MITSUBISHI ELECTRIC
Changes for the Better

Take a Risk-Free Leap using our
FINAL DISTRIBUTION PRODUCTS

Empowering Industries

INNOVATION THAT LEADS THE CHANGE

Mitsubishi Electric's foray in the Low Voltage Switchgears segment in India marked the beginning of a series of innovations that are now gathering tremendous industry accolades..
The commendable line up of products include Miniature Circuit Breakers which are considered to be most reliable for their safety features, range of Residual Current Circuit Breakers that boast unmatched protection quality coupled with Distribution Boards that are known for their all inclusive aesthetics, customised for residential, commercial & industrial segments.

Mitsubishi Electric group is taking steps to strengthen its initiatives in growing market segments. Right from expanding business in India and international markets, MEI is bolstering the social infrastructure system and is developing the business by combining a wide array of technologies with expertise gained in the varied product range and other fields.

Common to all of our products and endeavours is MEQ, which stands for 'Mitsubishi Electric Quality.' MEQ promises the best experience in our products, services, partnerships and people. It lies at the very core of our business.Guided by our corporate statement, 'Changes for the Better,' we take our responsibility as a corporate citizen very seriously. Our products are developed with superior energy efficiency and the environment in mind.

Since our operations began in India in the mid-1950s, Mitsubishi Electric has grown to become one of the most highly regarded companies in this country.

It is our endeavour to present you with the most delightful innovations in this catalogue, let us welcome you to learn more about the impact each product delivers, their various applications and the maximum advantage one can build on.

SAFETY

FIRST

MINIATURE CIRCUIT BREAKER

PRODUCT LINE-UP

Model type		No of poles (P)	Rating	Instantaneous tripping	Voltage (V)	Short-Circuit capacity (kA)	Compliance standard
MCB	BHW-T10	1, 1+N, 2, 3, 3+N, 4	6 to 63A	TYPE B	240/415AC	10	IEC 60898-1
		1, 1+N, 2, 3, 3+N, 4	0.5 to 63A	TYPE C, D	240/415AC		IEC 60898-1
RCCB	BVW-T	2(1+N), 4(3+N)	16 to 63A	–	240/415AC	–	IEC 61008-1
Isolating Switch	KBW-T	1, 2, 3, 4	25, 40, 63A	–	240/415AC	–	IEC 60947-3
		2, 3, 4	80, 100, 125A	–	240/415AC	–	IEC 60947-3

Technical Specifications

Ambient temperature range	-10 to +40°C
Frequency	50/60Hz

CONSTRUCTION FEATURES

- State of the art design
  - Elegant appearance, cover and handle in arc shape make comfortable operation
- Knob padlock feature
  - MCB knob can be locked either at “ON” position or at “OFF” position to prevent unwanted operation of the product
- Mounting / Removal
  - By means of a unique snap mechanism products can be mounted on DIN rail strip or removed even from a row of devices by lifting the clip without dismantling the whole row
- Dual position clip
  - Dual position plastic clip helps in easy mounting and renewal of MCBs on DIN channel
- Interchangeable terminal connection
  - The input and output can be interchanged
- Bi-connect terminals
  - Both the sides of terminals are bi-connect type, giving ultimate flexibility.
- High terminal capacity
  - Deep serrated terminals able to accomodate 35 sq mm cable
- Tightening torque
  - Combination head captive screw
  - M5 screw - 3 N.m
  - M6 screw - 3.5 N.m
- IP 2X protection
  - Terminals are finger touch proof to prevent electric shock by accidental touch

FUNCTION & FEATURES

Product Standard
Confirming to IS/IEC/EN 60898-1

Certification Marking
KEMA, CB (DERKA, Netharland), CE, ISI

Trip Free Mechanism
During fault MCB trips even if hadle is held in ON position

Wide Range
0.5A to 63A
1P, 1P+N, 2P, 3P, 3P+N, 4P
B, C & D tripping characteristics

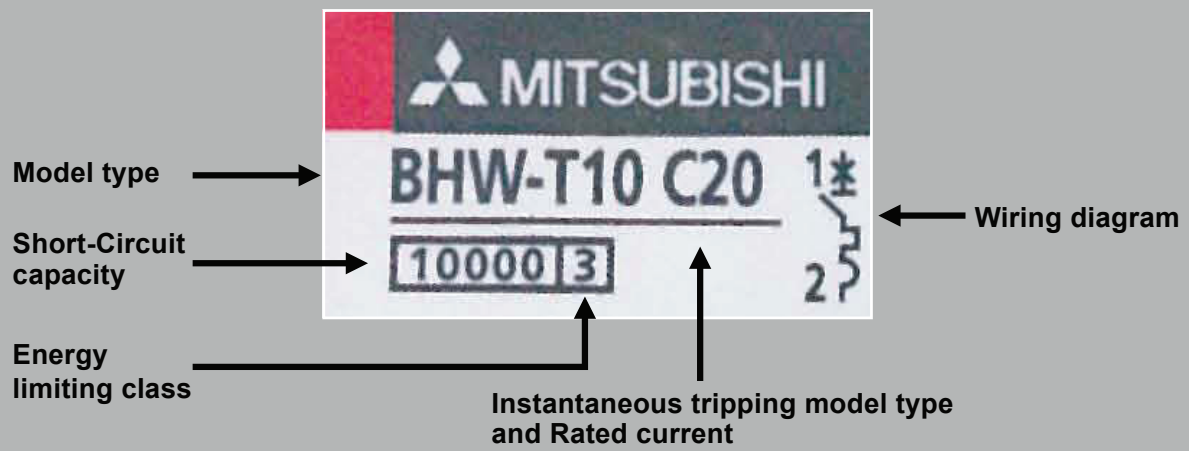
Low watt loss
Power loss values are much lesser than IS/IEC specified values; making it one of the most energy efficient MCB

Energy limiting class: 3
High current limiting performance under fault conditions achived due to ultra fast contact opening and rapid quenching of arc

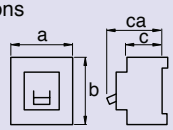
Isolation
MCB guarantees complete electric isolation of the downstream circuit when switched off ; thus enhancing safety for users

Circuit Identification
Legend plates for circuit identifications and hence enhanced safety

Explanation of Marking

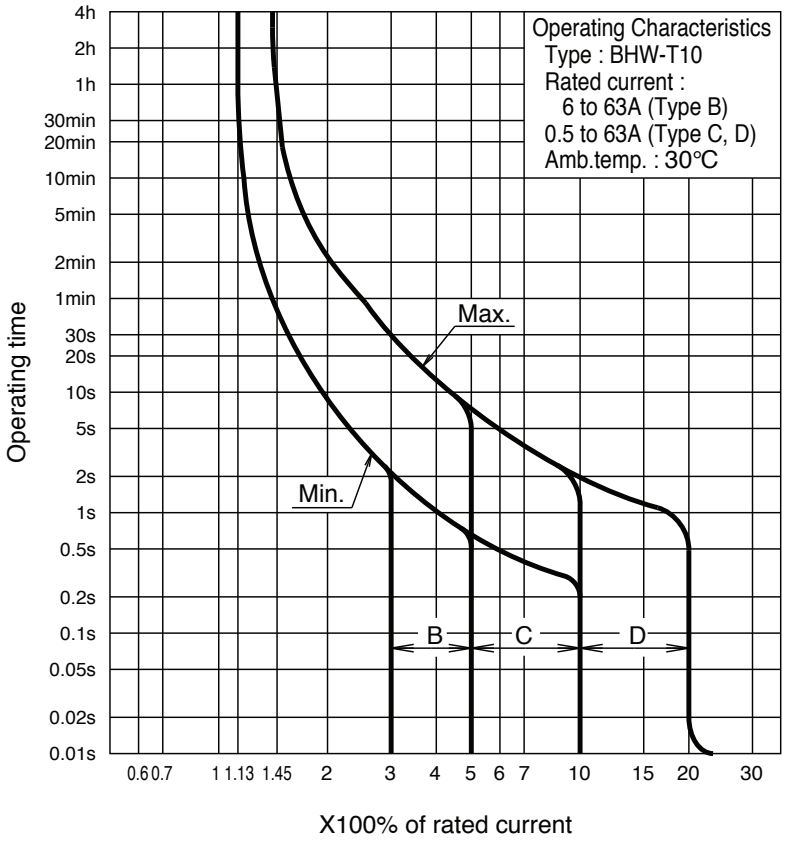


SPECIFICATIONS

				MCB											
Type				BHW-T10											
Image															
No. of poles [P]				1	1+N*1	2	3	3+N*1	4	1	1+N*1	2	3	3+N*1	4
Instantaneous tripping				Type B*2						Type C, D*2					
Rated insulation voltage U_i [V]				660						660					
Rated current I_n [A] at ambient temperature 30°C				6, 10, 16, 20, 25, 32, 40, 50, 63						0.5, 1, 2, 3, 4, 5, 6, 10, 16, 20, 25, 32, 40, 50, 63					
Rated short-circuit capacity [kA]	IEC/EN 60898-1 (Icn)	AC	240V	10						10					
			240/415V	10	–	10				10	–	10			
			415V	–		10				–		10			
Energy limiting class*3				Class 3											
Number of operating cycles	Without current			25,000											
	With current			20,000 (upto 32A) / 15,000 (above 32A)											
Dimensions [mm] 			a	18	36		54	72		18	36		54	72	
			b	92.6											
			c	44											
			ca	Max. 73.5											
Type of overcurrent release				Thermal-magnetic											
Mounting				IEC 35mm rail											
Applicable wire size				1 to 35mm^2											
Mass [kg]				0.13	0.25	0.26	0.39	0.51	0.52	0.13	0.25	0.26	0.39	0.51	0.52
Accessories (optional)*4	Auxiliary switch (AX)			○											
	Shunt trip (SHT)			○											
Terminal connection				Solderless											
Based on standard				IEC/EN 60898-1											
CE marking				○											

*1: N pole is a switched neutral pole (without overcurrent release device).
*2: Type B: (3 I_n <, ≦ 5 I_n), Type C: (5 I_n <, ≦ 10 I_n), Type D: (10 I_n <, ≦ 20 I_n)
*3: Except for Type D
*4: Factory fitted
*5: In case of installing breakers side by side, reduce the passing current to under 80% of the rated current.

OPERATING CHARACTERISTICS



Trip Type	Range of Trip (I_n)	Load Type	Application Load
IS I IEC I EN 60898-1 RANGE			
B	3 to 5 I_n	Resistive	Domestic, Heaters, Showers, Coockers, Genral Socket outlets
C	5 to 10 I_n	Inductive	Motors, general lighting circuits, power supplies.
D	10 to 20 I_n	High Inductive	Transformers, motors, discharge lighting circuits, computers.
Note: There is no Type A instantaneous tripping characteristic to avoide confusion with the A abbrevition for amperes.			

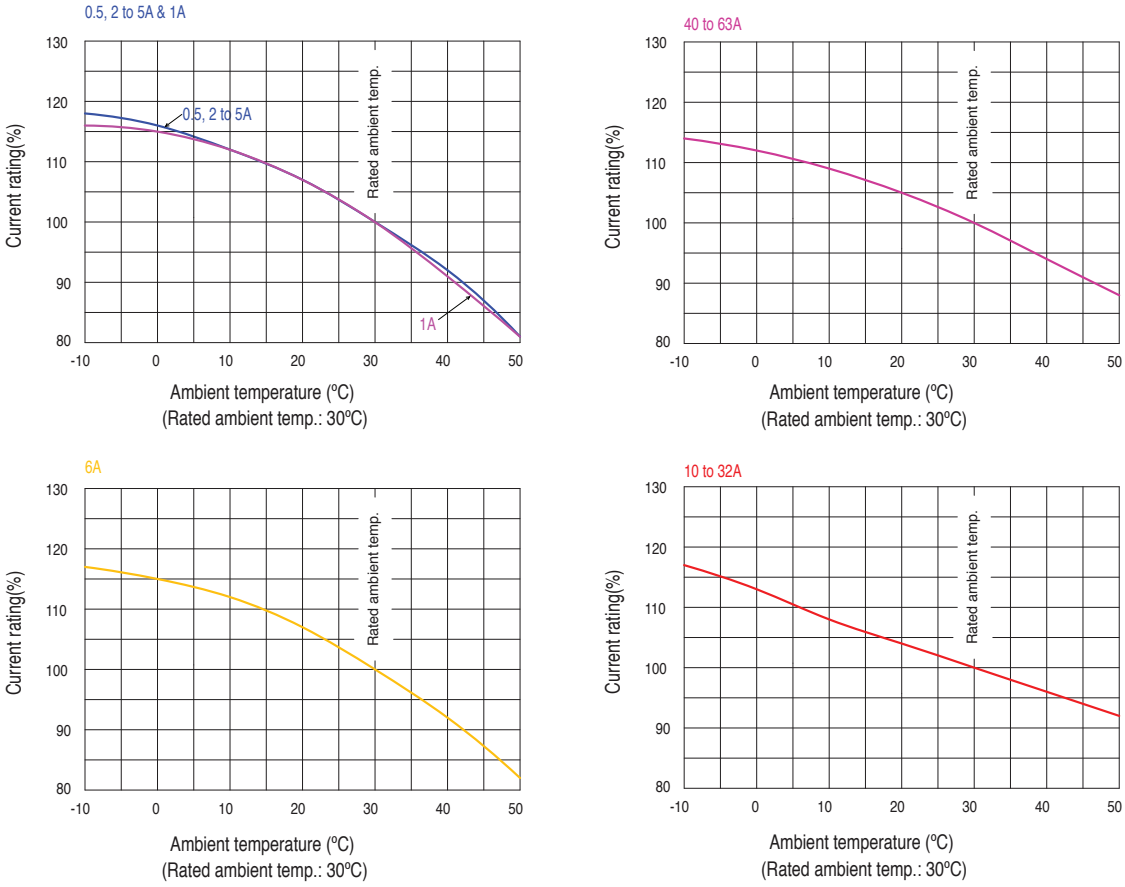
Thermal Tripping : Overload Protection

The overload protection is achieved with a thermal bimetal strip which gets heated and deflected in case of overload (increased current from rated capacity) and hence pulls of latch which separates movig contact from fixed contact. The overload protection works only up to the level where magnetic tripping starts.

