NEWTECH®

QUALITY CONSCIOUS

AN ISO 9001 CERTIFIED COMPANY

Proven Quality

Technical Expertise

General Catalouge

NEWTECH®
QUALITY CONSCIOUS
AN ISO 9001 CERTIFIED COMPANY

The Winner of

NATIONAL AWARD

2010

for
Quality Products

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Prime Concern.....

★ To Provide High Quality Products
And
Efficient Customer Service

★ To Establish

- GOOD BRAND IMAGE
- TECHNOLOGY UPGRADATION
- WIDE NETWORK OF SATISFIED DISTRIBUTERS/DEALERS

NEWTECH is leading manufacturer of LT Switchgear products with "State of the Art" manufacturing unit. The never ending quest for technological development & providing best quality products has resulted in vast increase in SATISFIED customer base. ***NEWTECH*** is exporter of Electrical Switchgear products. Its wide range of Electrical products find application in power generation, distribution, control protection and final consumption.

Company Profile

NEWTECH was established in 1998 for manufacturing of Miniature Circuit Breaker, DB, Isolator, RCCB Main Switch etc. to meet electrical distribution and supply needs of customers in the areas of residential, commercial and Industrial sectors.

NEWTECH has grown strength by strength in the field of design, development, manufacture, testing and supply of MCBs and allied products to its ever growing customers in india and overseas countries.

NEWTECH has maintained steady improvements in operational design, safety, protection, performance and longevity of its existing products as well as continuity in development of new products. ***NEWTECH*** derives its strength from customer confidence and ever growing demand for its products

NEWTECH is an ISO-9001 Certified Company with modern plant and machinery, In-house testing and R&D facilities. A team of professionals at ***NEWTECH*** ensure quality products and after sales service. Adoption of quality Assurance plan right from procurement of raw-materials, components, design, assembly, manufacture, testing, marking packing and perfect logistic system for safe and timely delivery of its products ensures our customers value for money.

NEWTECH has been awarded **National Award** for Quality Products

NEWTECH products are type tested and are approved by independent NABL accredlied Laboratories such as NTH, CPRI and ERDA. Apart from type test in house tests such as Magnetic Calibration, Time Current Characterstic test, Endurance tests etc, are also performed on our products to ensure compliance toapplicable specifications and standards i.e. BIS, IEC and for performace andlongevity. ***NEWTECH*** has acquired certification from CE and got quality Awards

NEWTECH has experience, capacity, capability, resources, qualified technical and commercial manpower to meet any requirement of our customers by executing high value orders and ensuring time delivery and after sales service with minimum complaints and the highest customer satisfaction.

NEWTECH with its ever growing network of distributors in India and abroad satisfied customers has established its name and brand in the field of switchgear equipments ***NEWTECH*** is striving for ever increasing demand for products for different applications.

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MCB

Salient Features :

1. Standard : IS/IEC 60898-1
2. Breaking capacity 10KA for 'B' and 'C' curve.
3. Trip free mechanism, if Knob is kept in 'ON' position.
4. Dual Termination for busbar as well as cable connection.
5. Consistency in tripping characteristics.
6. Special alloy contacts.
7. "Finger Safe" Terminals - IP 20 degree of protection.
8. Thermal as well as magnetic protection.
9. Watt loss of MCB is extremely low.
10. Wide Range: 1P,1P+N, 2P, 3P, 3P+N, 6A. TO 63A., B&C Tripping charactristics.

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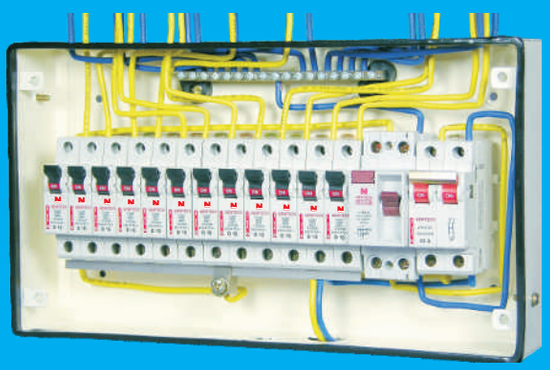
CALIBRATION - 2



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Miniature Circuit Breaker

Construction :

IS/IEC 60898-1
CM/L:8453683

Miniature Circuit Breakers are housed in injection moulded flame retardant, high strength thermo plastic material having high melting point, high dielectric strength and temperature with stand.

Trip free Mechanism i.e. the breaker trips internally even if the operating knob is held in ON position.

Construction Featuer:

- **The Tripping Mechanism is thermal magnetic type :**

  a. Magnetic Protection : When overload values exceed the value specified for different characteristic curves B&C, strong magnetic field is induced which results into instantaneous tripping of MCB.

  b. Thermal Protection : Bimetal which deflects if the current is greater than the rated current and hence tripping the MCB.

- **Finger Protection** : MCB's are finger protected to IP 20 as per IS/IEC 60898-1 the live current carrying parts cannot be touched accidentially.
- **Effective Arc Quenching** : Arc produced of contacts is rapidly pushed magnetically into a 12 plates Arc chamber where it is broken down effectively & cooled.
- **Special Alloy Contact** : The contacts are made out of special alloy which gives low contact resistance resulting in low voltage drop hence very less power consumption and temperature rise. These contacts have very excellent anti weld properties.
- **Dual Termination :** The Incoming terminals are designed for termination of Busbar as well as cable individually or simultaneously. Terminals are suitable for cables upto 25 mm^2.

- **Padlocking Facility:**
  Dolly can be padlocked in
  Off position for personal safety during maintenance
  ON positing for extremely critical loads

- **Current Limiting Design - Class 3:**
  Minimum let through energy fault condition due to ultra fast contact separation and rapid quenching of the arc. This rduces stress on connected loads and cables.

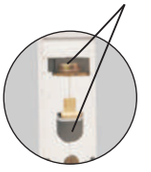
- **Bi-connect Termination Possible:**
  Choice to use Busbar and/or cable in the same terminal, provides reliable termination

- **Din Rail Mounting:**
  Two stage snapping device for simple effortless and firm seating on 35 mm Din Rail, easy & efficient mounting.

- **Air circulation:**
  When two poles are adjacent to each other, these channels form a tunnel resulting in effective air ciculation around individual poles.

- **Position dolly:**
  clear indication of on/off the operational status of device.

Bi-connect Terminal



"NEWTECH" MCB's are among the best available designed with proven, trusted and reliable German Technology to provide enhanced operating safety, installation for Domestic, Commercial and Industrial Applications.

