



switch to smart

Fans • Home Appliances • Lighting • Switchgear

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SMART SOLUTIONS FOR SMARTER PROTECTION

SWITCHGEAR RETAIL CATALOGUE





60 years of smart ideas

For over sixty years, we have strived to delight you with innovative products that set the benchmark against the finest. This commitment has helped us become a household name, not just in India but in over 30 countries around the world. With state-of-the-art manufacturing facilities, we have not only become the largest manufacturer and exporter of fans, but have also carved a niche in lighting and home appliances.

Not one to rest on our laurels, we brought to life our next generation avatar - Orient Electric. An avatar that's more intuitive, efficient and smarter. And today, as we foray into switchgear with EuroTech, we have taken another smart step in the right direction - that of becoming your one-stop-shop for electrical solutions.

Inch closer to all-round protection as you turn the pages ahead.

Presenting EuroTech

EuroTech ranges aim to offer you the right solution at the right price. All our products and solutions offer reliable performance, propose modularity, quality and sophisticated design. The breadth and depth of Orient's product offerings, technical expertise, customer service and global reach clearly differentiate us. Highest quality, cutting-edge products, modularity, ease of installation, ease of use, excellent service and sophisticated design are the features that distinguish Orient. At Orient, we are passionate towards smart electrical solutions. Innovative and European, energy saving technologies. Ease of installation. Ease of use and safety. Intuitive user interface.

Modularity and durability are the core brand values that we aim to deliver through these products.

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RESIDUAL CURRENT CIRCUIT BREAKER

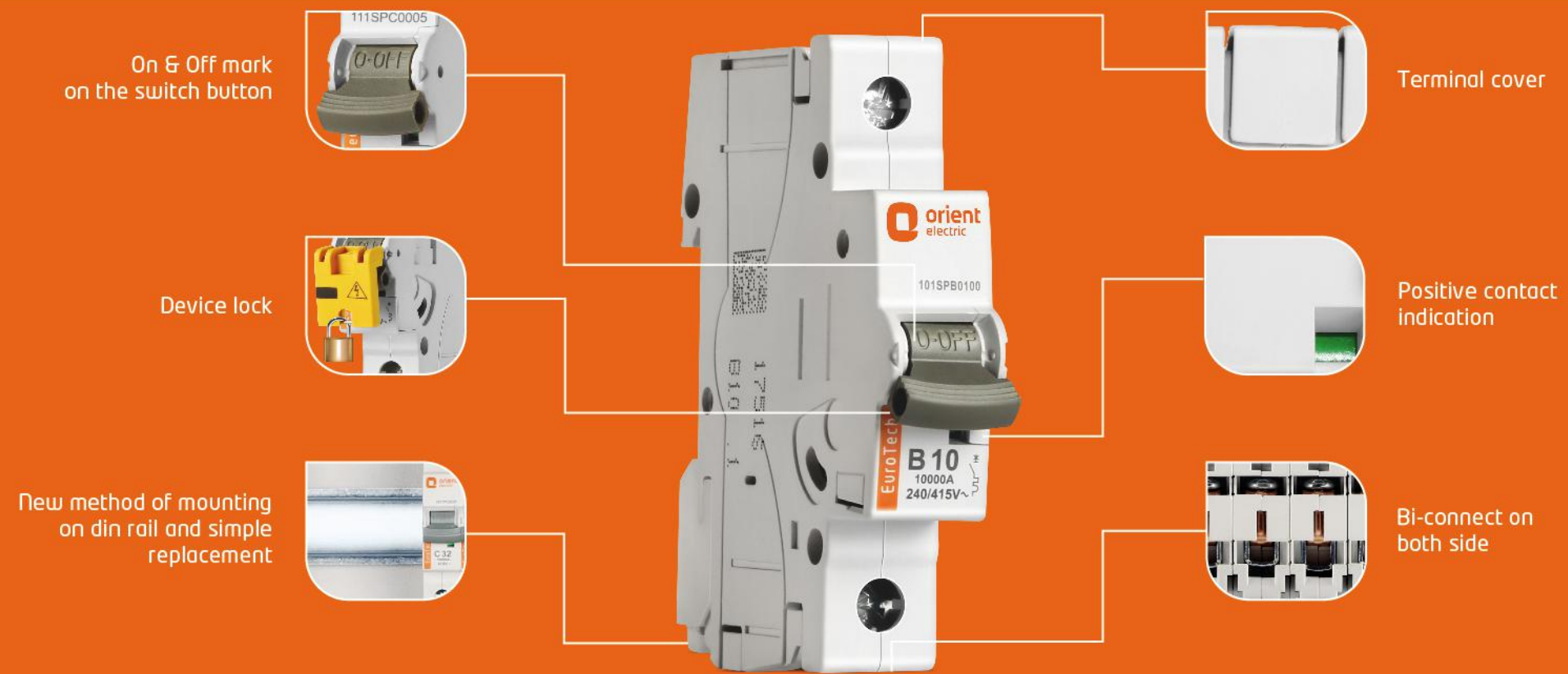
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DISTRIBUTION BOARDS