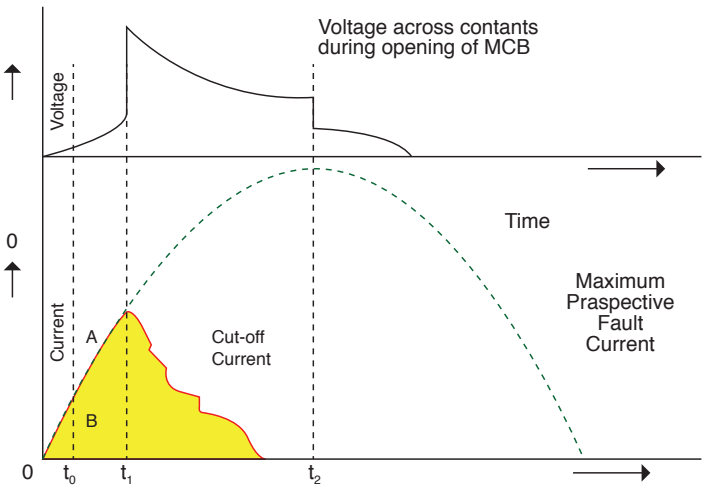
Magnetic tripping : Short Circuit Protection

The short circuit protection is achieved through a solenoid designed on the principle of electromagnetic induction principle. In case of high fault current, magnetic force induced in the solenoid causes plunger to strike on latch which ensures immediate release of tripping mechanism causing contacts to open.

AMBIENT COMPENSATION CURVE



CURRENT LIMITING GRAPH



0 = Point of fault initation
t_0 = Contact opening time (i.e. creation of arc)
t_1 = Current / Voltage peak (i.e. current initation)
t_2 = Time to total extinction of arc (i.e. complete shutdown of fault current)

Accessories

Functions of Accessories

Internal accessory	Function
AX Auxiliary switch	Electrically indicates the On/Off status of the circuit breaker.
SHT Shunt trip	Electrically trips the circuit breaker from a remote location. Permissible working voltage is 100% of the rated voltage.

Equipping of Accessories

Accessory \ Model name	BHW-T10	BVW-T, KBW-T
AX	○	–
SHT	○	–

○: Accessory equipment
–: Accessory not equipped

Specifications

Type		AX
Contact	Configuration	1A1B
	Contact capacity	220VAC 6A
Connection		Lead wire
Compliance standard		IEC 60947-5-1

Specifications

Type	SHT			
Cut-off switch	Equipped			
Voltage	12VDC	24VDC	48VDC	220VAC
Input power requirement	40	110	300	250
Operating time [ms]	<20			
Connection	Solderless			
Compliance standard	IEC 60947-1			

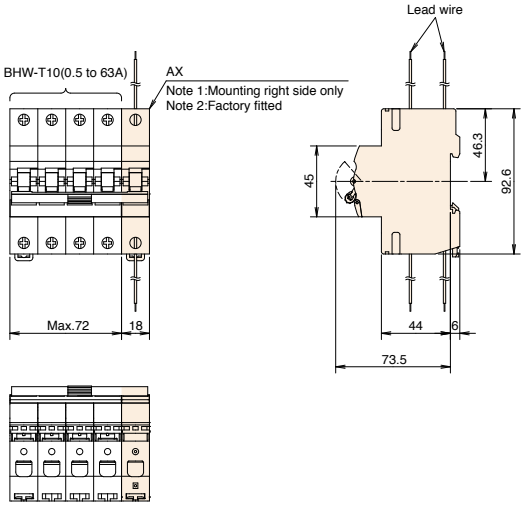
* Secure a sufficient input power supply so that the voltage will not drop below the permissible working voltage (100% of the rated voltage).
* The operating time denotes the time from when the rated voltage is applied to SHT until the time the main contact of the breaker starts to open.

Combinations of Accessories

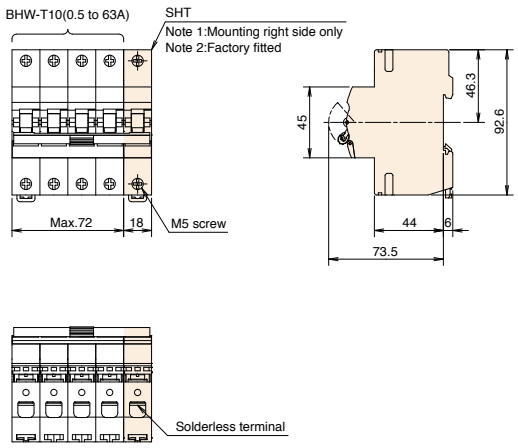
Accessory connection combinations	AX	
	SHT	

Outer Dimensions

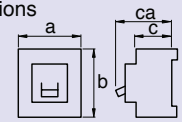
BHW-T10 with AX



BHW-T10 with SHT



SPECIFICATIONS

		Isolating switch						
Type		KBW-T						
Image								
No. of poles [P]		1	2	3	4	2	3	4
Utilization category		AC-22A				AC-22A		
Rated current I_n [A] at ambient temperature 30°C		25, 40, 63				80, 100, 125		
Rated voltage [VAC]		240		240/415		240/415		
Short time withstand current I_{cw} [A]		12×In, 1s				12×In, 1s		
Short-circuit making capacity I_{cm} [A]		12×In				12×In		
Rated impulse withstand voltage Uimp [kV]		6				6		
Pollution degree		2				2		
Dimensions [mm] 	a	18	36	54	72	36	54	72
	b	92.6				92.6		
	c	44				44		
	ca	Max. 73.5				Max. 73.5		
Number of operating cycles	Without current	20,000				15,000 10,000(125A)		
	With current	10,000				10,000 8,000(125A)		
Mounting		IEC 35mm rail				IEC 35mm rail		
Applicable wire size		1 to 35mm^2				16 to 50mm^2		
Mass [kg]		0.12	0.22	0.33	0.47	0.2	0.3	0.4
Terminal connection		Solderless				Solderless		
Based on standard		IEC/EN 60947-3				IEC/EN 60947-3		
CE marking		○				○		

PROTECTION

MUST

RESIDUAL CURRENT
CIRCUIT BREAKER

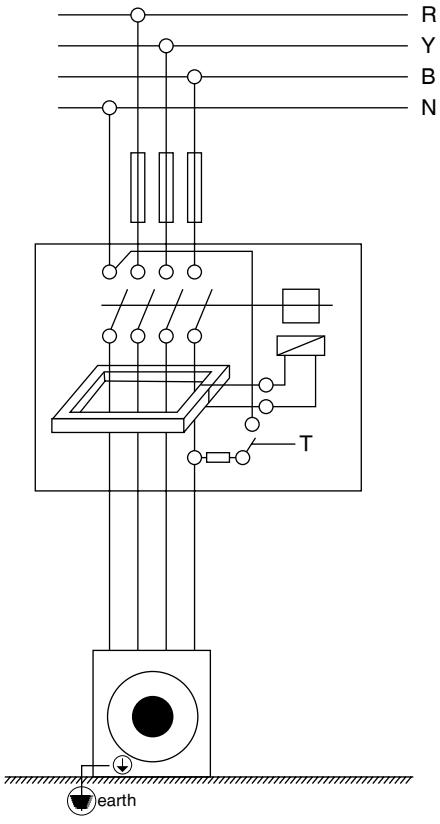
Construction and features

- Automatically disconnect the circuit when earth fault/leakage current occurs and exceeds the rated sensitivity and also fulfills the function of isolation
- High short-circuit current withstand capacity with backup protection fuse
- Equipped with finger protected connection terminals
- Dual termination possible for cable and comb type busbar connection
- Easy padlocking facility
- Fire resistant plastic parts endures abnormal heating and strong impact
- Independent of power supply and line voltage, and free from external interference, voltage fluctuation
- Prevents nuisance tripping due to transient voltage with help of filtering device
- Test button “T” is provided for periodic checkup

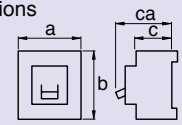
Operating principle

RCCB works on the current balance principle. It incorporates a core balance transformer (CBT) having primary and secondary windings with sensitive relay for instantaneous detection for fault signal. The primary winding lies in series with supply mains and load. Secondary windings is connected to a very sensitive relay. In faultless condition, the magnetizing effect of current carrying conductors cancel each other. There is no residual magnetic field that could induce a voltage in the secondary. During flow of leakage current in the circuit an imbalance is created in the circuit which gives rise to leakage flux in core. This leakage flux generates an electrical signal that is sensed by relay and it trips the mechanism thereby disconnecting supply.

When pressing the TEST button T, (during load condition) a fault is simulated via the test resistance and RCCB trips.



SPECIFICATIONS

		RCCB	
Type		BVW-T	
Image			
No. of poles [P]		2(1+N)*1	4(3+N)*1
Rated current I_n [A] at ambient temperature 30°C		16, 25, 32, 40, 63	
Rated voltage [VAC]		240	415
Rated current sensitivity $I_{\Delta n}$ [mA]		30, 100, 300	
Max. operating time at 5 $I_{\Delta n}$ [s]		0.04	
Pulsating current sensitivity		Type AC	
Dimensions [mm] 	a	36	72
	b	90	
	c	44	
	ca	74	
Rated making and breaking capacity I_m [A]		500(In 16, 25, 32, 40A), 630(In 63A)	
Rated conditional short-circuit current I_{nc} [kA]		6	
Rated residual making and breaking capacity $I_{\Delta m}$ [A]		500(In 16, 25, 32, 40A), 630(In 63A)	
Rated conditional residual short-circuit current $I_{\Delta c}$ [kA]		6	
Number of operating cycles	Without current	10,000*2	
	With current	7,000	
Type of overcurrent release		–	
Mounting		IEC 35mm rail	
Applicable wire size		1 to 35mm^2	
Mass [kg]		0.22	0.44
Terminal connection		Solderless	
Based on standard		IEC/EN 61008-1	
CE marking		○	

*1: N pole is a switched neutral pole (without overcurrent release device).
*2: In case of ampere rating 32, 40 and 63A, the number of operating cycles is 8,000.

PROTECTION AGAINST DIRECT AND INDIRECT CURRENT :

Direct protection in the event of direct contact (unearthed) live parts, extremely sensitive RCCB with rated residual operating current of 30 mA or less are used instead of a more conventional RCCB with higher residual operating fault currents.

Protection is necessary if :

a. The insulation of totally insulated device or their loads are damaged

b. The earth wire is interrupted

c. The earth wire and live wire are transposed

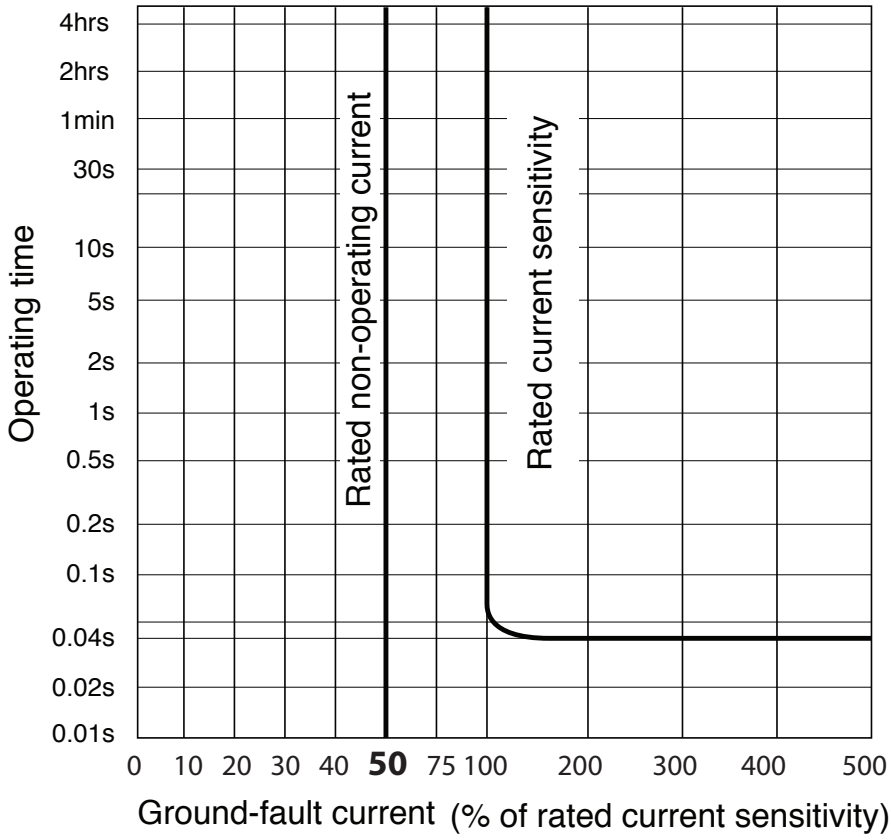
d. A component which is live in normal operations is touched during repair work

Indirect current when a person makes contact with a metal part which accidently been powered up following an insulation fault.

