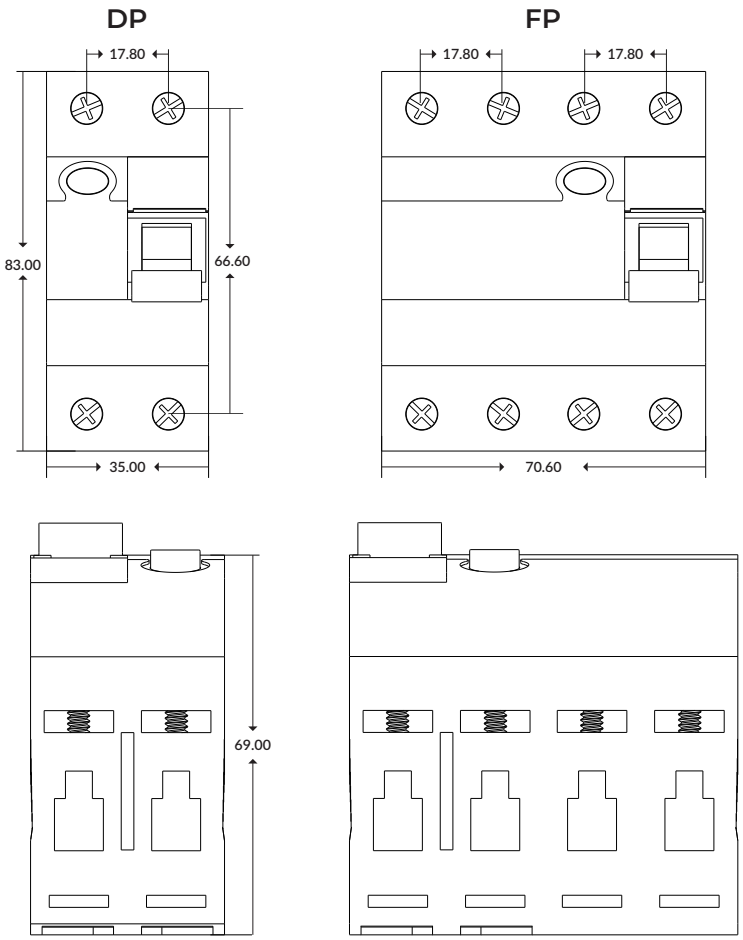




Residual Current Circuit Breaker (RCCB)

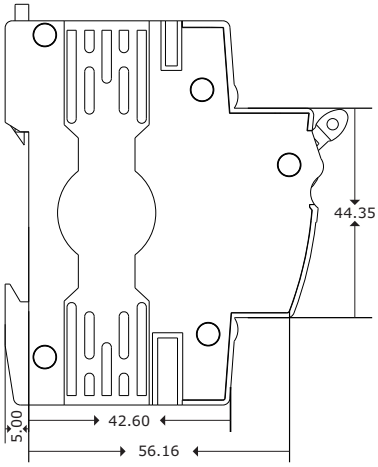
Dimensions (mm) - H x W x D
DP: 83 x 35 x 69
FP: 83 x 71 x 69