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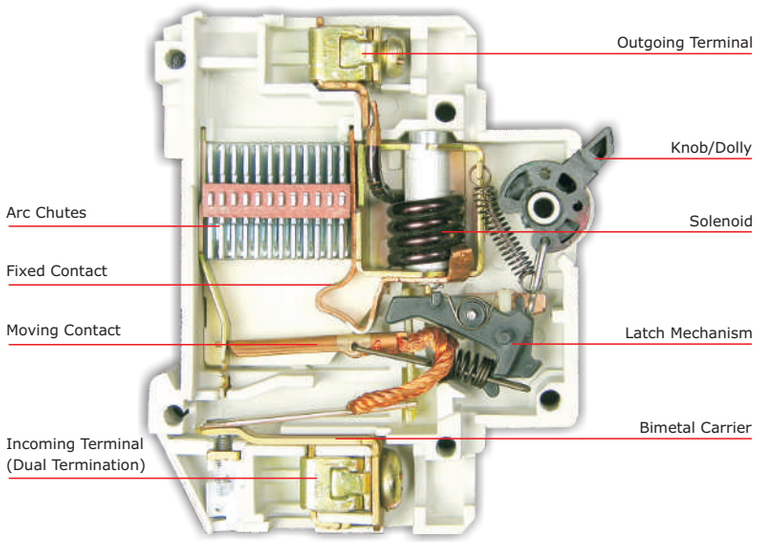
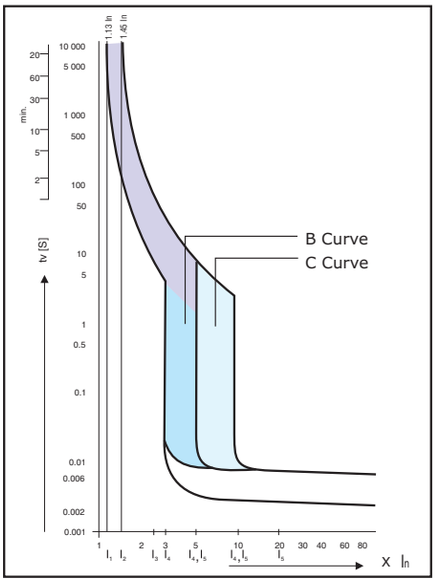
Internal View



Characteristics Curves



	Thermal Tripping			Magnetic Tripping		
As per 60898-1	No tripping Current I_1	Tripping Current I_2	Time Limits t	Hold current I_4	Trip current I_5	Time Limits t
'B' Curve	1.13 x I_n		≥1h	3xI_n		≥0.1s
		1.45 x I_n	<1h		5xI_n	<0.1s
'C' Curve	1.13 x I_n		≥1h	5xI_n		≥0.1s
		1.45 x I_n	<1h		10xI_n	<0.1s

I_3 = 2.55 x I_n

1 s < t < 60s for I_n < 32A

1 s < t < 120s for I_n < 32A

Tripping Characteristics

Based on the Tripping Characteristics MCB's are available in "B" & "C" to suit different types of applications.

"B" Curve :

Short Circuit release (3-5)I_n

For protection of electrical circuits : Having resitive load like Heaters, Oven, Lamps and Lighting load (lighting and distribution circuits)

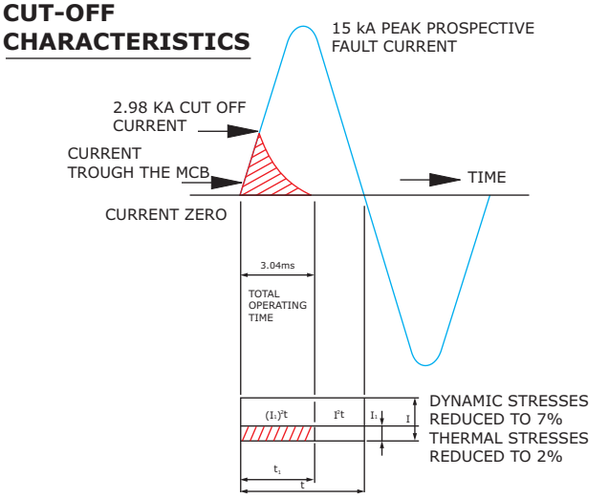
"C" Curve :

Short Circuit release (5-10)I_n

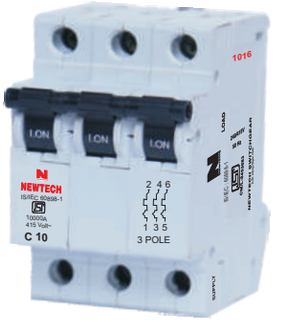
For protection of electrical circuits : Having high current at the time of switching like Motors, Air Conditioners, Transformers & Halogens.

Current Limiting Design

CUT-OFF CHARACTERISTICS



CURRENT LIMITING DESIGN The current limiting design does not allow fault current to reach its peak I^2k & Cut it at a very low value (Id) This keeps let through energy very low which enables MCB to clear short circuit breaking capacity to 10 KA effectively.



Power Loss In Watt Per Pole At Rated Current

Rated Current In (A)	6	10	16	20	25	25	40	63
As per Indian Standard (W) IS.EC 60898	3	3	3.5	4.5	4.5	6	7.5	13
NEWTECH Series (W)	1.2	2.1	2.3	2.5	2.8	4	4.5	7.5

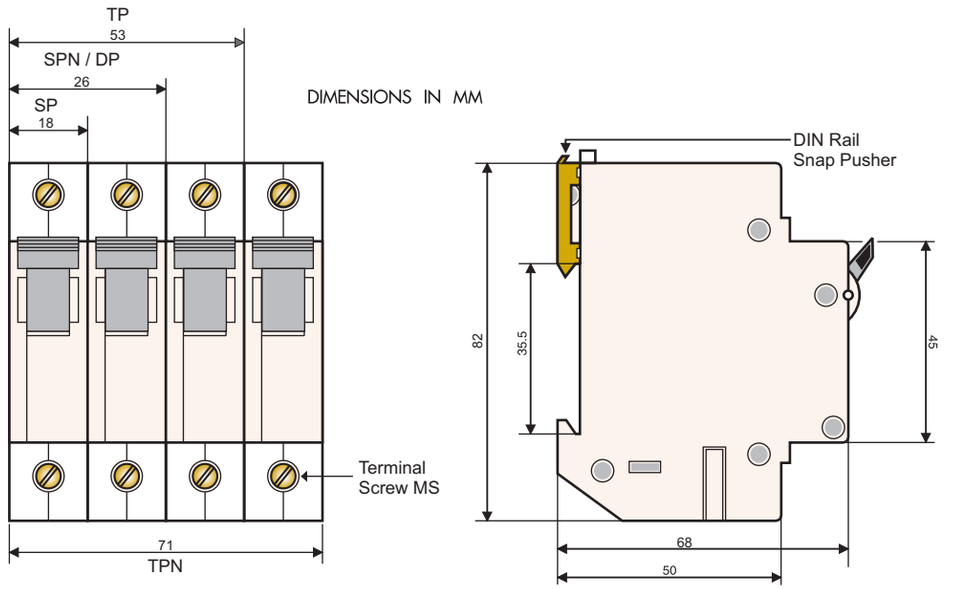
Comparative Table

Rating →	B & C TYPE MCB's			
	6-32 A		**40-63A**	
	As Per IS	NEWTECH	As Per IS	NEWTECH
1.13 In	Should not trip in 1 hour	Does not trip in 1 hour	Should not trip in 1 hour	Does not trip in 1 hour
1.45 In	Should trip in 1 hour	Trips in 30 Min.	Should trip in 1 hour	Trips in 30 Min.
1.9 In	Should trip in 1 hour	Trips in 30 Min.	Should trip in 1 hour	Trips in 30 Min.
2.55 In	Trips in 60 Sec.	Trips in 20 Sec.	Trips in 120 Sec.	Trips in 30 Sec.
3 In	"B" Curve Should not Trips in 0.1 Sec.	"B" Curve does not Trips in 0.1 Sec.	"B" Curve Should not Trips in 0.1 Sec.	"B" Curve does not Trips in 0.1 Sec.
5 In	"B" Curve Should trips in 0.1 Sec. "C" Curve Should not Trips in 0.1 Sec.	"B" Curve trips in 0.04 Sec. "C" Curve does not Trips in 0.1 Sec.	"B" Curve trips in 0.1 Sec. "C" Curve Should not Trips in 0.1 Sec.	"B" Curve trips in 0.04 Sec. "C" Curve does not Trips in 0.1 Sec.
10 In	"C" Curve Should trips in 0.1 Sec.	"C" Curve trips in 0.04 Sec.	"C" Curve Should trips in 0.1 Sec.	"C" Curve trips in 0.04 Sec.