SENSITIVITY APPLICATIONS SELECTION CRITERIA OF RCCB

30mA	Provides additional protection against direct contact. Also protects against leakage currents, and indirect contact.
100mA	Provide protection against indirect contact and leakage current for larger installations. But do not provide the same level of personal protection against direct contact as that of 30 mA RCCB's.
300mA	Lower sensitive protection device, suitable for protection against large instalations having high levels of leakage current. Provide preventive fire protection.

EARTH-LEAKAGE TRIPPING CHARACTERISTICS



Detection of Faulty RCCB

Switch off all the switches/MCB's connected in circuit downstream with the RCCB. Switch ON RCCB and simultaneously switch ON the switches one by one. You will find during switching ON of a particular appliances/switch RCCB trips again and again. Which shows that this is a faulty circuit/appliance. Isolate the faulty circuit, rectify the fault and switch ON the RCCB.

Earth-leakage Test

Earth-leakage test steps:

(1) Move the handle to the On position under rated voltage.
(2) Push the yellow test button.
(3) At this time, the RCCB must be tripped within the specified time.
(4) The handle will move to the Off position.

* Please conduct the above test regularly.
* Do not use the test button to switch off the RCCB.

Test Frequently

Withstand Voltage Test

(1) Withstand voltage test: The voltage applied to the main circuit during the withstand voltage test is 2,000VAC (effective for 1min). Do not conduct a withstand voltage tests using voltages exceeding 2,000VAC.
(2) Measurement of insulation resistance and withstand voltage test
Please note the following restrictions (① and ② below) that apply when using earth-leakage circuit breakers.

① Measuring insulation resistance:
- Do not use a 1000V insulation resistance tester. Please use a 500V insulation resistance tester.
- The "▲" marks in the table are based on minimum insulation resistance values.

② Testing withstand voltage: The "×" marks in the table below indicate that the test voltage is not to be applied to that model. (If a test voltage is accidently applied to one of these models, do not reuse the product regardless of whether or not they were tripped.)

Measuring position / Test				Insulation resistance measurement		Withstand voltage test	
Handle position				ON	OFF	ON	OFF
Between main circuit live part and ground				○	○	○	○
Between different poles	On line side	BVW-T 2P		▲	○	×	○
		BVW-T 4P	Between right pole (terminal symbol 6) and N pole	▲	○	×	○
			Between poles other than above	○	○	○	○
	On load side	BVW-T 2P		▲	▲	×	×
		BVW-T 4P	Between right pole (terminal symbol 6) and N pole	▲	▲	×	×
			Between poles other than above	○	○	○	○
Between terminals on line side and load side				–	○	–	○

Ordering Information

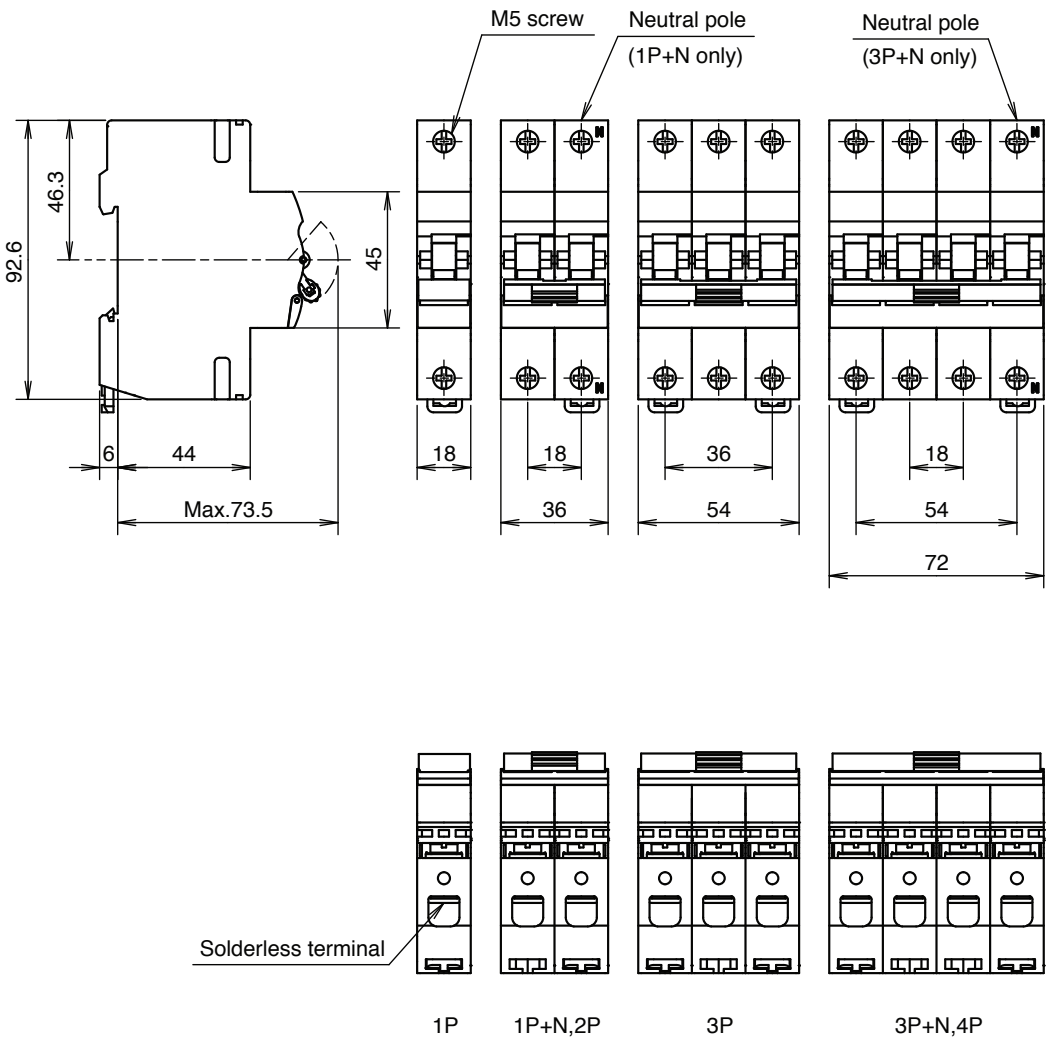
Please specify items with ☐

Type name	Number of poles	Operating characteristics	Rated current	Internal accessory		Quantity
BHW-T10	1P	Type C	16A	SHT(12VDC)		12
BHW-T10	1P, 1P+N, 2P, 3P, 3P+N, 4P	Type B Type C Type D	0.5, 1, 2, 3, 4, 5, 6, 10, 16, 20, 25, 32, 40, 50, 63A	Shunt trip	SHT(12VDC), SHT(24VDC), SHT(48VDC), SHT(220VAC)	
				Auxiliary switch	AX	

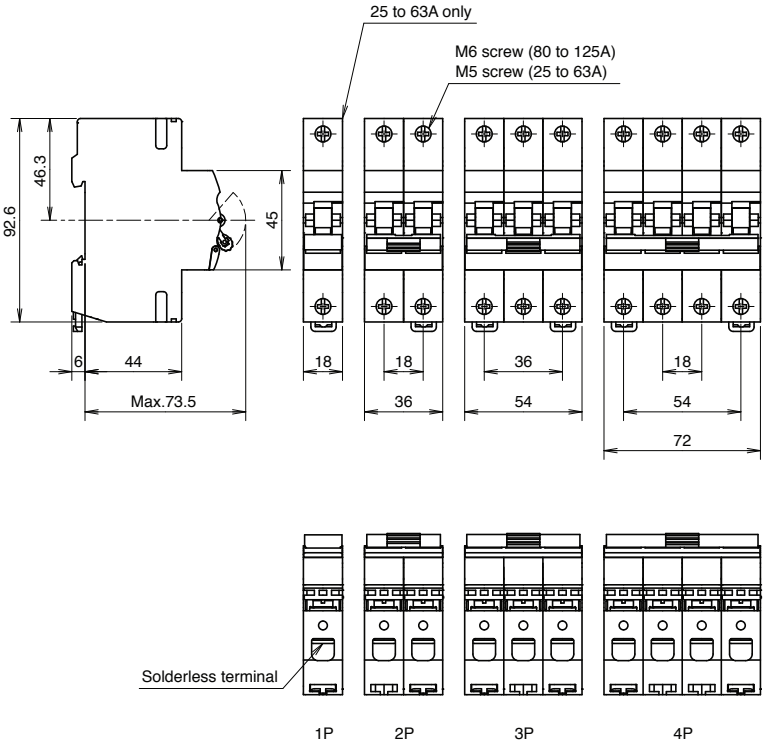
Type name	Number of poles	Rated current	Quantity
KBW-T	1P	63A	12
	1P, 2P, 3P, 4P	25, 40, 63, 80, 100, 125A	

Type name	Number of poles	Rated current	Rated sensitivity current	Quantity
BVW-T	2P	63A	30mA	6
	2P, 4P	16, 25, 32, 40, 63A	30, 100, 300mA	

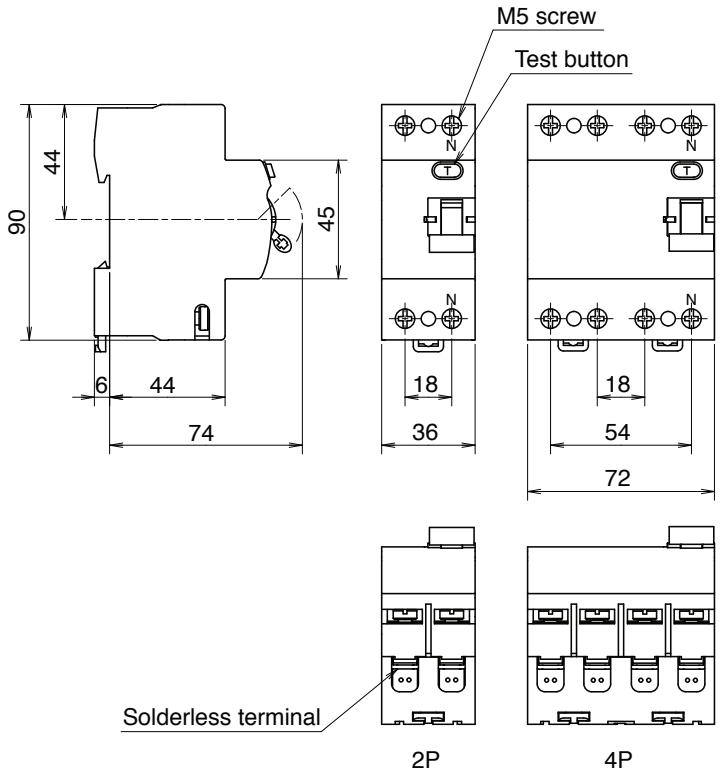
Miniature Circuit Breakers



Isolating Switches



Residual Current Circuit Breakers



ARTISTIC

TRUST

DISTRIBUTION
BOARD

A Perfect Blend of Style & Precision

Mitsubishi Electric's distribution boards have been specially designed to provide excellent aesthetics for the interiors of modern day houses and are suitable for all domestic, commercial and industrial applications.

With a blend of style, flexibility and safety, the DIN series distribution boards are made up of fine quality CRCA steel for long lasting strength.

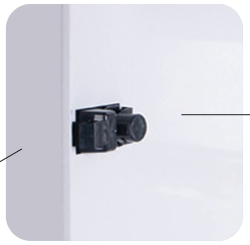
Manufactured with the help of high precision deep drawn tools (no welding involved), and treated with nine tank phosphating process these distribution boards provide perfect quality and high corrosion resistance.

Available in both flush as well as surface mounting type the DB's are fitted with an unique cassette assembly which facilitates easy removale of intermediate player and minimises the assembly time.