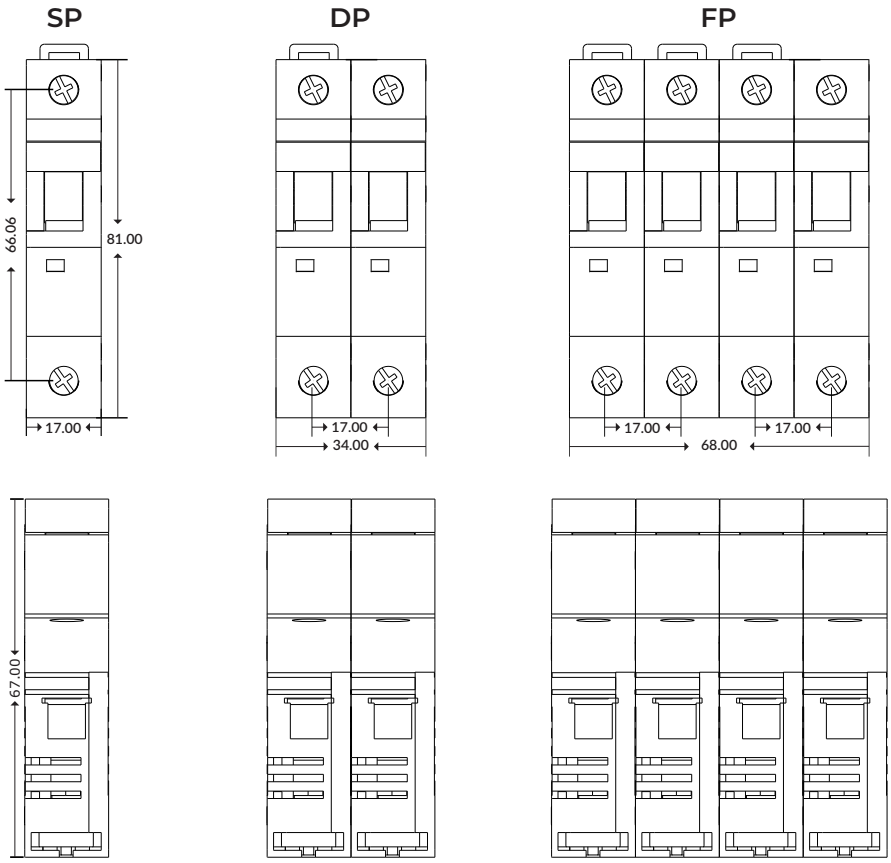




Isolator (ISO)

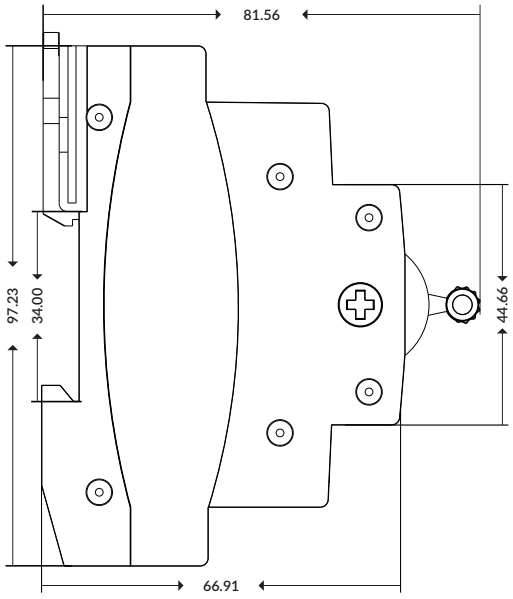
Dimensions (mm) - H x W x D
DP: 81 x 17 x 67
TP: 81 x 34 x 67
FP: 81 x 68 x 67

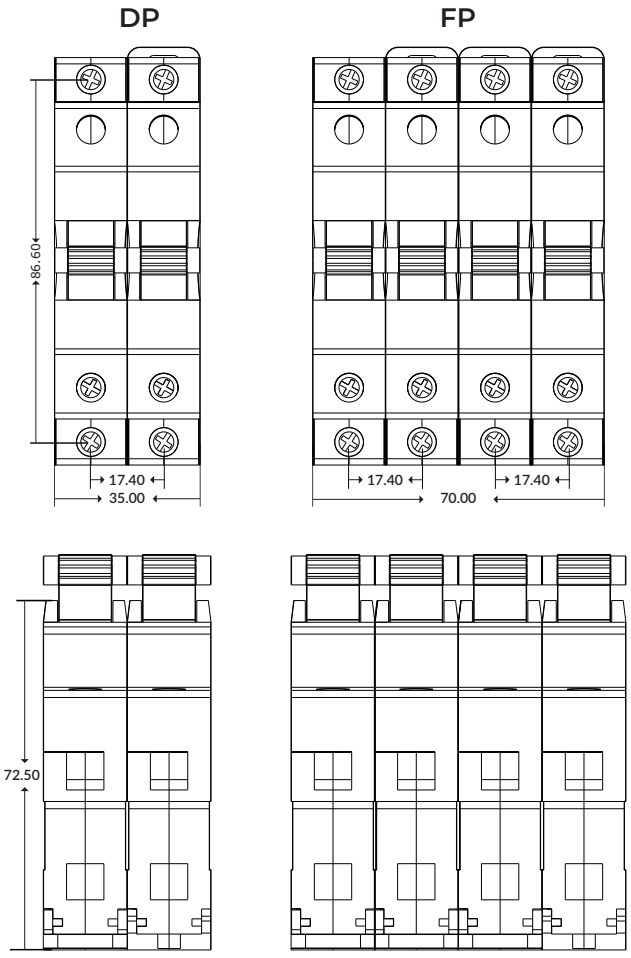




MCB Changeover Switch (COS)