Technical Data

Standard		IS/IEC 60898-1	
Type		B	C
Magnetic Release Setting		(3-5) In	(5-10) In
No. of Poles (Execution)		SP	SP, SP+N, DP TP, TP+N
Rated Current (In)	A	6A to 63A	
Rated Voltage (Ue)		SP SPN DP 240V TP TPN 415V	
Rated Frequency (f)	Hz	50Hz	
Rated Short Circuit Breaking Capacity		10000 A	
Service Short Circuti Breaking Capacity		7500 A	
Energy Limitation		Class 3	
Tripping Mechanism		Thermal & Magnetic Type	
Normal Ambient Temperature		30°C	
Power Loss		Much less than Standard Values	
Rated Impulse Voltage		4KV	
Dielectric Strength		2000V for 1 Minute	
Protection Class		Ip20	
Mounting		On DIN Rail (35mm x 7.5mm)	
Connections		1sq.mm to 25sq. mm for Cu conductors	
Housing		Moulded Frame Retardent Thermoplastic Material	

Diamensions



Household Applications

Appliances	Capacity / watt (Load) (240V~ 1ph)	Current Rating of MCB	Type of MCB
Air Conditioner	1.0 tonnes	10A*	"C" series
	1.5 tonnes	16A*	"C" series
	2.0 tonnes	20A*	"C" series
Refrigerator	165 litres	1.5A*	"C" series
	350 litres	3A*	"C" series
Oven cum Griller	4500W	25A	"B" series
	1750W	10A	"B" series
Oven only Hot Plate only Room Heater	750W	6A	"B" series
	2000W	10A	"B" series
	1000W	6A	"B" series
	2000W	10A	"B" series
Washing Machine	300W	2A	"C" series
Washing Machine (with heater)	1300W	8A	"C" series
Water Heater			
(storage/instant)	1000W	6A	"B" series
	2000W	10A	"B" series
	3000W	16A	"B" series
	6000W	32A	"B" series
Electric iron	750W	6A	"B" series
	1250W	8A	"B" series
Auto Toaster			
(2 slices)	1200W	8A	"B" series
Electric Kettle	1500W	10A	"B" series

* Please check before installation.
* Appliances capacity may vary make to make

Selection of MCB for Motor Protection

S. No.	kW	HP	1 Phase 230V DOL Starting		3 Phase 400V DOL Starting		3 Phase 400V Assisted Starting Star Delta		
			Full Load Current	MCB Selection	Full Load Current	MCB Selection	Full Load Current	MCB Selection	
1	0.18	0.24	2.8	10	0.9	2	—	—	—
2	0.25	0.34	3.2	10	1.2	2	—	—	—
3	0.37	0.50	3.5	10	1.2	2	—	—	—
4	0.55	0.74	4.8	16	1.8	3	—	—	—
5	0.75	1.01	6.2	20	2.0	3	—	—	—
6	1.1	1.47	8.7	25	2.6	6	—	—	—
7	1.5	2.01	11.8	32	3.5	10	—	—	—
8	2.2	2.95	17.5	50	4.4	10	—	—	—
9	3	4.02	20.0	63	6.3	16	6.3	16	10
10	3.75	5.03	24.0	80	8.2	20	8.2	20	10
11	5.5	7.37	26.0	80	11.2	25	11.2	32	16
12	7.5	10.05	47.0	125	14.4	40	14.4	40	25
13	10	13.40	—	—	21.0	50	21.0	50	32
14	15	20.11	—	—	27.0	100	27.0	63	40
15	18.5	24.80	—	—	32.0	125	32.0	—	50
16	22	29.49	—	—	38.0	125	38.0	—	63
17	30	40.21	—	—	51.0	125	51.0	—	63

Rating of MCBs for specified no. of fittings (“B” Series MCBs)

Lamp (Watt)	Number of Lamps	Rating (A)
20W	8	1
	12	1.5
40W	2	0.5
	10	2
	12	2.5
60W	1	0.5
	4	1.5
	8	3
	12	4
80W	1	0.5
	2	1
	5	2
	8	4
	12	5
100W	1	1
	2	1.5
	4	2.5

“B” series MCB is used for all Lighting Applications

Calculation Formulae :

Incomer Current Rating, For Single Phase : $\frac{\text{Total Load in Watts}}{220V}$

Incomer Current Rating, For Three Phase : $\frac{\text{Total Load in Watts}}{\sqrt{3}X240V}$

“C” series MCB is used for all Motor Applications

Note : One lighting circuit can have upto 800W or upto 10 lighting points

One power circuit can have upto 2000W or 1 power points

Power Plus

Series

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Mini Tiny MCB

Mini Tiny

Mini Tiny MCB which has short circuit breaking capacity 3000 Amp.These are compact in size for these can be housed in any type of switchboard and can also be used with modular plate switches.

Salient Features

- Breaking Capacity 3000 Amp. for 'B' and 'C' curve.
- Consistency in tripping characteristics.
- Finger safe terminals IP-20 degree of protection.
- Thermal as bell as magnetic release.
- Easy to install with modular plate switches also.
- Compact in size.

Technical Information

Standard Conformity	IS/IEC 60898-1	
Types/Series	B	C
Rated Current (Iη)	6-32 A	
Rated Voltage (AC) (Ue)	240 V	
Rated Frequency (F)	50 Hz	
Nos. of Poles	*SP *DP	
Rate Short Circuit Breaking Capacity A	3000 A	
Magnetic Release Setting	(3-5) Iη	(5-10)Iη
Rated Insulation Voltage (Ui) V	500 V	
Electrical / Endurance (Operations)	4000	
Mechanical Endurance	20,000	
Terminal Capacity (max) Sq. mm	16	
Vibration g	5	
Shock	40 mm free fall	
Protection Class	IP 20	
Installation Position	Optional	
Mounting	Fitting on Front Plate	
Housing	Moulded Flame Retardent Thermoplastic Material	
Current Ratings	6,10,16,20,25,32	

*SP Single Pole *DP Double Pole

NEWTECH Mini Tiny MCB used for A/C, Low Horse Power Motors & Light resistive load