SALIENT FEATURES

- Tested in compliane with IEC 61439 - 3 standards from third party and in-house test labs
- IP 43 protection
- Manufactured by Deep drawn tools for precise dimensional accuracy, weld free process
- Additional safety for users with help of Shrouded Neutral links, Insulated bus bar and door earthing
- Reversible and easy mounting of door on either side of the board
- Detachable Din rail assembly (cassette type) for ease in wiring during installation and maintenance
- Excellent aesthetics - Pure white in colour to suit any type of interior walls, high corrosion and scratch resistance
- Cement protection sheet provided as standard for protection during masonry work

Flushed and sliding Latch:
Aesthetically pleasing black colour auto locking sliding latch/knob



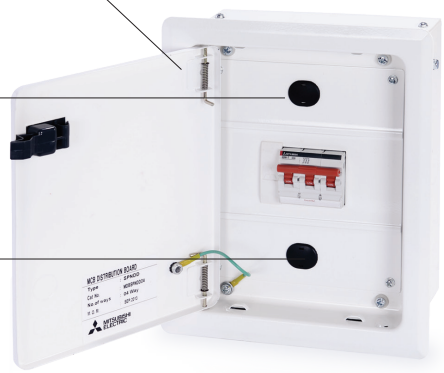
Earthing:
Door earthing to prevent shock due to current leakage
Earthing screw identified with the help of embossed impression

Safety:
Circuit identification provided on MCB's for better safety

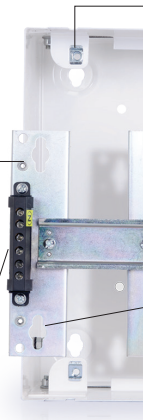
Easy Reversible mounting & removal of door / Reversible mounting of door:
Unique spring loaded hinge mechanism to easily remove the door from frame for convenient installation / maintenance.
Door can be mounted on either side hence allowing flexibility of mounting under varying site condition

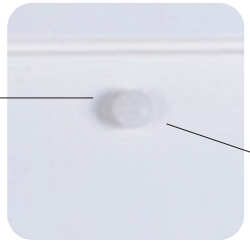
Dust free and safe:
Two finger holes for lifting the plate, plugged to keep the board dust free and safe

Shrouded neutral link/Insulated bus bar for better safety and protection:
Insulated bus bar and shrouded neutral terminal for enhanced safety and protection

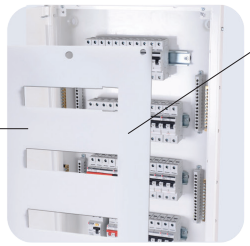


Unique cassette type assembly:
For ease of assembly and maintenance. Removal of MCB mounted inside the DB can be done by removal of four screws, hence helping easy wiring and replacement





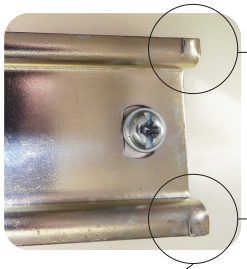
Knob provide for easy Handling and removal of middle plate



Easy Handling:
Removeable middle plate for easy wiring, mounting and installation

Detachable gland plates:
Detachable gland plates provided on top and bottom for easy and flexible cabling / installation

Steel nut inserts:
Special deep steel nut inserts able to bear high torque, no risk of poor threading or powder deposition on threads



Side locking DIN bar
Stoppers provided at the end of DIN bar for avoiding slippage of the products

Double mounting key holes:
For easy positioning, DB's are provided with double mounted key holes

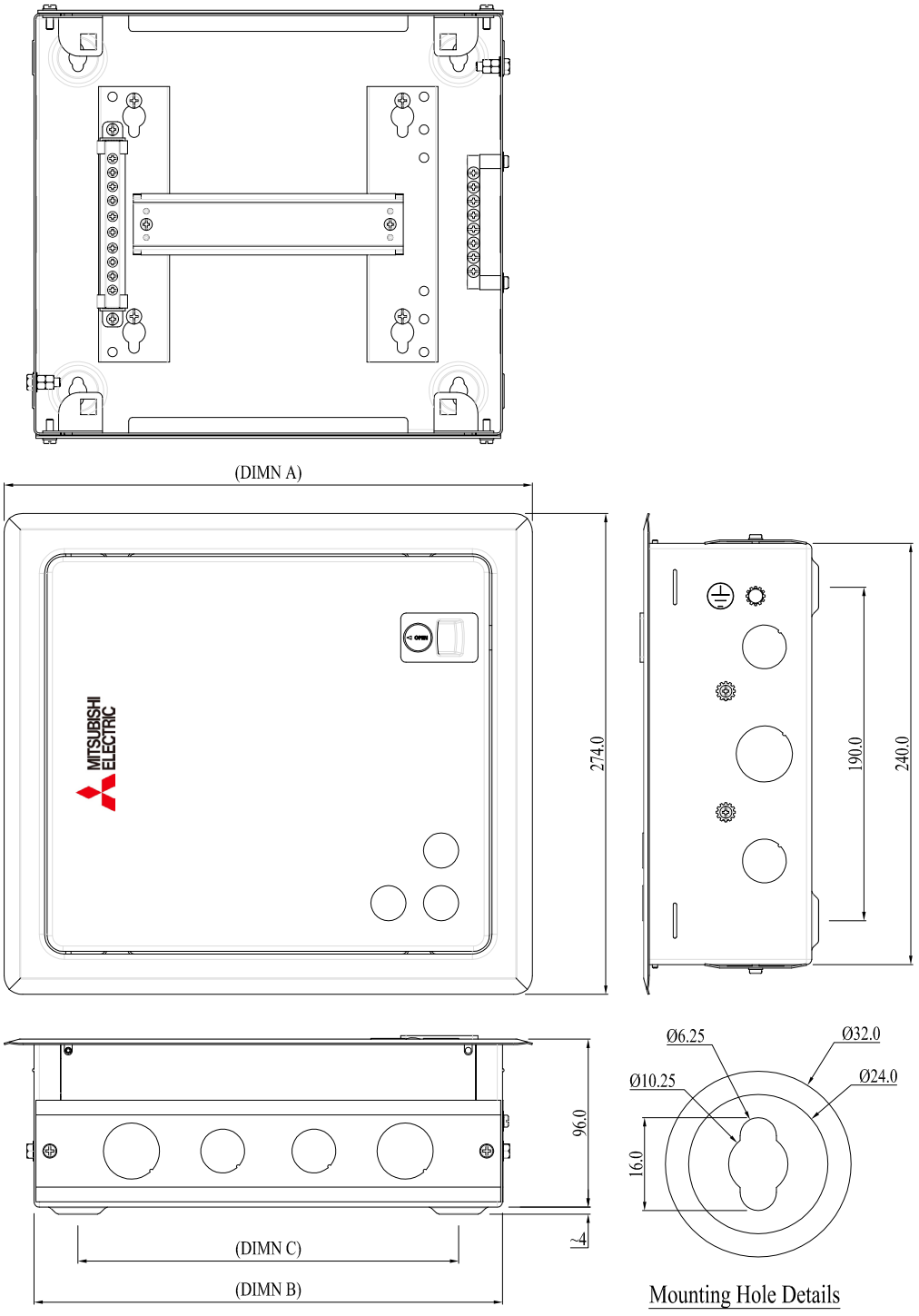
Enhanced Aesthetics:
Standard DB's are tapered on the front surface, coated with pure white scratch resistant powder to compliment the interior of house

Deep Drawn Front Frame and Door:
Construction with deep draw tool ensures there are no weld marks, increased impact resistance, high accuracy & precision.

METALLIC DISRIBUTION BOARDS - RANGE

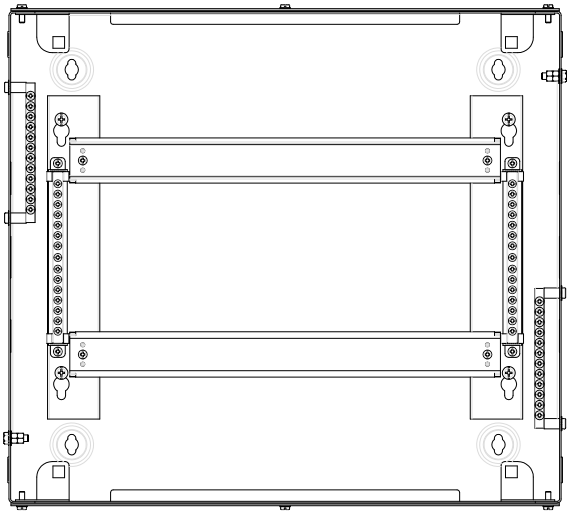
- SPN Horizontol Double Door Distribution Board - 04 way to 16 way
- TPN Horizontol Double Door Distribution Board - 04 way to 16 way
- VTPN Distribution Board with Miniature Circuit Breaker (upto 63A) as incomer - 04,08,12 way
- VTPN Distribution Board with Moulded Case Circuit Breaker (upto 250A) as incomer - 04,08,12 way
- Flexi (tier) Distribution Board 2 Row / 3 Row / 4 Row - upto 13 module per Row
- Seven segment Distribution Board - 04 way to 12 way
- Per Phase Isolation Distribution Board - 04 way to 12 way
- TPN Phase selector Distribution Board - 04 way to 12 way
- Plug and socket Distribution Board -SPN - 10A, 20A and TPN -20A, 30A
- Cable end box Distribution Board

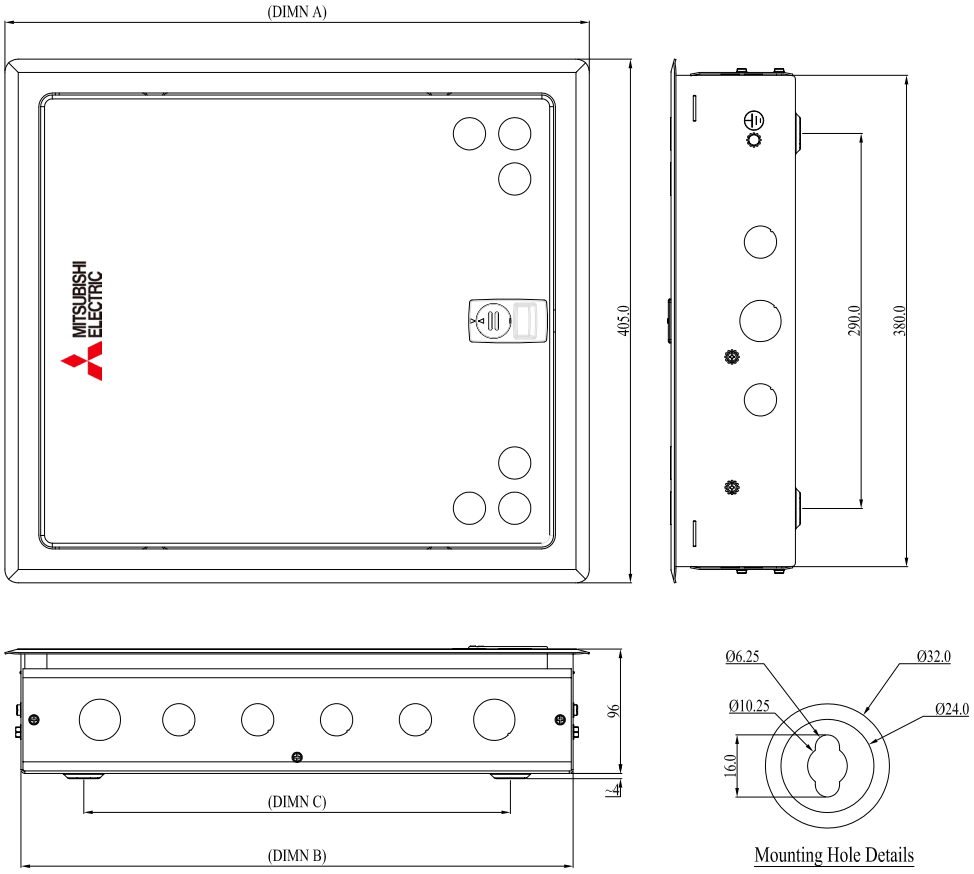
SPN DD DISTRIBUTION BOARD



All Dimensions are in mm					TOP		BOTTOM		SIDES	
Cat.No.	No.of Way	A	B	C	Ø32 Knockout	Ø25 Knockout	Ø32 Knockout	Ø25 Knockout	Ø32 Knockout	Ø25 Knockout
MDBSPNDD04	04	229.0	195.0	145.0	1 Nos.	2 Nos.	1 Nos.	2 Nos.	1 No.	2 Nos.
MDBSPNDD08	08	301.0	267.0	217.0	2 Nos.	2 Nos.	2 Nos.	2 Nos.	1 No.	2 Nos.
MDBSPNDD12	12	373.0	339.0	289.0	2 Nos.	4 Nos.	2 Nos.	4 Nos.	1 No.	2 Nos.
MDBSPNDD16	16	445.0	411.0	361.0	2 Nos.	5 Nos.	2 Nos.	5 Nos.	1 No.	2 Nos.