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MINIATURE CIRCUIT BREAKER



Smart Features & Benefits:

- Positive contact indication for more safety to the user
- Trip-Free Mechanism-MCB trips even if held in ON position
- High short-circuit switching capacity
- Low let-through energy at the point of fault
- Easy and quick method of MCB mounting and replacement on din rail
- Longer electrical life through precisely controlled thermal and magnetic tripping
- Air Circulation design on outer body so that when two poles are placed adjacent to each other, the channels between two poles form a tunnel resulting in very effective air circulation around individual poles
- User-friendly dual-function terminals for connection through busbar and cable
- Portable accessories which can be fitted to range, on site by the user
- Suitable for isolation
- Load and line resistivity
- ROHS compliant

Range

- 6A-63A - 'B' Curve
- 0.5A-63A - 'C' Curve
- 0.5A-32A - 'D' Curve

Accessories

- Auxiliary Switch
- Shunt Trip
- Bell/Buzzer
- Terminal Cover
- Locking Kit

Execution

- Single Pole (1P), Single Pole & Neutral (1P N)
- Double Pole (2P)
- Three Pole (3P), Three Pole & Neutral (3P N)
- Four Pole (4P)

Specification

IS/IEC 60898-1
IEC 60947-2 for Industrial Application

COMPLIANCE & CERTIFICATION:



SMART PROTECTION

A circuit breaker is an automatically-operated electrical switch designed to protect an electrical circuit from damage caused by overload of electricity or short circuit. Its function is to detect a fault condition and by interrupting continuity, to immediately discontinue electrical flow. The overload protection is achieved by the heat generated inside the magnetic coil, which activates the bimetallic disc and separates the contact through trip mechanism. So, in case the overload hits the danger-level, the MCB promptly opens the contacts and cuts off the power supply, hence, protecting your dream household appliances.



Orient Electric brings to you the revolutionary SDB Technology (Snap Disc Bi-metal) for MCBs which is superior to conventional MCBs for the following reasons;

A conventional MCB is prone to manual adjustment of thermal bi-metal strip to manipulate tripping characteristics under overloading conditions. Whereas Orient Electric MCBs with SDB technology come in a single enclosed unit which can not be tampered manually, thus ensuring precise tripping every time.

Conventional MCBs do not detect heat generated by terminals due to loose wire contacts whereas, Orient Electric MCBs with SDB technology detect heat from extreme ambient or loose wire connection and trips at specified limit, thereby safeguarding the circuits connected with it.