ISOLATOR

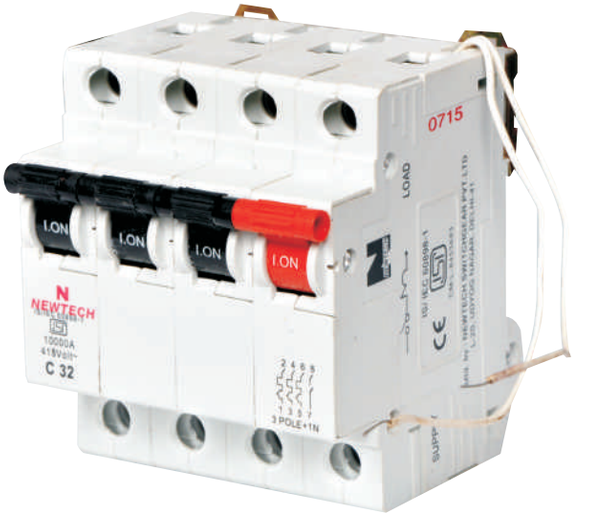
Technical Information

Standard Conformity	IS/IEC 60947-3
Rated Current (Iɳ)	40-63-100
Rated Voltage (AC) (Ue)	240 / 415 V
Rated Frequency (F)	50 Hz
Nos. of Poles	1P, 2P, 3P, 4P
Rated Insulation Voltage (Ui) V	660
Rated Impulse Voltage (Uimp) kV	6
Electrical / Mechanical Endurance	
(No. of operations)	10,000
Ambient Temperature (^{0}C)	+5 to +55
Terminal Capacity (max) Sq. mm	25
Vibration g	5
Shock	40 mm free fall
Protection Class	IP 20
Installation Position	Vertical / Horizontal
Mounting	on Din Rail (35 mmx 7.5 mm)
Housing	Moulded, Flame Retardent Thermoplastic Material

Salient Features

- Reference IS/IEC 60947-3
- 240 / 415 V, 50 Hz
- Latest Technology
- Din Rail Mounting
- Quick & Easy to Install
- Special Alloy Contact
- Sturdy Terminals

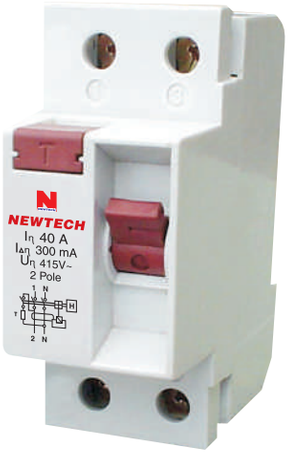
Shunt Trip

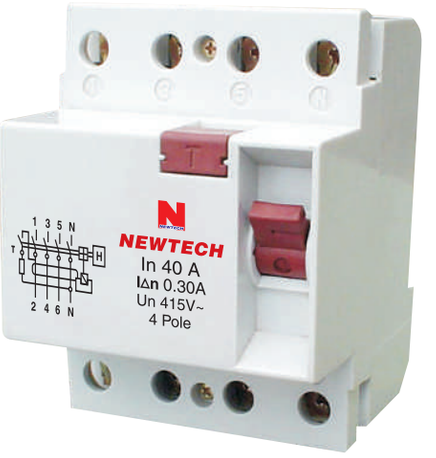


Shunt Trip

Standard Conformity		IS/IEC 60947-3
Coil Consumption	VA	6
Rated Voltage AC	V	240
Frequency	Hz	50
Operating Voltage range		70% - 110% of rated voltage
Electrical Endurance (Nos. of ops)		10000
Terminal Capacity (max)	mm^2	25
Protection Class		IP-20 IS : 2147
Mounting		Right side of MCB (Factory assembled)
Rated Current		40 A

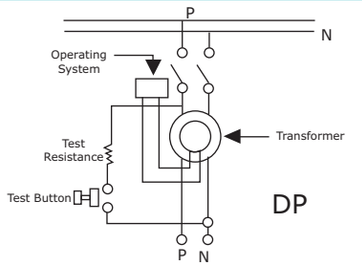
The Shunt Trip Coil is short time rated and it trips the breaker instantaneously.

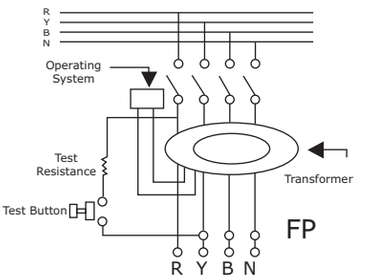




Operating Principle

The RCCB works on the principle of current balance. The Incoming conductors (Phase & neutral) are passed through the very sensitive torroid transformers from the primary winding and secondary electromagnetic relay, which operates the trip mechanism. Normally the contacts are held closed by a spring and open when this is released. If leakage occurs from either of phases or neutral side of circuit in this condition currents are unbalanced by an amount of leakage current and if this reached the rated tripping current of RCCB/ELCB then it trips and save precious human life.





Electrocution is a passage of current through human body, which is dangerous. The flow of current through human body effect vital functions.

1. Breathing
2. Heart beat

A correctly chosen RCCB can detect small currents flowing to earth and reduces the risk fo electrocution. Effect of electric current through human body has been well researched and following chart summarizes the results:

Effect of electric current through human body has been well researched and following chart summarizes the results:

300 - 500 mA		Immediate cardiac arrest resulting in death
100 - 300 mA		
70 - 100 mA		Cardiac fibrillation; the heart begins to vibrate and no longer beats at a steady rate. This situation is dangerous since it is irreversible
20 - 30 mA		Muscle contraction can cause respiratory paralysis
10 mA		Muscle contraction: the person remarks “stuck” to the conductor
1 - 10 mA		Prickling sensations

Test Button

Test Button is for testing the trip mechanism of RCCB. The test should be made periodically to ensure satisfactory working of components.

Technical Specification : (Ref. IS : 12640 (1) 2000

Rating Voltage	: 2 Pole / 240 V~ 4 Pole / 415 V~
Current Rating	: 25A, 32A, 40A, 63A
Sensitivities	: 30 mA, 100 mA, 300 mA
Tripping Time	: Less than 30 msec.
Electrical Endurance	: > 10000 Operation (Electrical)
	: > 20000 Operation (Mechanical)
Ambient Temp.	: -5 to 50^{0}C

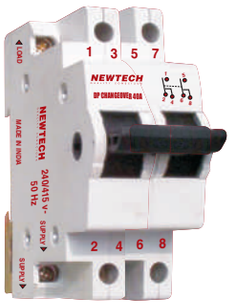
Salient Features

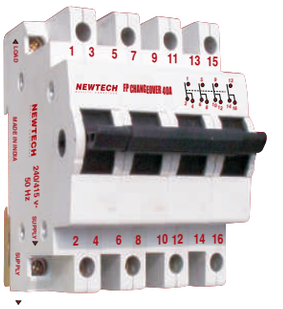
- Simple Operating Mechanism.
- Mounting on 35 mm DIN RAIL.
- Special alloy contacts.
- Compact Size.
- High Sensitive fast acting, trip free mechanism.
- Test Button for regular inspection.
- Very Low Watts Loss.
- Dual Termination for Bus Bar as well as cable connection.

RCCB prevents when :

- Poor Insulated equipments.
- Loose connection, faulty wires.
- Incorrect use of an electrical devices cause currents flow through the wrong path.
- In case of fire.

Miniature Changeover Switch





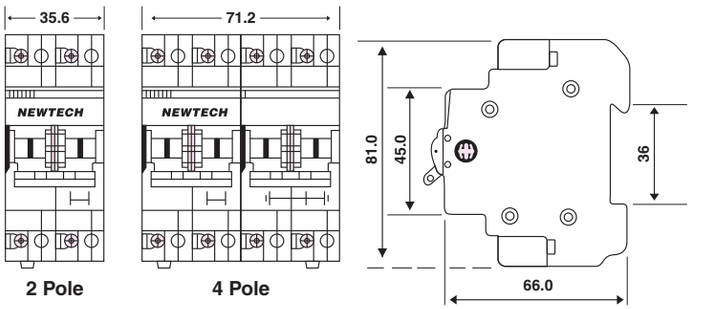
Salient Features

- Compact in size.
- Double break contacts
- Special silver alloy contact tips
- Shrouded terminals for safety.
- Three stable positions ON-OFF-ON
- Housing is made of non Hygroscopic fire retardent thermoplastic.
- DIN Rail mounting with snap fixing.
- Can be mounted with MCB, ELCB, Isolator in Distribution Boards.