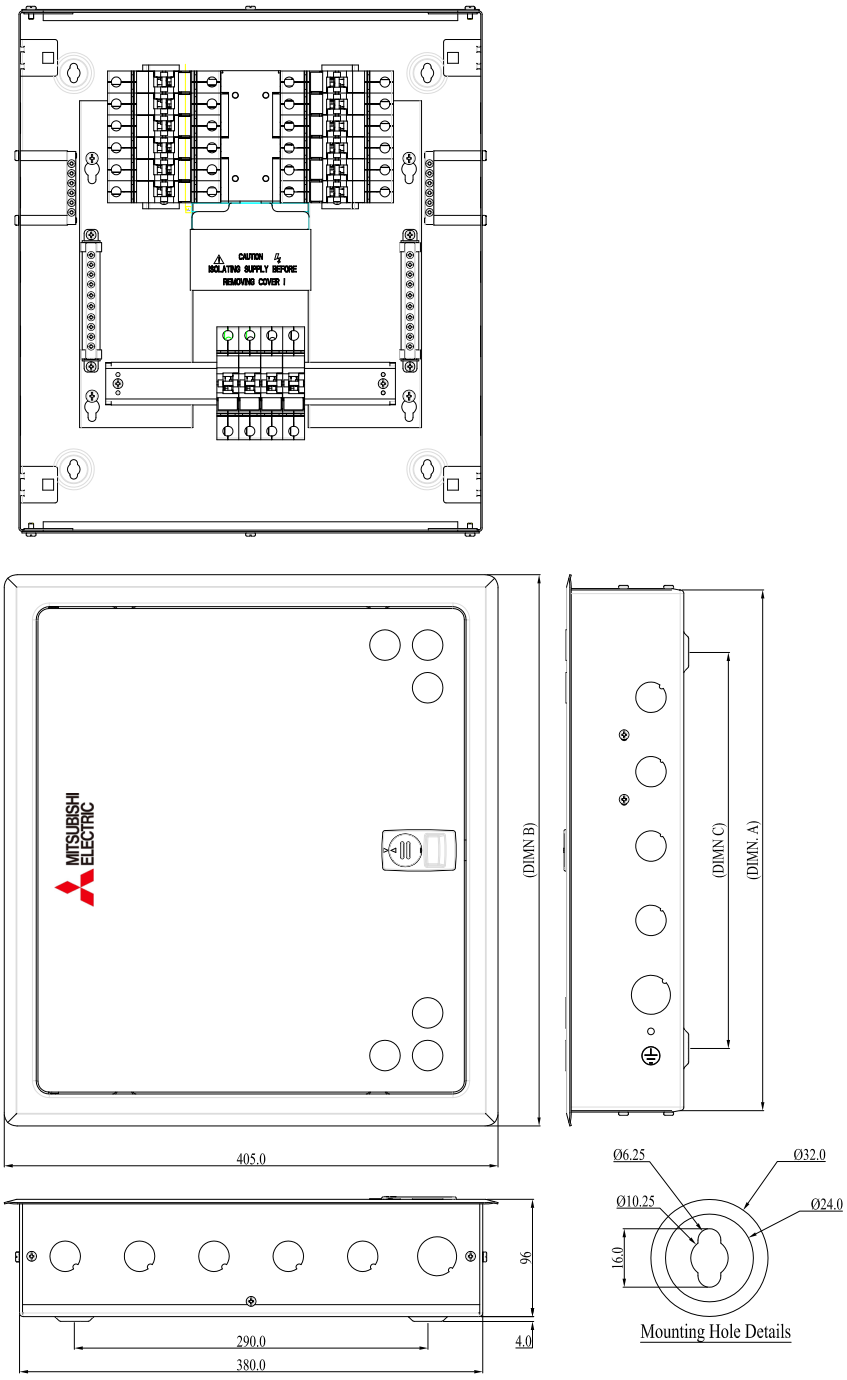
TPNH DD DISTRIBUTION BOARD





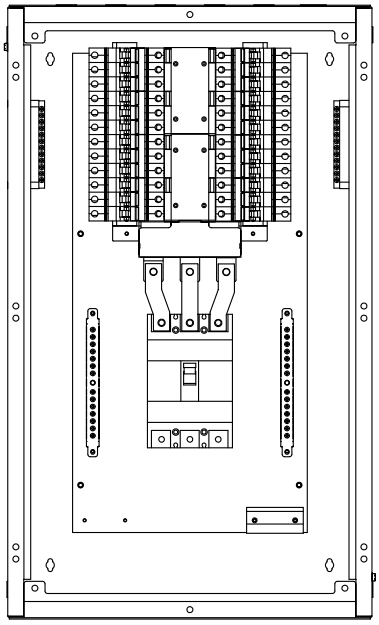
All Dimensions are in mm					TOP		BOTTOM		SIDES	
Cat.No.	No.of Way	A	B	C	Ø32 Knockout	Ø25 Knockout	Ø32 Knockout	Ø25 Knockout	Ø32 Knockout	Ø25 Knockout
MDBTPNHDD04	04	417.0	392.0	295.0	2 Nos.	4 Nos.	2 Nos.	4 Nos.	1 No.	2 Nos.
MDBTPNHDD06	06	417.0	392.0	295.0	2 Nos.	4 Nos.	2 Nos.	4 Nos.	1 No.	2 Nos.
MDBTPNHDD08	08	452.0	427.0	330.0	2 Nos.	4 Nos.	2 Nos.	4 Nos.	1 No.	2 Nos.
MDBTPNHDD12	12	597.0	572.0	380.0	2 Nos.	7 Nos.	2 Nos.	7 Nos.	1 No.	2 Nos.
MDBTPNHDD16	16	742.0	717.0	430.0	2 Nos.	9 Nos.	2 Nos.	9 Nos.	1 No.	2 Nos.

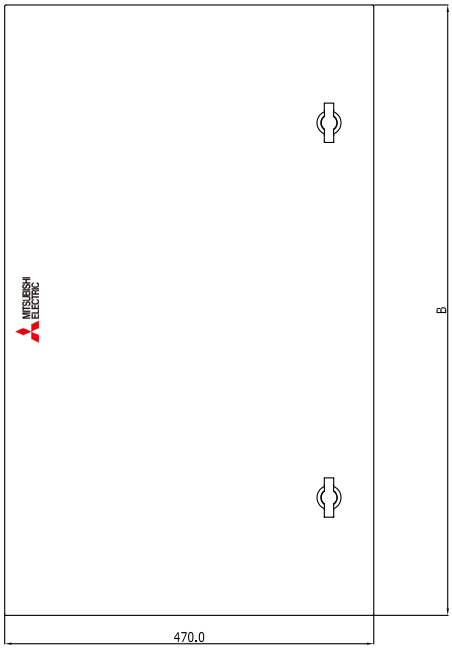
VTPN MCB AS INCOMER DISTRIBUTION BOARD

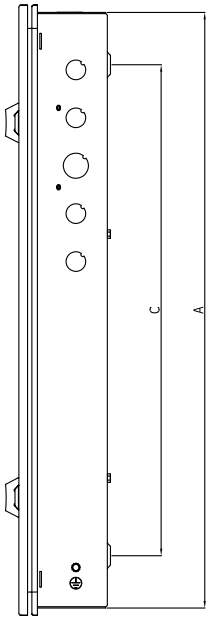


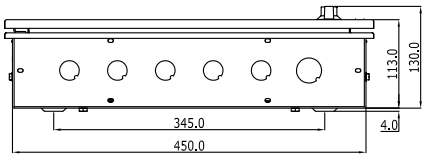
All Dimensions are in mm					TOP		BOTTOM		SIDES	
Cat.No.	No.of Way	A	B	C	Ø32 Knockout	Ø25 Knockout	Ø32 Knockout	Ø25 Knockout	Ø32 Knockout	Ø25 Knockout
MDBTPNVDD04	04	427.0	452.0	325.0	1 No.	5 Nos.	1 No.	5 Nos.	1 No.	4 Nos.
MDBTPNVDD08	08	572.0	597.0	470.0	1 No.	5 Nos.	1 No.	5 Nos.	1 No.	4 Nos.
MDBTPNVDD12	12	717.0	742.0	615.0	1 No.	5 Nos.	1 No.	5 Nos.	1 No.	4 Nos.

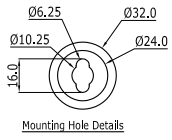
VTPN MCCB AS INCOMER DISTRIBUTION BOARD





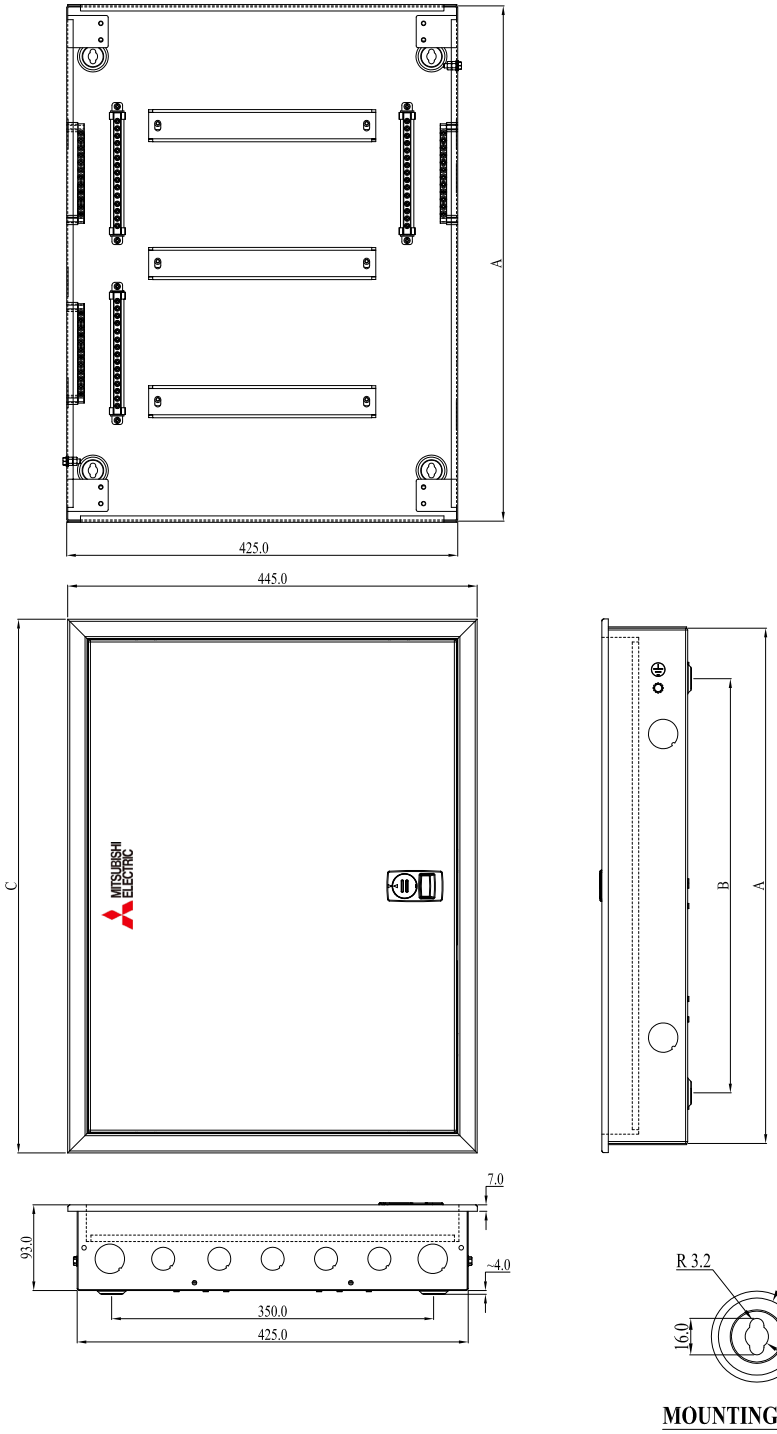






All dimensions are in mm					TOP		BOTTOM		SIDES	
Cat.No.	No.of Way	A	B	C	Ø32 Knockout	Ø25 Knockout	Ø32 Knockout	Ø25 Knockout	Ø32 Knockout	Ø25 Knockout
MDBMCCB250DD04	04	653.0	669.0	517.0	1 No.	5 Nos.	1 No.	5 Nos.	1 No.	4 Nos.
MDBMCCB250DD08	08	761.0	777.0	625.0	1 No.	5 Nos.	1 No.	5 Nos.	1 No.	4 Nos.
MDBMCCB250DD12	12	869.0	885.0	733.0	1 No.	5 Nos.	1 No.	5 Nos.	1 No.	4 Nos.