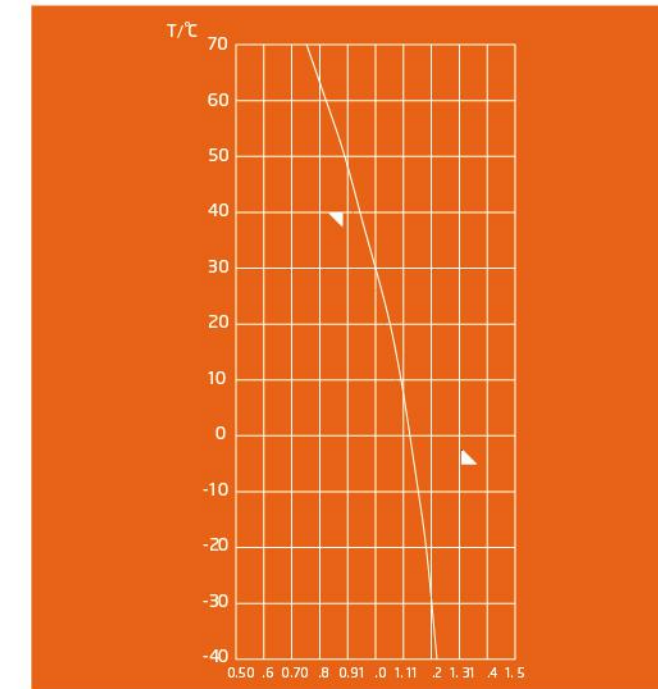
Orient Electric MCBs SDB technology sense the heat of magnetic coil during overload condition and reduces number of weld connections in the MCB; thereby reducing substantial amount of power dissipation, keeping the MCB cool for longer life. Smart technology for your safety!

TECHNICAL SPECIFICATION - MCB

	B Curve	C Curve	D Curve
Rated Current (In)	6-63 A	0.5-63	0.5-32
Rated Voltage (Ue)	240-415 V a.c	240-415 V a.c	240-415 V a.c
Rated Frequency (f)	50 Hz	50 Hz	50 Hz
Shock resistance	40mm free fall	40mm free fall	40mm free fall
Rated short-circuit capacity	10 kA	10 kA	10 kA
Energy limiting class	3	3	3
Back-up fuse	100A gG	100A gG	100A gG
Index of protection	IP 20 (IP 40)	IP 20 (IP 40)	IP 20 (IP 40)
Terminals	1-25mm ² , max. 2Πm	1-25mm ² , max. 2Πm	1-25mm ² , max. 2Πm
Mechanical endurance	20000 op.c.	20000 op.c.	20000 op.c.
Electrical endurance	20000 op.c. (In≤32A) 10000 op.c. (In>32A)	20000 op.c. (In≤32A) 10000 op.c. (In>32A)	20000 op.c. (In>32A)
Impulse withstand voltage (Uimp)	4 kV	4 kV	4 kV
Ambient temperature	max. -25°C ...+55°C	max. -25°C ...+55°C	max. -25°C ...+55°C
Storage temperature	max. -40°C ...+70°C	max. -40°C ...+70°C	max. -40°C ...+70°C
Build-in width	17.8 mm	17.8 mm	17.8 mm
Power supply	Bi directional (Top & bottom)	Bi directional (Top & bottom)	Bi directional (Top & bottom)
Mounting on the rail	IS/IEC 60715	IS/IEC 60715	IS/IEC 60715
Sealing possibility	Yes	Yes	Yes
Terminal cover	Yes	Yes	Yes
Locking device	Yes	Yes	Yes
Standards	IS/IEC 60898-1, EN 60898-1	IS/IEC 60898-1, EN 60898-1	IEC-60947-1
Positive Contact Indication	Yes, Through Flag Indication (Red-ON, Green-OFF)	Yes, Through Flag Indication (Red-ON, Green-OFF)	Yes, Through Flag Indication (Red-ON, Green-OFF)
Installation Position	Vertical/Horizontal	Vertical/Horizontal	Vertical/Horizontal
Case & Cover	Moulded, flame-retardant thermoplastic material	Moulded, flame-retardant thermoplastic material	Moulded, flame-retardant thermoplastic material
Auxiliary Contacts	Yes	Yes	Yes
Shunt Trip	Yes	Yes	Yes
Bell/Buzzer	Yes	Yes	Yes
Locking Kit	Yes	Yes	Yes