Technical Information

Standard Conformity	: IS/IEC 60947-3
Rated Current	: 20 A, 25A, 32A, 40A
No. of Pole	: 2 Pole, 4 Pole
Rated Voltage	: 240 AC/415 V AC
Rated Frequency	: 50 Hz
Rated insulation voltage	: 660 V
Dielectric Strength	: 2.5 KV
Rated impulse withstand Voltage	: 6 KV
Utilization Category	: AC 21 A
Ambient Temp.	: -5 to $+55^{0}$C
Mechanical life	: 10000 operations
Electrical life	: 10000 operations
Mounting	: Standard DIN Rail - 35 mm
Mounting Position	: Vertical/Horizontal
Terminal Capacity (Cu)	: 10 mm^2

Dimension (in mm)



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DB's

Distribution Boards, an enclosure which distribute the current from a single sources of supply to various circuit, Sub-Curcuit. Its a unique system of distribution of supply, having copper busbar, neutral link, earth links.

A wide range of Compact, elegant & economical Distribution Boards with unique features aesthetically designed and engineered to provide user safety, convenience to present life style Trends. Distribution Boards are suitable for all type of MCB's.

Distribution Board

Features :

- Aesthetically elegant comprising of individual decor requirement i.e. modern housing.
- Optional in income MCB / MCB + RCCB / Isolator + RCCB.
- Fabricated from the best CRCA Steel Sheets for goods strength and long lasting finish.
- Duly Fitted with busbar, DIN Channel and neutral link with the provision of sub-circuits.
- Painted with latest powder coating technology which ensure the superior quality finish and also provide protection against corrosive atmosphere.
- Provision of detachable gland plates at the top and bottom.
- Key type and Round type foundation holes. for mounting the DB's.
- Special brass incoming terminal Busbar & Neutral links are used for perfect distribution of current.
- Suitable for surface of flush mounting.

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Distribution Board

Distribution Boards Range

HORIZONTAL TYPE

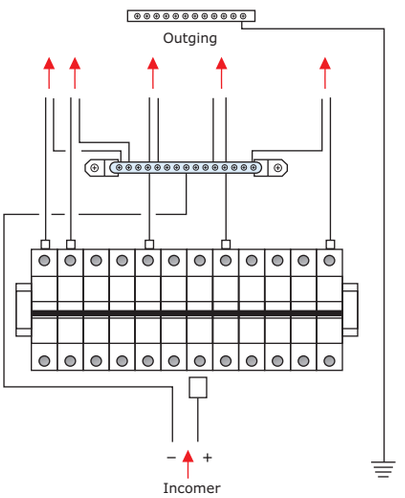
SPN Single Door SPN Double Door SPN Ultra Series SPN Super Ultra	Outgoing Ways 4,6,8,10,12,16
TPN Single Door TPN Double Door TPN Ultra Series TPN Super Ultra	4,6,8,12
Steel Sheet Enclosures without Neutral Link and Bus bar	4,6,8
Enclosure with Plug & Socket (A/C Box)	SPN 20 Amps. TPN 20,30 AMPS.

PLASTIC ENCLOUSER

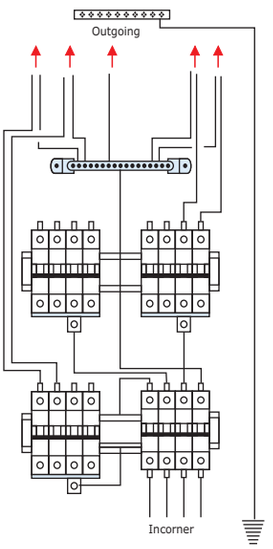
Regular : Modular Super Modular ABS Ultra AC Box Modular with MCB	1/2, 3/4 Pole 1/2, 3/4, 5/6 Pole 1/2, 3/4, Pole SPN/TPN 6A. to 25A.

VERTICAL TYPE

Single Door and Double Door	TPN, 4,6,8,12 Ways (Available on request)
2 Tier & 3 Tier Distribution Boards	Available on request



DB's (SPN Wiring Diagram)



DB's (TPN Wiring Diagram)

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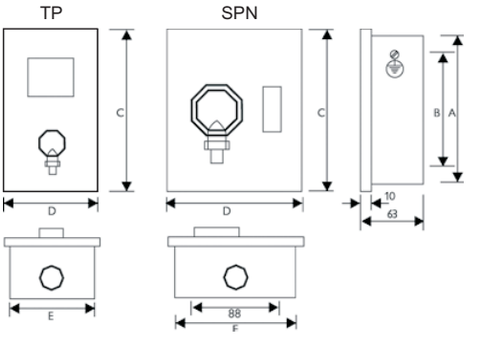
Sheet Enclosure with Plug & Socket (A/C Boxes)

Suitable for the Protection of Appliances

DIMENSIONS (in mm)

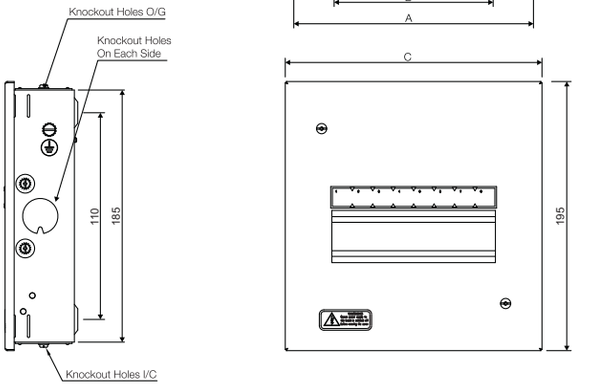
No. of Ways	Dimensions					Sheet Thickness (mm)
	A	B	C	D	E	
20A SP	155	110	170	140	120	1.0
20A TP	280	210	290	110	100	1.0
30A TP	280	210	290	110	100	1.0



SPN Single Door

No,. of Ways	Dimensions			Sheet Thickness (m.m)
	A	B	C	
4	135	80	145	1.0
6	160	105	170	1.0
8	200	140	210	1.0
10	235	170	245	1.0
12	270	210	280	1.0
16	340	280	350	1.0

DIMENSIONS (in mm)



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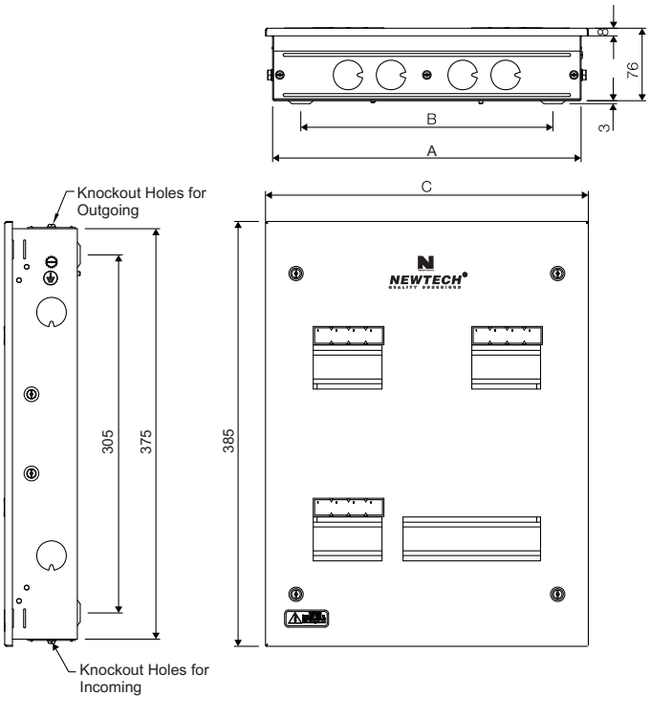
TPN Single Door