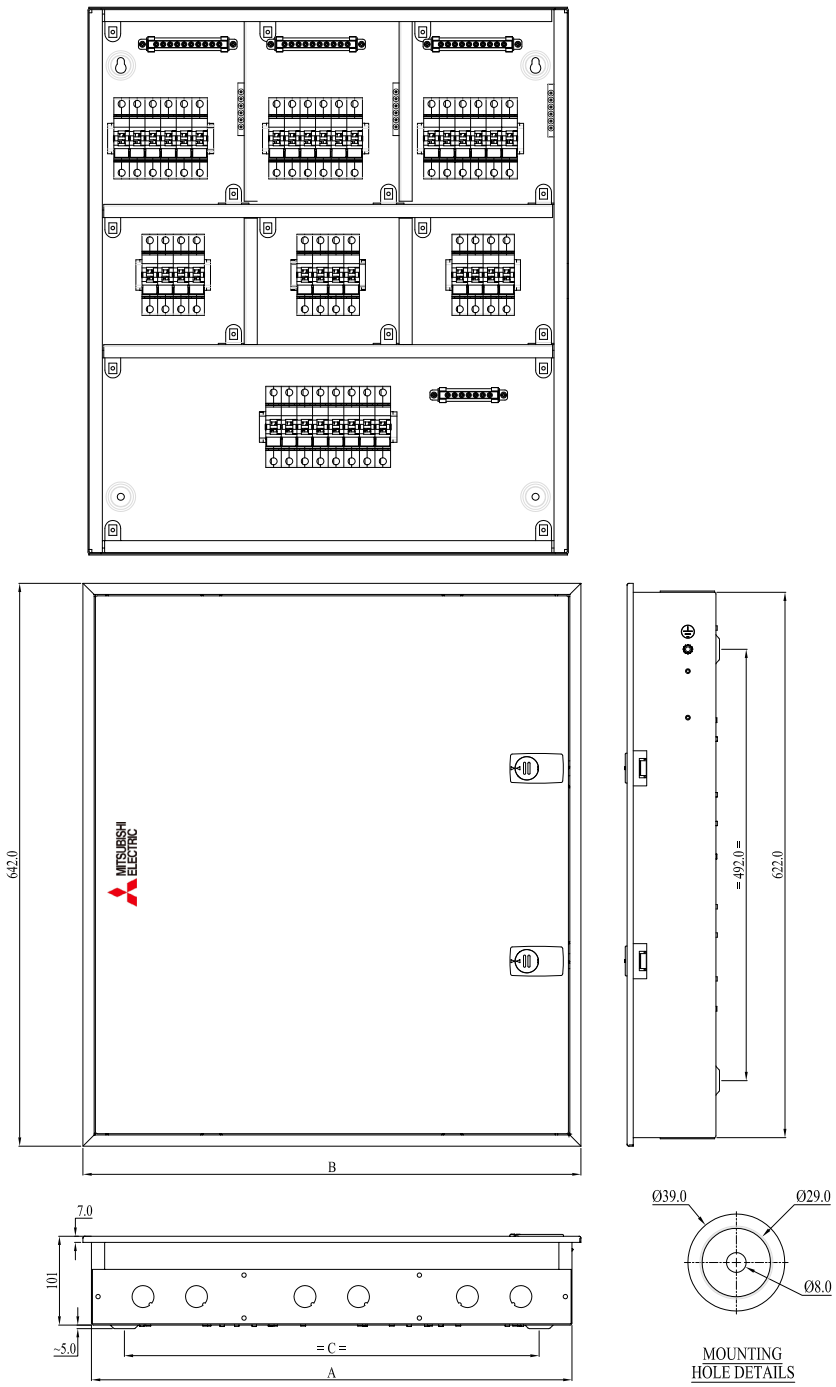
FLEXI DD DISTRIBUTION BOARD



MOUNTING HOLE DETAIL

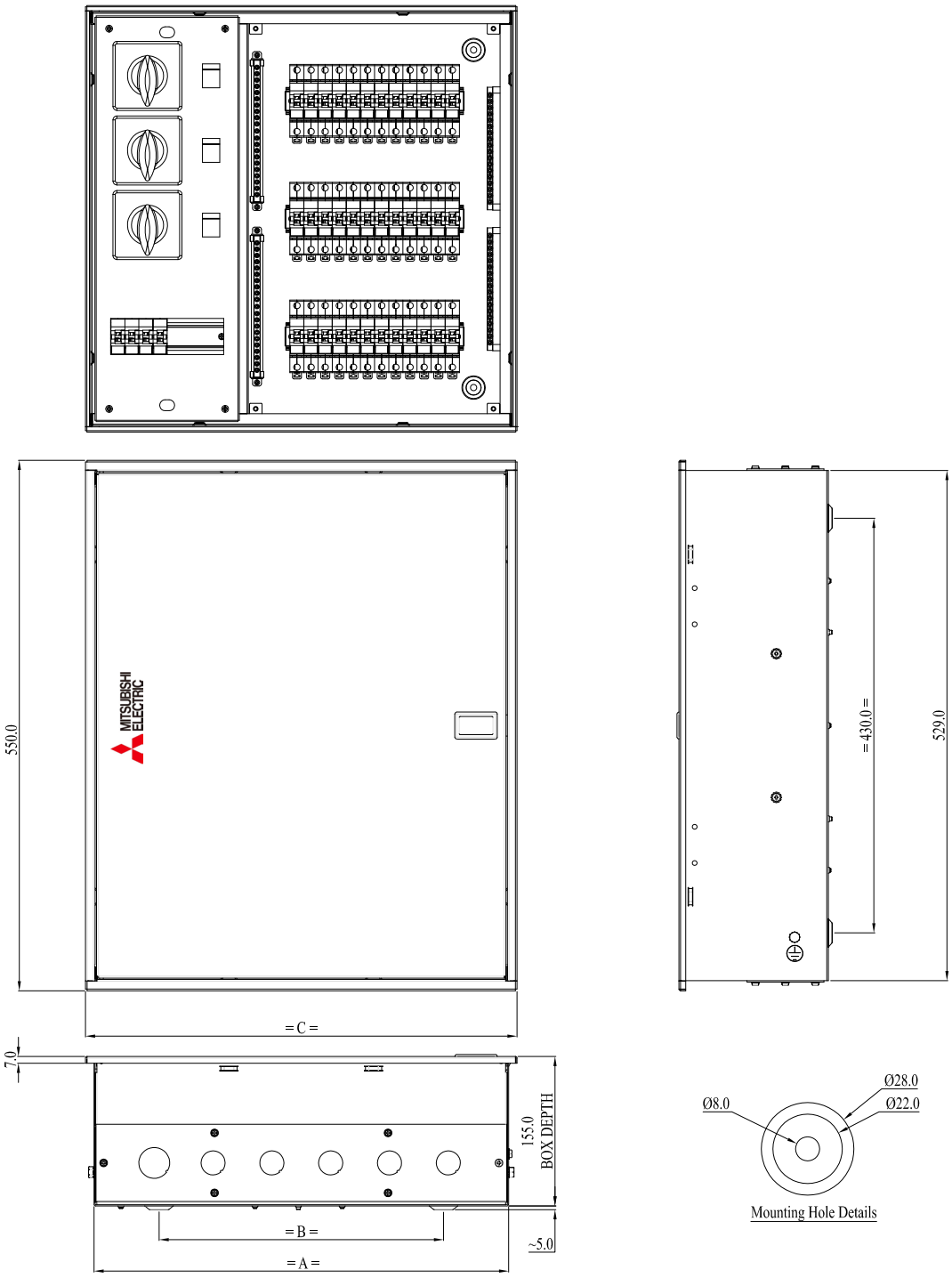
All Dimensions are in mm								TOP/BOTTM (BOTH SIDES)		L & R SIDES (BOTH SIDES)	SHEET. THICK
S.No.	Cat.No.	Decription	A	B	C	NEUTRAL DETAIL	EARTHING DETAIL	Ø25 Knockout	Ø32 Knockout	Ø32 Knockout	
1	MDBFLDD2R13	FLEXI DD DB 26 WAY 2 R 13M	415.0	305.0	435.0	15 Conn. x 2	12 Conn. x 2	5 Nos.	2 Nos.	2 Nos.	1.2mm
2	MDBFLDD3R13	FLEXI DD DB 39 WAY 3 R 13M	560.0	450.0	580.0	15 Conn. x 3	12 Conn. x 3	5 Nos.	2 Nos.	2 Nos.	1.2mm
3	MDBFLDD4R13	FLEXI DD DB 52 WAY 4 R 13M	720.0	610.0	740.0	15 Conn. x 4	12 Conn. x 4	5 Nos.	3 Nos.	2 Nos.	1.2mm

7 SEGMENT DD DISTRIBUTION BOARD



S.No.	Cat.No.	No. OF WAY	Decription	(A)	(B)	(C)	TOP/BOTTOM Ø25.0 KNOCKOUTS	NEUTRAL DETAIL	EARTHING DETAIL	SHEET THICK
1	MDBSEGDD04	04	7 SEG. DD DB 04 WAY	440.0	460.0	365.0	6 NOS.	6 Conn. x 3	4 Conn. x 3	1.2mm.
2	MDBSEGDD06	06	7 SEG. DD DB 06 WAY	548.0	568.0	473.0	6 NOS.	10 Conn. x 3	6 Conn. x 3	1.2mm.
3	MDBSEGDD08	08	7 SEG. DD DB 08 WAY	656.0	676.0	581.0	6 NOS.	10 Conn. x 3	8 Conn. x 3	1.6mm.
4	MDBSEGDD12	12	7 SEG. DD DB 12 WAY	872.0	892.0	797.0	6 NOS.	15 Conn. x 3	12 Conn. x 3	1.6mm.

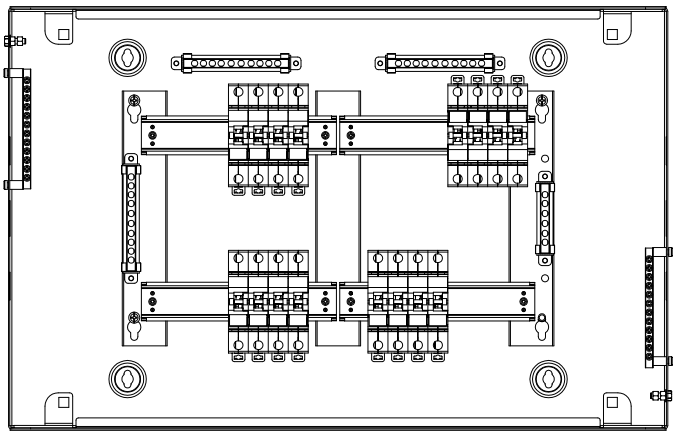
TPNH DD PHASE SELECTOR DISTRIBUTION BOARD

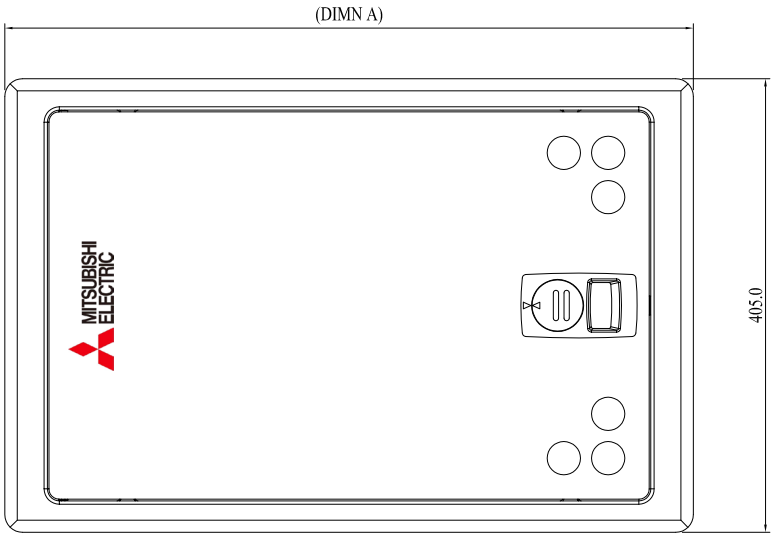


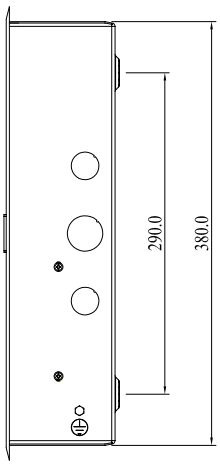
All Dimensions are in mm						TOP		BOTTOM		NEUTRAL DETAIL.	EARTHING DETAIL.	SHEET THICK.
S.No.	Cat.No.	No.of Way	A	B	C	Ø32 Knockout	Ø25 Knockout	Ø32 Knockout	Ø25 Knockout			
1	MDBPHSDD04#	04	395.0	295.0	413.0	1 No.	4 Nos.	1 No.	4 Nos.	15 Conn. x 1	12 Conn. x 1	1.2mm
2	MDBPHSDD06#	06	431.0	331.0	449.0	1 No.	5 Nos.	1 No.	5 Nos.	21 Conn. x 1	18 Conn. x 1	1.2mm
3	MDBPHSDD08#	08	467.0	367.0	485.0	1 No.	5 Nos.	1 No.	5 Nos.	15 Conn. x 2	12 Conn. x 2	1.2mm
4	MDBPHSDD12#	12	539.0	439.0	557.0	1 No.	7 Nos.	1 No.	7 Nos.	21 Conn. x 2	18 Conn. x 2	1.2mm

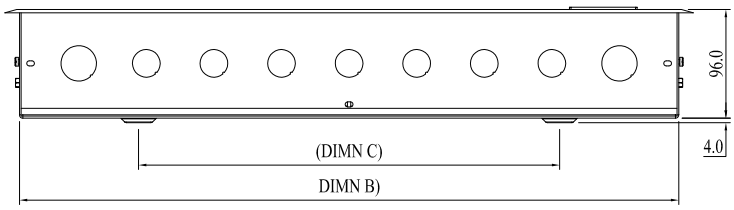
Available fitted with rotary switch 40A-63A