Dimensions (mm) - H x W x D
DP: 97 x 35 x 72.5
FP: 97 x 70 x 72.5





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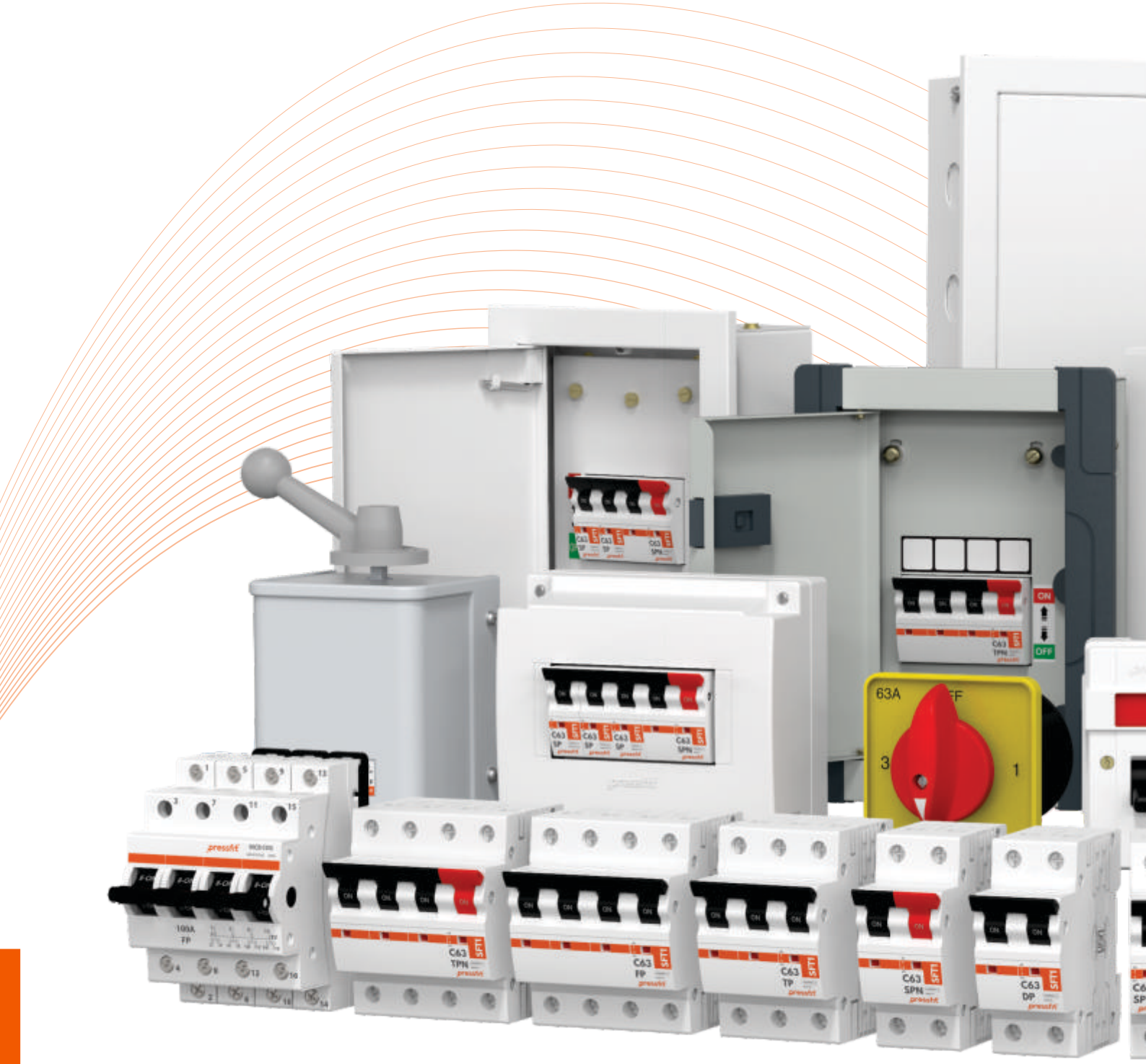
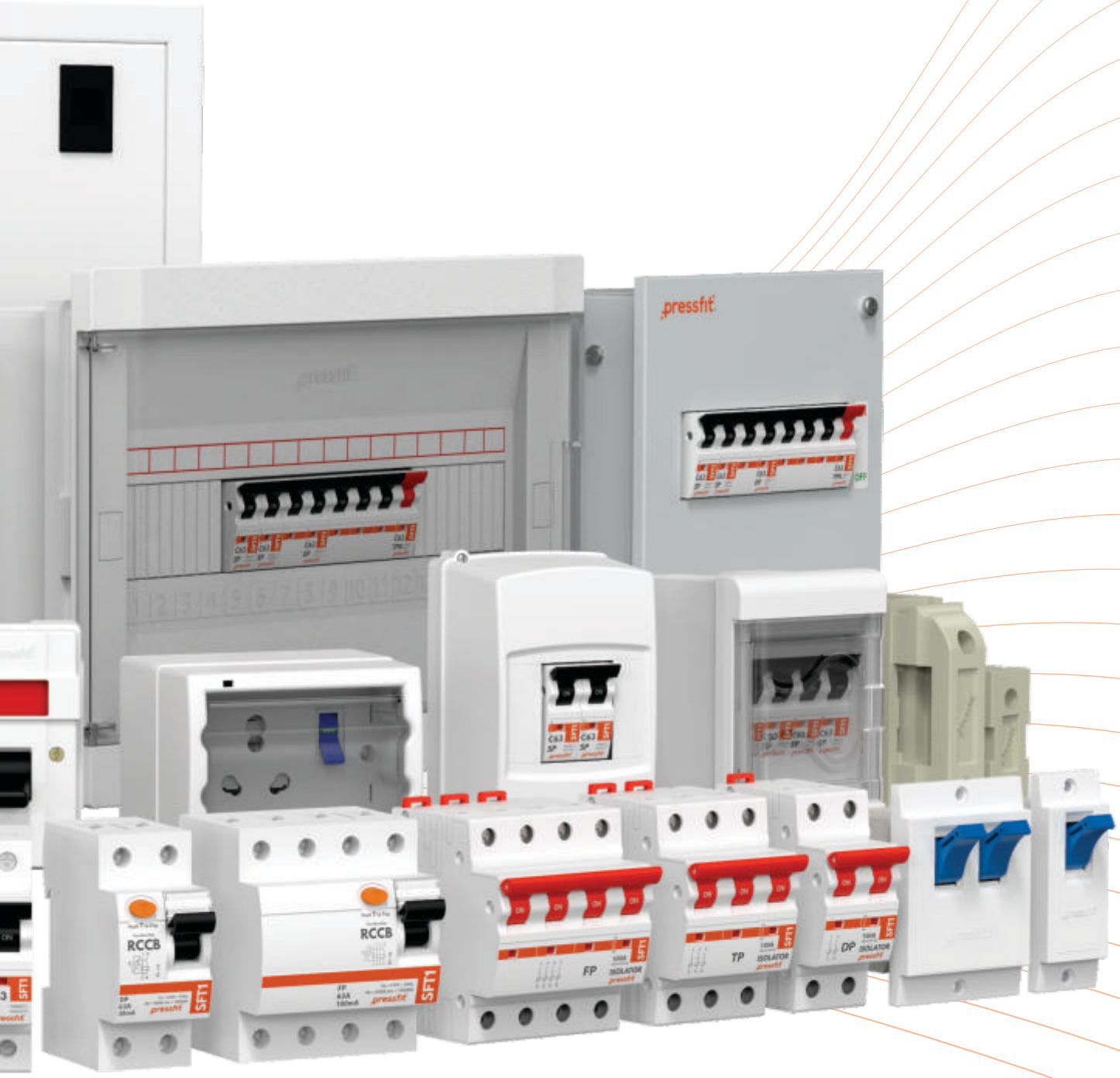