No,. of Ways	Dimensions			Sheet Thickness (m.m)
	A	B	C	
4	260	190	270	1.0
6	330	265	340	1.0
8	400	330	410	1.0
12	545	475	555	1.0

DIMENSIONS (in mm)



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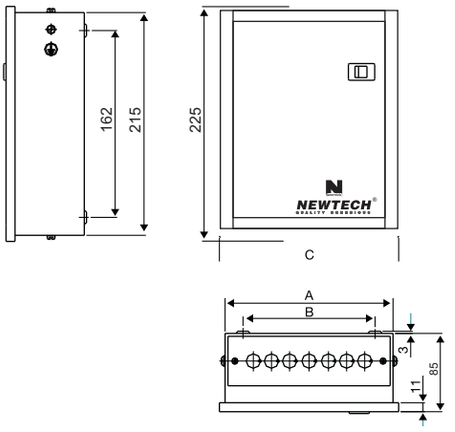
Distribution Board

SPN Ultra Series

No,. of Ways	Dimensions			Sheet Thickness (m.m)
	A	B	C	
4	145	90	155	1.0
6	175	125	185	1.0
8	215	162	225	1.0
10	250	195	260	1.0
12	285	235	295	1.0
16	355	300	365	1.0

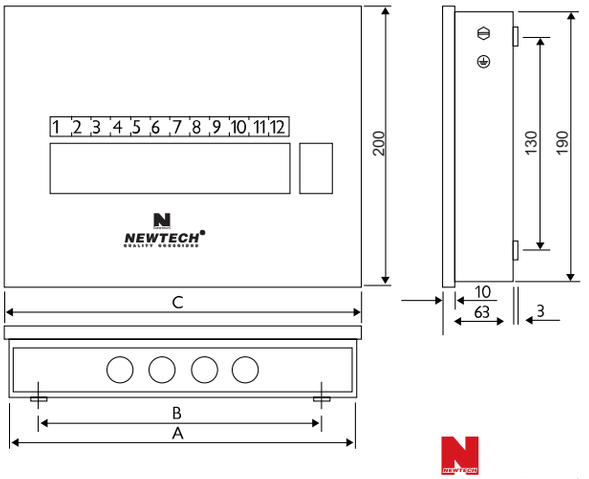
DIMENSIONS (in mm)



Single Door Consumer DB - IP - 40 Protection

No,. of Ways	Dimensions			Sheet Thickness (m.m)
	A	B	C	
2 + 4	175	115	185	1.0
2 + 6	215	150	225	1.0
2 + 8	250	185	260	1.0
2 + 10	285	160	295	1.0
2 + 12	340	280	350	1.0

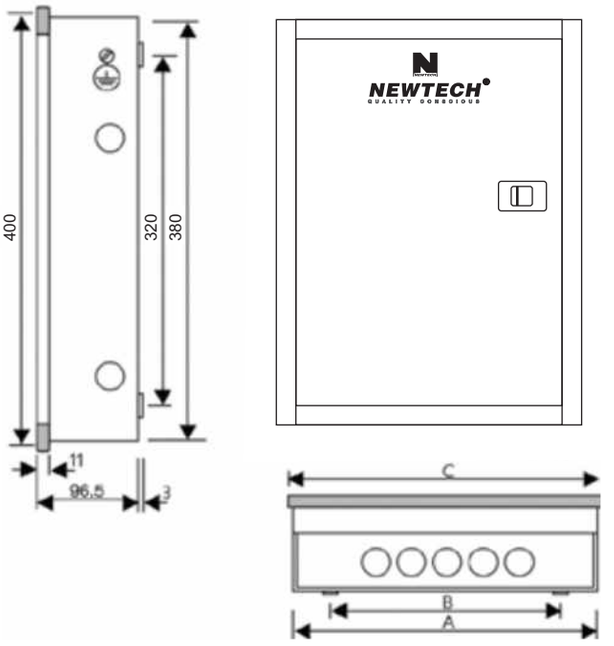
DIMENSIONS (in mm)



TPN Ultra Series

No,. of Ways	Dimensions			Sheet Thickness (m.m)
	A	B	C	
4	260	200	280	1.0
6	330	280	350	1.0
8	400	340	420	1.0
12	545	475	565	1.0

DIMENSIONS (in mm)



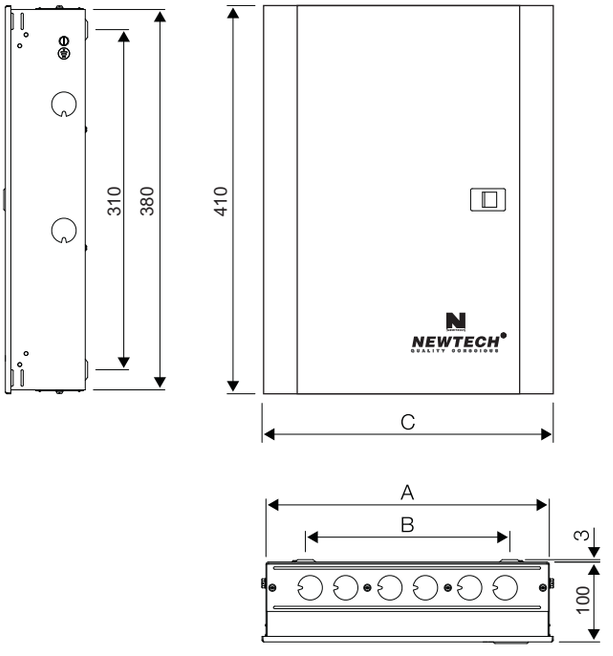
Distribution Board

NEWTECH Super Ultra

No,. of Ways	Capacity of 17.8mm module Incomer + Outgoing
4	4 + 12
6	4 + 18
8	4 + 24

No,. of Ways	Dimensions			Sheet Thickness (m.m)
	A	B	C	
4	260	190	315	1.0
6	330	260	385	1.0
8	400	330	455	1.0

DIMENSIONS (in mm)



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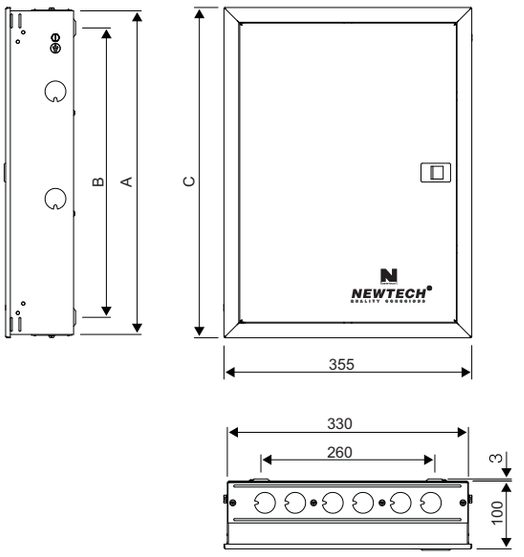
Distribution Board