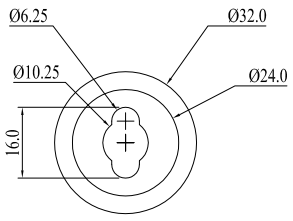
TPNH PPI DD DISTRIBUTION BOARD







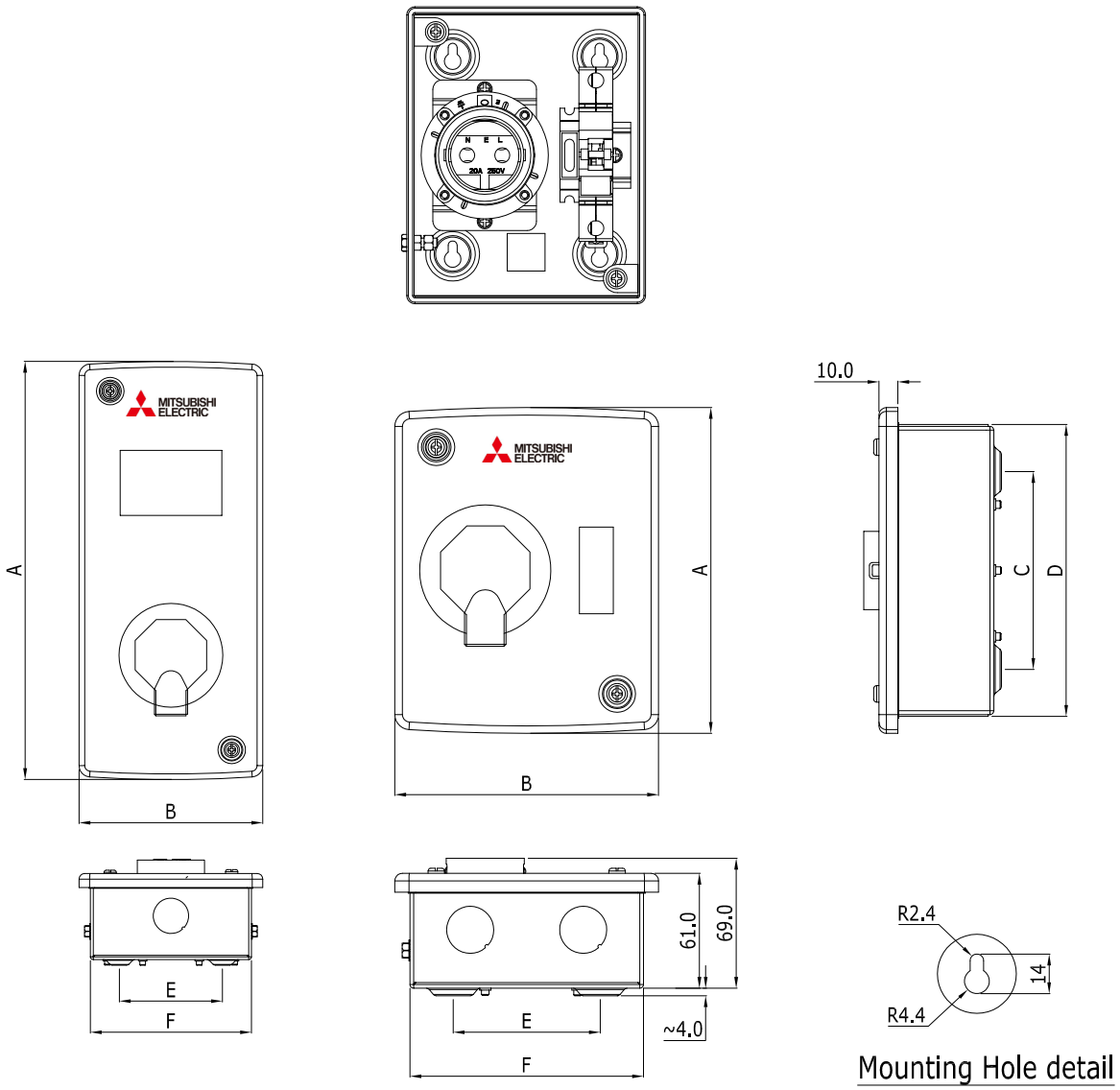




Mounting Hole Details

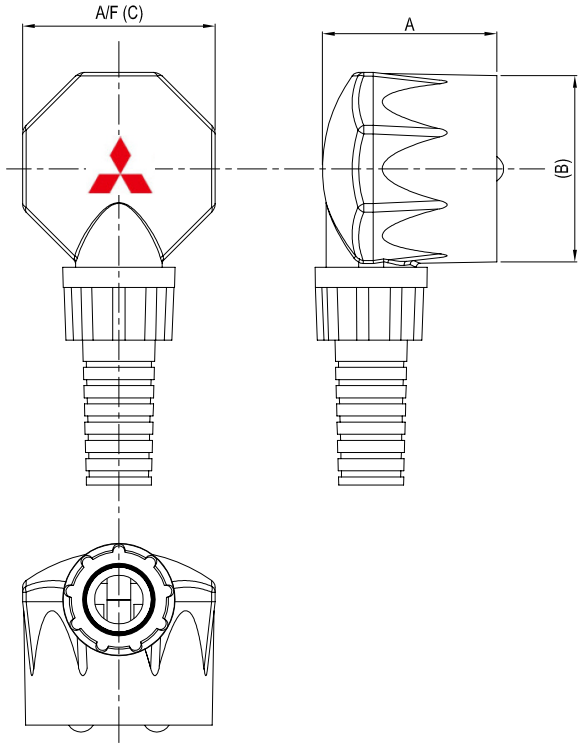
All Dimensions are in mm					TOP		BOTTOM		SIDES	
Cat.No.	No.of Way	A	B	C	Ø32 Knockout	Ø25 Knockout	Ø32 Knockout	Ø25 Knockout	Ø32 Knockout	Ø25 Knockout
MDBTPNPPIDD04	04	452.0	427.0	330.0	2 Nos.	4 Nos.	2 Nos.	4 Nos.	1 No.	2 Nos.
MDBTPNPPIDD06	06	597.0	572.0	380.0	2 Nos.	7 Nos.	2 Nos.	7 Nos.	1 No.	2 Nos.
MDBTPNPPIDD08	08	597.0	572.0	380.0	2 Nos.	7 Nos.	2 Nos.	7 Nos.	1 No.	2 Nos.
MDBTPNPPIDD12	12	742.0	717.0	430.0	2 Nos.	9 Nos.	2 Nos.	9 Nos.	1 No.	2 Nos.

PLUG & SOCKET



All dimensions are in mm							TOP	BOTTOM	SHEET. THICK
Cat.No.	A	B	C	D	E	F	Ø25Knockout	Ø25Knockout	
MDBPSSPN010	173.0	140.0	105.0	153.0	78.0	124.0	2 Nos.	2 Nos.	1.0mm
MDBPSSPN020	173.0	140.0	105.0	153.0	78.0	124.0	2 Nos.	2 Nos.	1.0mm
MDBPSTPN020	296.0	130.0	234.0	276.0	73.0	114.0	1 No.	1 No.	1.0mm
MDBPSTPN030	296.0	130.0	234.0	276.0	73.0	114.0	1 No.	1 No.	1.0mm
MDBPSSPN020SP	173.0	140.0	105.0	153.0	78.0	124.0	2 Nos.	2 Nos.	1.0mm

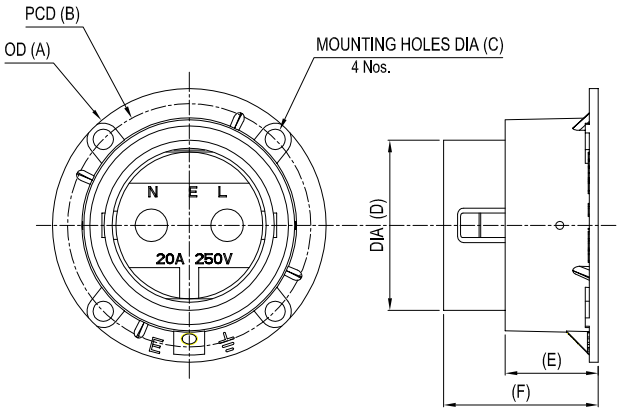
PLUG



Plug dimensions are in mm

S.No.	CAT. No.	DESCRIPTION	(A)	(B)	A/F(C)
04	MDBPTPN030	PLUG 30A TPN	74.0	62.5	68.0
03	MDBPTPN020	PLUG 20A TPN	44.0	52.5	56.0
02	MDBPSPN020	PLUG 20A SPN	43.0	45.5	47.5
01	MDBPSPN010	PLUG 10A SPN	37.0	39.0	42.0

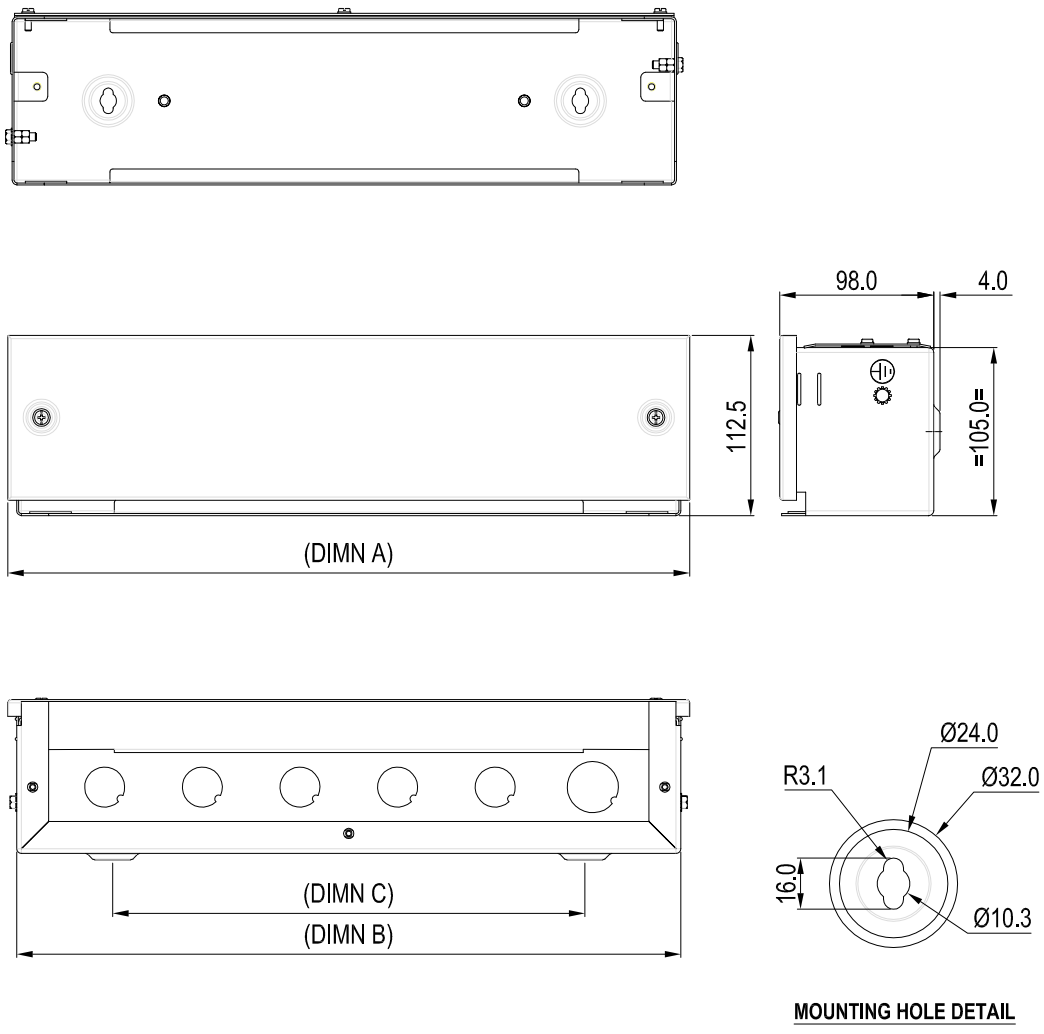
SOCKET



Socket dimensions are in mm

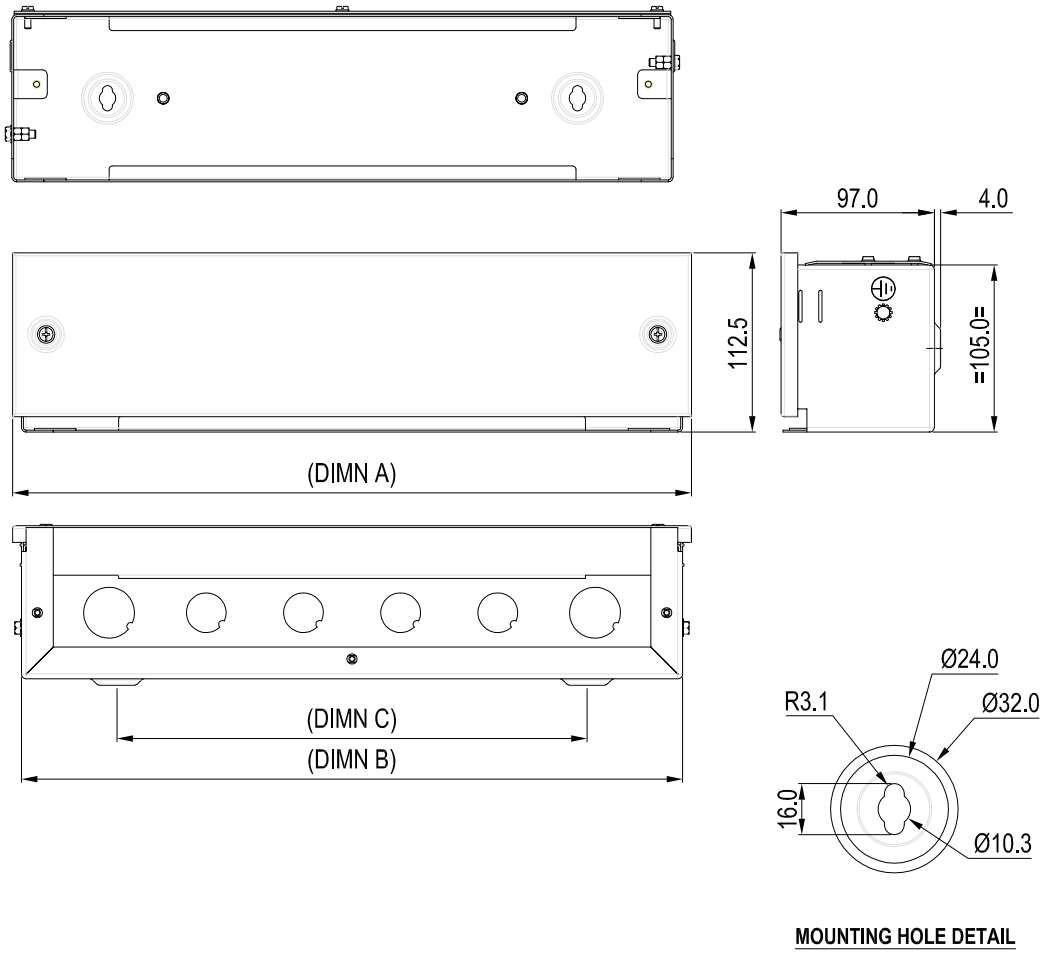
S.No.	CAT. No.	DESCRIPTION	DIA (A)	(B)	DIA (C)	DIA (D)	(E)	(F)
04	MDBSTPN030	SOCKET 30A TPN	84.0	PCD 75.0	5.0	56.5	31.5	55.0
03	MDBSTPN020	SOCKET 20A TPN	76.0	PCD 68.0	5.0	47.0	23.0	41.5
02	MDBSSPN020	SOCKET 20A SPN	67.5	PCD 60.0	5.0	41.0	23.0	38.0
01	MDBSSPN010	SOCKET 10A SPN	57.0	PCD 50.8	4.2	35.0	15.0	28.0

CABLE END BOX FOR TPNV DOUBLE DOOR DISTRIBUTION BOARD



All dimensions are in mm					TOP	
Cat. No.	No.of ways	A	B	C	Ø25 Knockout	Ø32 Knockout
MDBCBTPNVDD	04,08 & 12 WAY	405.0	380.0	290.0	5 Nos.	1 Nos.