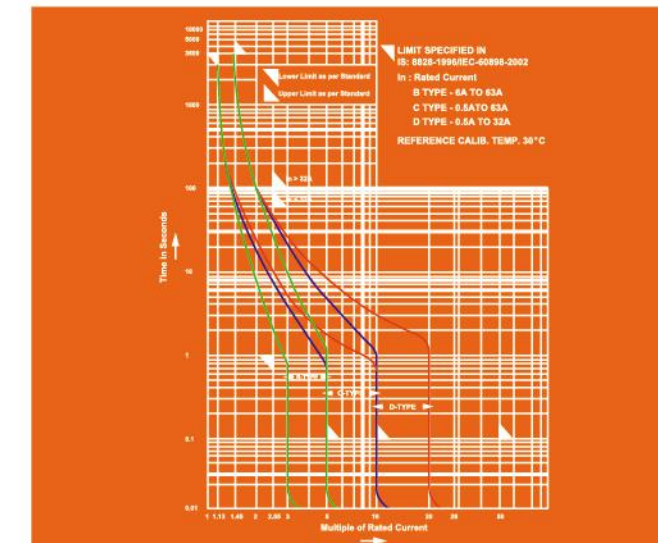
AMBIENT WORKING TEMPERATURE

Effect Of The Ambient Temperature On The Tripping Characteristic												
In(A)	-40°C	-30°C	-20°C	-10°C	-0°C	-10°C	-20°C	-30°C	-40°C	-50°C	-60°C	-70°C
0.5	0.61	0.6	0.59	0.57	0.56	0.54	0.52	0.5	0.47	0.44	0.41	0.38
1	1.22	1.2	1.18	1.15	1.12	1.09	1.05	1	0.94	0.88	0.82	0.75
2	2.44	2.4	2.36	2.30	2.24	2.18	2.1	2	1.88	1.77	1.65	1.5
4	4.88	4.8	4.72	4.61	4.49	4.36	4.20	4	3.77	3.55	3.29	3
6	7.32	7.2	7.09	6.91	6.73	6.54	6.31	6	5.66	5.33	4.94	4.5
10	12.2	12	11.8	11.5	11.2	10.9	10.5	10	9.44	8.99	8.23	7.5
13	15.9	15.6	15.4	14.9	14.5	14.1	13.6	13	12.2	11.5	10.7	9.75
16	19.5	19.2	18.9	18.4	17.9	17.4	16.8	16	15.1	14.2	13.2	12
20	24.4	24	23.6	23	22.4	21.8	21	20	18.8	17.7	16.5	15
25	30.5	30	29.5	28.8	28	27.2	26.3	25	23.6	22.2	20.6	18.8
32	39	38.4	37.8	36.9	35.9	34.9	33.6	32	30.2	28.4	26.3	24
40	48.8	48	47.8	46.1	44.9	43.6	42	40	37.7	35.5	32.9	30
50	61	60	59.1	57.6	56.1	54.5	52.6	50	47.2	44.4	41.2	37.5
63	76.9	75.6	74.4	72.6	70.7	68.7	66.2	63	59.4	56	51.9	47.3



Correction factor is valid for current with times over 30s
 $I(x^{\circ}C)$ - test current at x ambient temperature
 $I(30^{\circ}C)$ - test current at 30°C ambient temperature