SPN Double Door

No,. of Ways	Capacity of 17.8mm module Incomer + Outgoing
4	8 + 12
6	8 + 18
8	8 + 24
12	8 + 36

No,. of Ways	Dimensions			Sheet Thickness (m.m)
	A	B	C	
4	375	300	400	1.0
6	375	300	400	1.0
8	525	460	550	1.0
12				1.0

DIMENSIONS (in mm)



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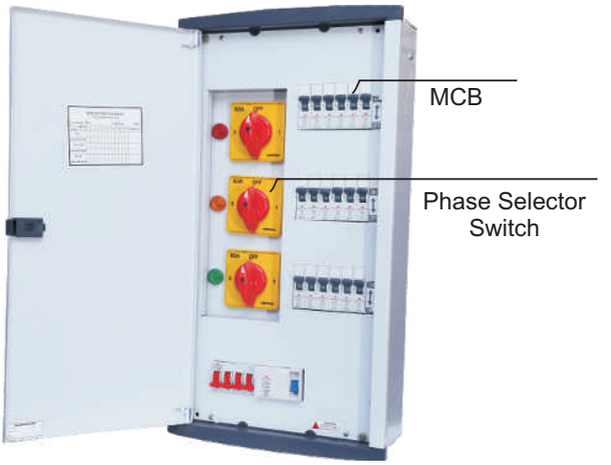
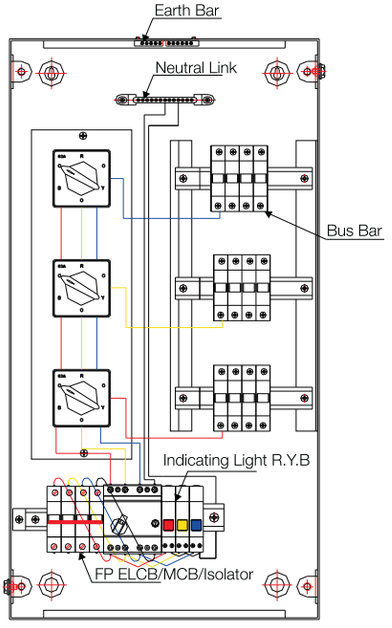
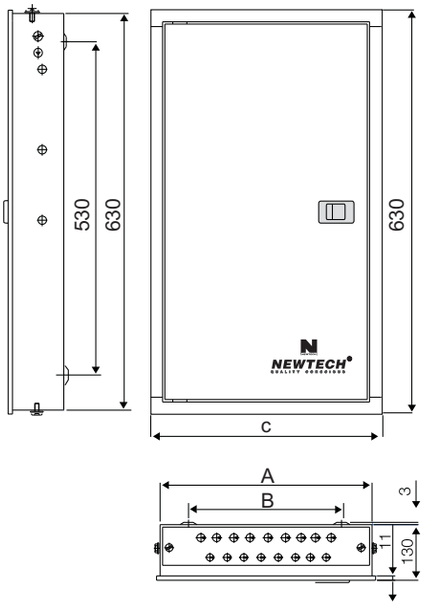
Distribution Board

PHASE SELECTOR VERTICAL DB (DOUBLE DOOR)



No,. of Ways	Capacity of 17.8 mm module Incomer + Outgoing	Rating	Dimensions			Sheet Thikness
			A	B	C	
4	8+12	32A. to 63A.	330	260	350	1.2
6	8+16	32A. to 63A.	330	260	350	1.2
8	8+24	32A. to 63A.	370	290	400	1.2





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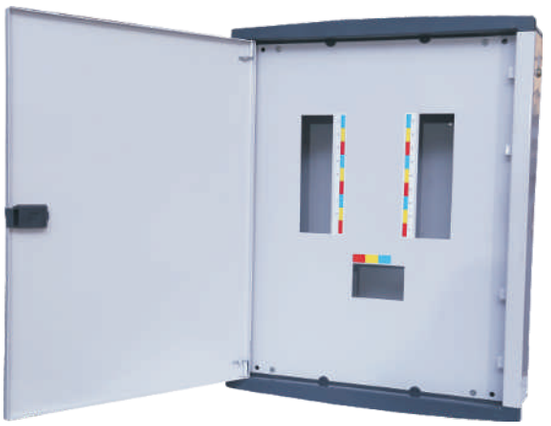
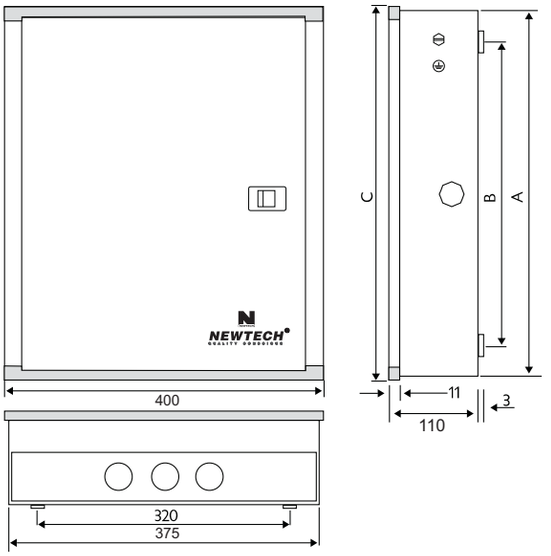
Distribution Board

VERTICAL
A. Single Door
B. Double Door



No,. of Ways	Dimensions			Sheet Thickness (m.m)
	A	B	C	
4	430	350	460	1.2
6	480	400	510	1.2
8	530	450	560	1.2
12	640	570	670	1.2

DIMENSIONS (in mm)



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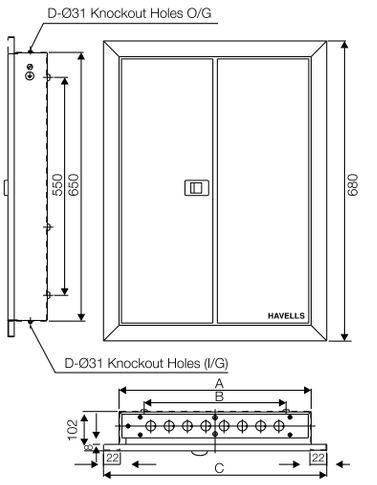
Distribution Board

SEVEN COMPARTMENT DB

No,. of Ways	Rating
4	8+(12+12)
6	8+(12+18)
8	8+(12+24)
12	8+(12 +36)

DOUBLE DOOR DIMENSIONS - (in mm)

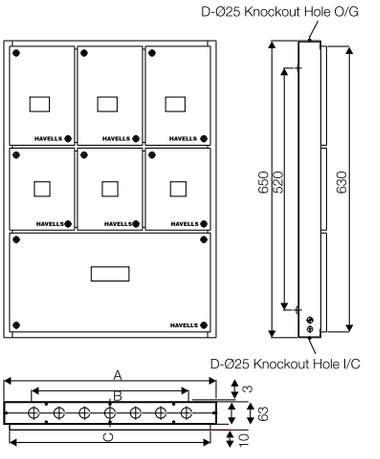
No,. of Ways	Dimensions			Sheet Thickness (m.m)
	A	B	C	
4W	460	320	500	1.2
6W	560	428	600	1.2
8W	670	536	710	1.6
12W	890	752	930	1.6



DIMENSIONS (in mm)

SINGLE DOOR DIMENSIONS (in mm)

No,. of Ways	Dimensions			Sheet Thickness (m.m)
	A	B	C	
4W	450	320	430	1.6
6W	560	425	540	1.6
8W	670	535	650	1.6
12W	880	750	865	1.6



DIMENSIONS (in mm)

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Modular AC Box

MCB protected socket is a new concept to provide safety for appliances which are plugged in to power sockets. MCB is provided for over current & short circuit protection. It is designed for quick and easy installation and safety purpose.