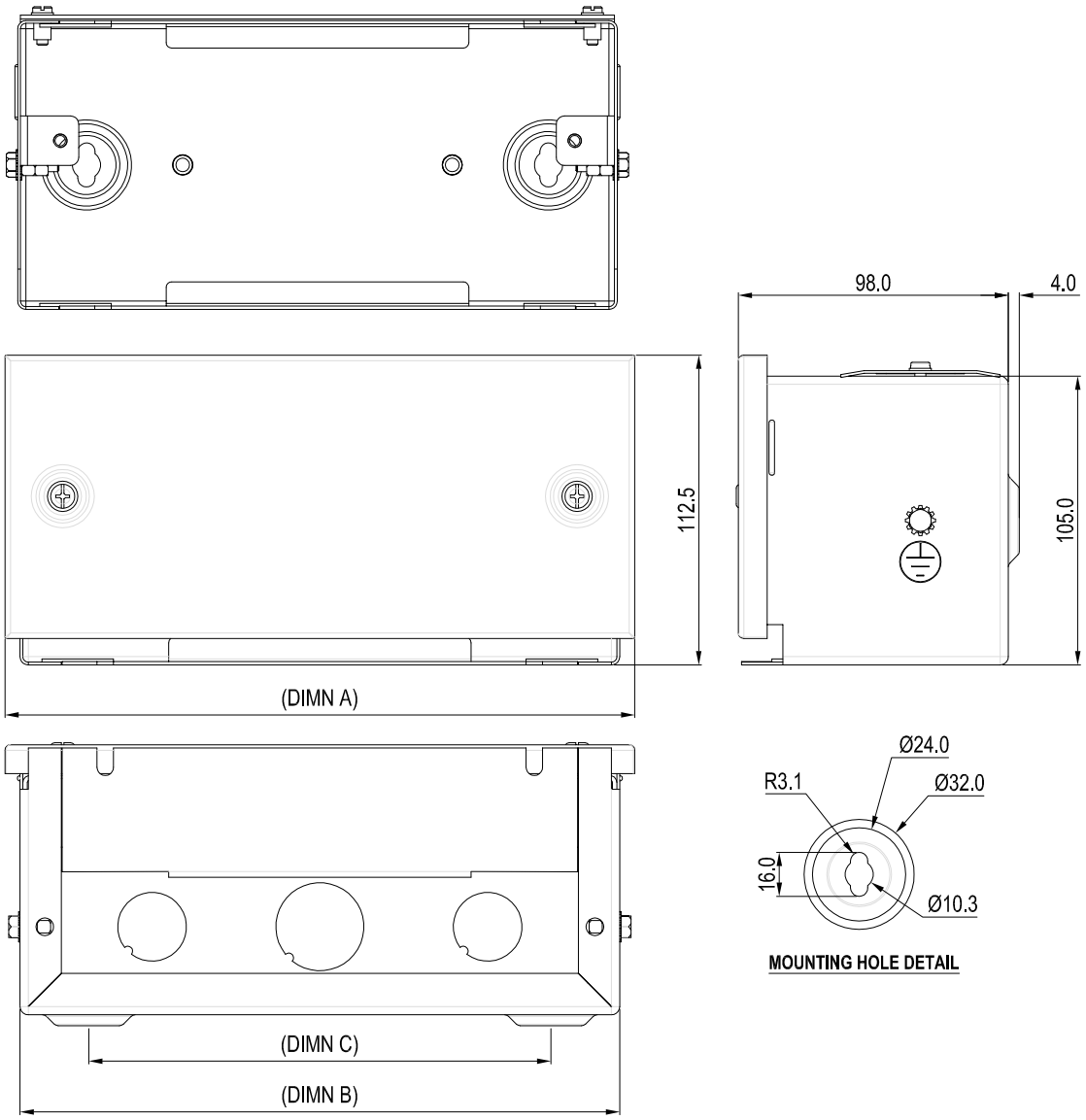
CABLE END BOX FOR TPNH DOUBLE DOOR DISTRIBUTION BOARD



MOUNTING HOLE DETAIL

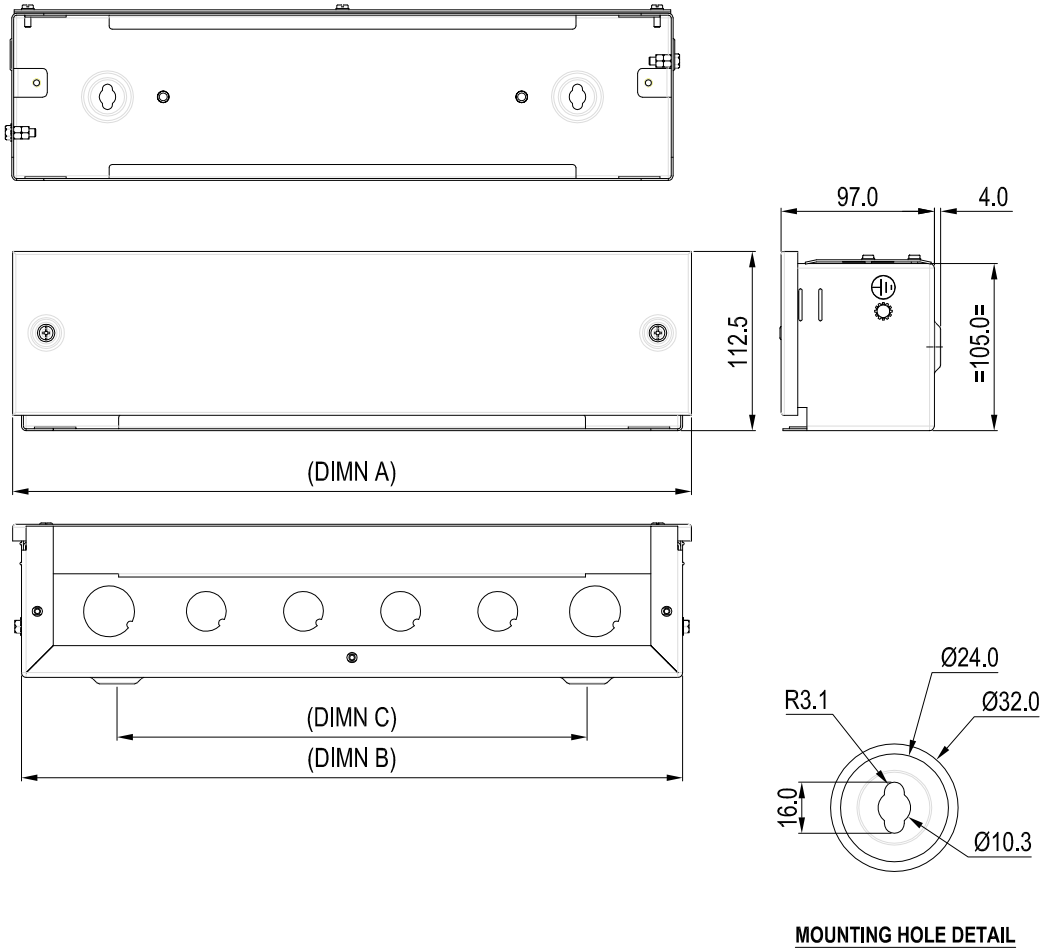
All dimensions are in mm					TOP	
Cat. No.	No.of ways	A	B	C	Ø32 Knockout	Ø25 Knockout
MDBCBTPNHDD04	04	417.0	392.0	295.0	2 Nos.	4 Nos.
MDBCBTPNHDD06	06	417.0	392.0	295.0	2 Nos.	4 Nos.
MDBCBTPNHDD08	08	452.0	427.0	330.0	2 Nos.	5 Nos.
MDBCBTPNHDD12	12	597.0	572.0	380.0	2 Nos.	7 Nos.
MDBCBTPNHDD16	16	742.0	717.0	430.0	2 Nos.	9 Nos.

CABLE END BOX FOR SPN DOUBLE DOOR DISTRIBUTION BOARD



All dimensions are in mm					TOP	
Cat. No.	**No.of ways**	**A**	**B**	**C**	**Ø32 Knockout**	**Ø25 Knockout**
MDBCBSPNDD04	04	229.0	195.0	145.0	1 Nos.	2 Nos.
MDBCBSPNDD08	08	301.0	267.0	217.0	2 Nos.	2 Nos.
MDBCBSPNDD12	12	373.0	339.0	289.0	2 Nos.	4 Nos.
MDBCBSPNDD16	16	445.0	411.0	361.0	2 Nos.	5 Nos.

CABLE END BOX FOR TPNH DOUBLE DOOR DISTRIBUTION BOARD



MOUNTING HOLE DETAIL

All dimensions are in mm					TOP	
Cat. No.	No.of ways	A	B	C	Ø32 Knockout	Ø25 Knockout
MDBCBTPNHDD04	04	417.0	392.0	295.0	2 Nos.	4 Nos.
MDBCBTPNHDD06	06	417.0	392.0	295.0	2 Nos.	4 Nos.
MDBCBTPNHDD08	08	452.0	427.0	330.0	2 Nos.	5 Nos.
MDBCBTPNHDD12	12	597.0	572.0	380.0	2 Nos.	7 Nos.
MDBCBTPNHDD16	16	742.0	717.0	430.0	2 Nos.	9 Nos.

for a greener tomorrow

Safety Warning

To ensure proper use of the products listed in this catalog, please be sure to read the instruction manual prior to use.

Gurgaon Head Office
2nd Floor, Tower A & B, DLF Cyber Greens,
Dlf Cyber City, DLF Phase -III,Gurgaon-122002, India
Phone: +91 (124) 463-0300 +91 (124) 673-9300
Fax: +91 (124) 463-0399 / 398

Bangalore Sales Office
Prestige Emerald, 6th Floor, Municipal No. 2,
Madras Bank Road (Lavelle Road), Bangalore 560001, India
Phone: +91 (80) 4020-1600
Fax:+91 (80) 4020-1699

Pune Sales Office
Emerald House, EL-3, J Block,
M.I.D.C. Bhosari, Pune-411 026, India
Phone: +91 (20) 2710-2000

Mumbai Sales Office
305-306, 3rd Floor, "Windfall", Sahar Plaza Complex,
Next to Kohinoor Hotel, Andheri Kurla Road, J. B. Nagar,
Andheri (E.) Mumbai-400 059, India
Phone: +91 (22) 6611-6200
Fax: +91 (22) 6611-6299

Chennai Sales Office
Citilights Corporate Centre No.1, Vivekananda Road,
Srinivasa Nagar, Chepet, Chennai-600 031, Tamilnadu, India
Phone: +91 (44) 4923-2222
Fax: +91 (44) 4923-2249

Hyderabad Sales Office
4th Floor, Unit No.407, Ashok Bhopal Chamber S.P. Road,
Secunderabad, A.P-500 003, Andhra Pradesh, India
Phone: +91 (40) 4343-8888
Fax: +91 (40) 4343-8899

Ahmedabad Sales Office
303 / A, 3rd Floor, Primate,
Judges Bungalow Cross Road, Bodakdev,
Ahmedabad Gujarat – 380054, India

Coimbatore Sales Office
No 551A, West Lokmanya Street, DB Road,
RS Puram, Coimbatore - 641002, India
Phone: +91 (422) 438-5600

Vadodara Sales Office
A-1/2, 2nd Floor, Status Plaza, Opp Relish Resort Aksar Square,
O.P Road, Vadodara -390020, India
Phone: +91 (265) 231-4699/ 235-8137
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