TRIPPING CURVES



MCB SELECTION CHART FOR MOTOR PROTECTION

MCB SELECTION CHART FOR MOTOR PROTECTION								
S.No.	Kw	HP	DOL STARTING				Star Delta Starting	Type of MCB
			Single Phase		Three Phase		Three Phase	
			Light Duty	Heavy Duty	Light Duty	Light Duty		
1	0.037	0.05	0.7A	1A	-	-	-	C curve
2	0.075	0.1	1A	2A	-	-	-	C curve
3	0.093	0.125	2A	2A	-	-	-	C curve
4	0.112	0.15	2A	2A	-	-	-	C curve
5	0.149	0.2	2A	4A	-	-	-	C curve
6	0.187	0.25	4A	4A	-	-	-	C curve
7	0.246	0.33	4A	6A	-	-	-	C curve
8	0.373	0.5	4A	6A	1	2	-	D curve
9	0.560	0.75	6A	10A	-	-	-	C curve
10	0.746	1	6A	10A	2	4	-	D curve
11	0.933	1.25	10A	16A	-	-	-	D curve
12	1.119	1.5	10A	16A	-	-	-	C curve
13	1.492	2	16A	20A	4	6	-	C curve
14	2.238	3	16A	25A	6	10	-	C curve
15	2.984	4	25A	32A	-	-	-	C curve
16	3.730	5	32A	40A	10	16	16	C curve
17	4.476	6	40A	50A	-	-	16	D curve
18	5.595	7.5	40A	63A	20	32	25	C curve
19	7.46	10	50A	63A	16	20	20	C curve
20	9.325	12.5	63A	-	25	40	32	C curve
21	11.190	15	63A	-	32	50	40	C curve
22	14.92	20	0	0	40	63	50	C curve
23	18.65	25	-	-	-	-	63	D curve

Calculation Formulae:

Incomer Current Rating, For Single Phase:

$\frac{\text{Total Load in Watts}}{240}$

240

Incomer Current Rating, For Three Phase:

"C" series MCB is used for all Motor Applications

$\frac{\text{Total Load in Watts}}{\sqrt{3} \times 240}$

$\sqrt{3} \times 240$

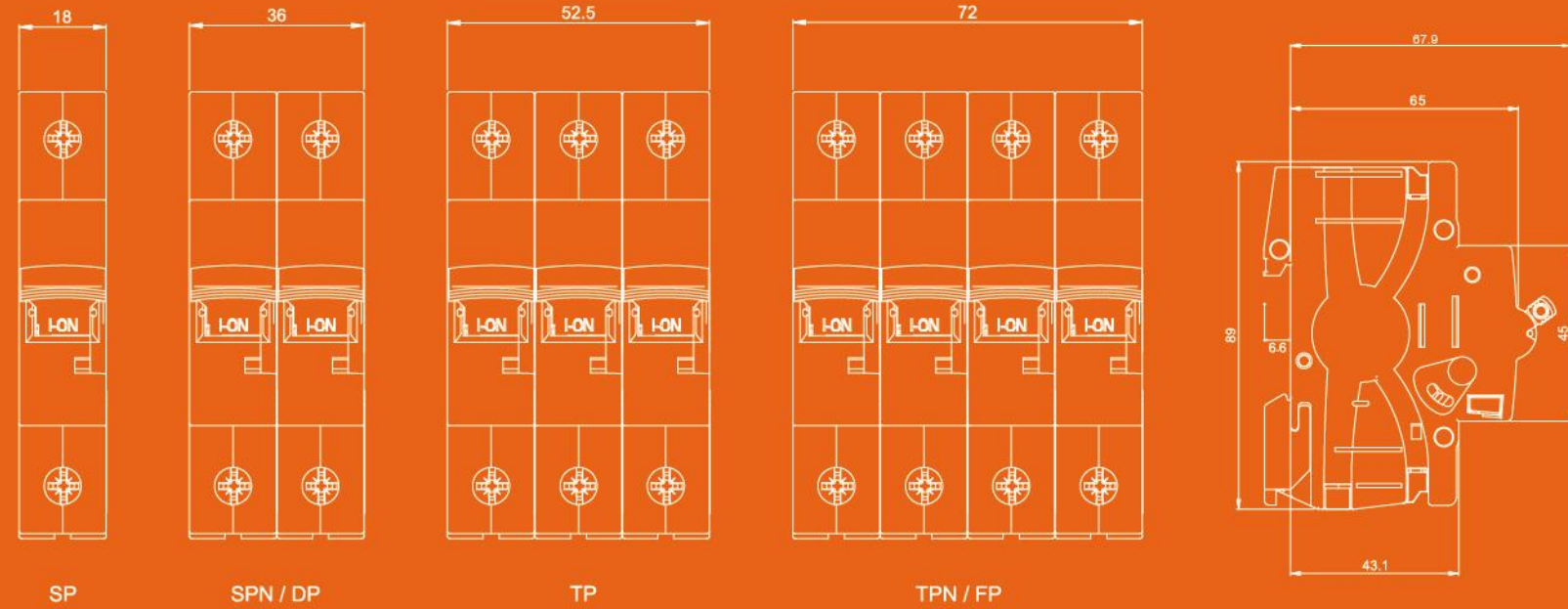
Note: One Lighting circuit can have up to 800W or up to 10 Lighting points One power circuit can have up to 2000 W or 1 power points.