Electrical Specification

Rated Voltage	:	240V
Rated Current	:	16A, 20A & 25A
Nature of Supply	:	AC only
Terminal Capacity	:	6 mm^2

Metal Clad Plug & Socket

Metal Clad Plug & Socket

Range :
Single Phase
Rating :
10 Amp. & 20 Amp. 3 Pin (2 Pin + E) Configuration.
Range :
Three Phase
Rating :
20 Amp. & 30 Amp. 4 Pin (3 Pin + E) Configuration.
Specifications :
Confirms to IEC : 60309 - 1 & 3
Features :

- Finger protection from accidental contact with plug pins by provision of an over hang around the pins of the plug.
- Provision of protective cap/cover for Socket when not in use.
- Contact tubes of socket deeply recessed to prevent finger contact.
- Provision of scraping earth. The earth connection makes first & breaks last.
- Visible earth terminal for ease of checking earth connection.
- Rubber cable guard in the plug for protection of incoming flexible cable.

Fuse Units

Rewireable Fuse Unit (Kit Kat)

Range :
6 to 32 Amp. 240 V
6 to 63 Amp. 415 V

Specifications :
Confirms to IS : 2086

Features :

- Designed for domestic & industrial installations.
- Fully Vitrified hard paste glazed porcelain.
- In HRC type fuse units aperture provided to give visual fuse - blown indication.

Main Switches

Range	: 16 A to 200 A
Execution	: SPN, DP, TP, TPN
Rated Voltage	: 240 V/415 V Ac.
Rated Insulation Voltage	: 660 V
Reference	: IS : 13947 - 1&3

Salient Features :

- Side Handle for quick make and break operating mechanism.
- Suitable for surface mounting.
- Door interlocking provided.
- Sheet Steel Enclosure duly powder coated for longer life.
- Tin Plated Contacts.
- Knockout and detachable gland plates are provided.
- Live parts are fully shrouded.

OFF Load Change Over Switch

Range	: 16 A to 200 A
Execution	: DP & FP
Rated Voltage	: 240 V/415 V ~
Rated Insulation Voltage	: 660 V
Reference	: IS : 13947 - 3

Salient Features :

- Side Handle operations.
- Enclosure made from CRCA Sheet Steel duly powder coated for longer life.
- Suitable Terminals.
- Knockout provided for entry of cables.

Busbar Chamber

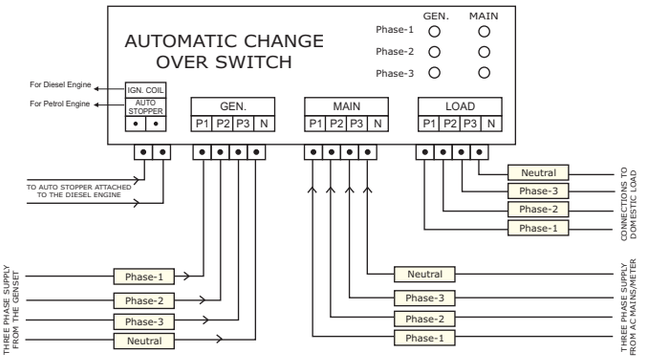
Range	: 32 A to 400 A
Execution	: DP & FP
Rated Voltage	: 240 V/415 V ~

Salient Features :

- Enclosure made from CRCA Sheet Steel. duly powder coated for longer life.
- Electrolitic copper busbar are used.
- Multi Terminals provision for each phase and neutral.
- Knockout provided for entry of cables.
- Suitable for Flush Mounting.

Automatic Changeover Switches

Wiring Layout



Instructions : Please Connect the Neutral to the Blue Colour Wire in the Connector.
Autostopper Function will work only when Phase-1, is available on AC Mains it wil not work when Phase-I, has gone off and Phase-2 & Phase-3 from AC Mains are available.

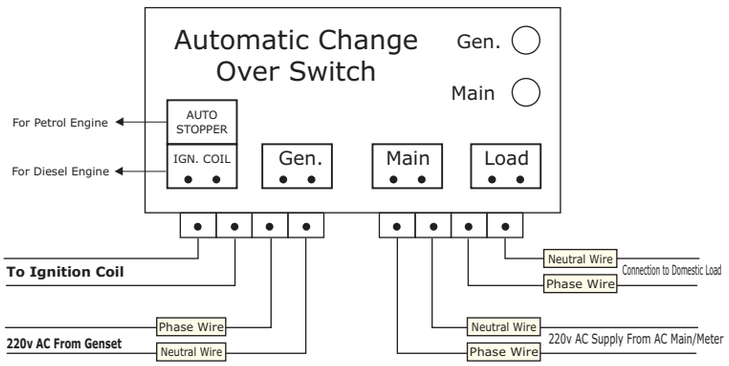
Technical Data

Rating : 32 to 63 Amp.
Execution : SPN & TP
Rated Voltage : 240/415 V ~

Salient Features

- Special Silver Alloy Contacts for longer life.
- Best Quality relay used.
- Enclosure made of CRCA sheet and duly powder coated for long last finish.
- Suitable for Domestics Shops & Industrial Installation.
- Available for Petrol Gen. Set & Diesel Gen. Set

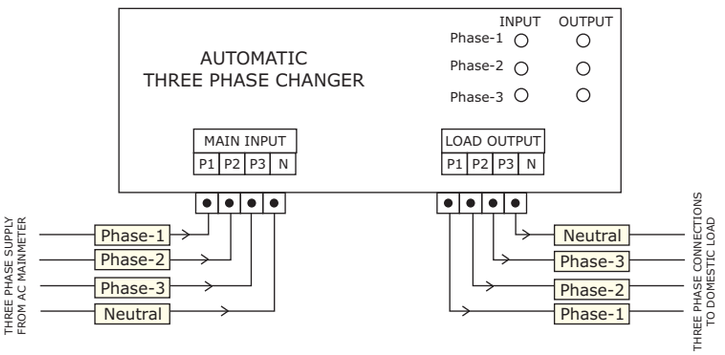
Wiring Layout of Automatic Changeover Switch for Single Phase Petrol Gen.



Instructions : Please Connect the Neutral to the Blue Colour Wire in the Connector.
Air Conditioner Load or any other High Wattage Current Should not pass through the Change Over Switch

Automatic Phase Changer

WIRING LAYOUT FOR AUTOMATIC THREE PHASE CHANGER



Instructions : Please Connect the Neutral to the Blue Colour Wire in the Connector.
When three is three Phase Supply in output. Then three Phase Available in Out put.
but when any ONE or TWO Phases goes our from the Input Supply this instrument Provides 220 V AC Supply in each output phase but you cannot run a three phase appliances when three are only ONE or TWO phase available in input Supply.

Technical Data

Rating : 32 to 40 Amp.
Execution : TP
Rated Voltage : 415 V ~

Salient Features

- Special Silver Alloy Contacts for longer life.
- Best Quality relay used.
- Enclosure made of CRCA sheet and duly powder coated for long last finish.
- Suitable for multistorey buildings, Houses.

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