MINIATURE CIRCUIT BREAKERS (MCB) | RESIDUAL CURRENT CIRCUIT BREAKERS (RCCB)
ISOLATORS | MCB CHANGEOVER SWITCH (COS) | MINI MCBs
REVERSE-FORWARD SWITCHES | PORCELAIN KIT-KAT FUSES | PHASE SELECTOR SWITCHES
DISTRIBUTION BOARDS | MCB ENCLOSURES | AC BOXES

OPEN YOUR DOOR TO SAFER POSSIBILITIES!



Company Warranty Policy

The company undertakes to replace or repair the products at its discretion should they become defective solely as a result of faulty material or workmanship. The warranty is valid within 12 months from the date of manufacturing for MCBs, RCCBs, and Isolators. For Distribution Boards and Metal Enclosures, the warranty shall be 2 months against manufacturing defects or transit damages. The warranty on MCBs shall be valid for 24 months from the date of manufacturing if the same is installed in a Pressfit distribution board.

The warranty will be invalidated if the product has not been installed or maintained in accordance to the company's instructions, or if any attempt has been made to rectify, dismantle or alter the product or if the original accessories of the company have not been used. The warranty states the company's entire liability. It does not extend to cover consequential losses or damage or installation costs arising from the defective product.

In the interest of continuous improvement, the company reserves the right to modify or change the product design and specifications of their products in future without any prior notice. In the event of replacements, if any, they will be done with the then prevailing designs.

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