MCB SELECTION CHART FOR HOUSEHOLD APPLICATIONS

FOR HOUSEHOLD APPLICATIONS			
Appliances	Capacity wait (Load)	Current Rating of MCB	Type of MCB
Air Conditioner	1 Ton	10A	C Curve
	1.5 Ton	16A	C Curve
	2 Ton	20A	C Curve
Refrigerator	285 Ltr.	2A	C Curve
	581 Ltr.	6A	C Curve
Washing Machine	1800 W	2A	C Curve
	2200 W	10A	C Curve
Domestic Pump set	0.5 H.P.	16A	C Curve
	1 H. P.	6A	C Curve
	2 H.P.	10A	C Curve
Water Heater (Storage of Instontaneous Geysers)	1 KW	6A	B Curve
	2 KW	6A	B Curve
	3 KW	10A	B Curve
Cooking range	6 KW	32A	B Curve
Oven Cum griller	4500 Watts	25A	B Curve
Oven only	1750 Watts	10A	B Curve
Hot Plate only	750 Watts	6A	B Curve
Micowave Oven	2000 Watts	10A	B Curve
Electric Kettl	1000 Watts	6A	B Curve
Room Heater	1500 Watts	10A	B Curve
	1000 Watts	6A	B Curve
Iron	2000 Watts	10A	B Curve

*Above mentioned data may vary from product manufacturers, check product details before installation.

DIMENSIONS (MM)



Characteristics	Test current	Tripping time	Result
B, C, D	$1,13 I_n$	$t \geq 3600s$	No tripping
B, C, D	$1,45 I_n$	$t < 3600s$	Tripping
B, C, D	$2,55 I_n$	$1s < t < 60s$ (for $\leq I_n 32A$) $1s < t < 120s$ (for $\geq I_n 32A$)	Tripping
B	$3 I_n$	$t \leq 0.1s$	No tripping
C	$5 I_n$	$t \leq 0.1s$	No tripping
D	$10 I_n$	$t \leq 0.1s$	No tripping
B	$5 I_n$	$t < 0.1s$	Tripping
C	$10 I_n$	$t < 0.1s$	Tripping
D	$20 I_n$	$t < 0.1s$	Tripping

APPLICATIONS OF MCB

Depending upon whether the equipment is resistive or inductive in nature, its protection is categorized under **B**, **C** or **D**.

- **B-Series:** For protection of appliances and equipment that are resistive in nature.
E.g.: Geyser, lights, room heaters and microwave oven.
- **C-Series:** For protection of appliances and equipment that are inductive in nature.
E.g.: ACs, washing machines, compressor etc.
- **D-Series:** For protection of equipment that are highly inductive in nature.
E.g.: Transformers

TECHNICAL SPECIFICATIONS DC MCB

Rated voltage - for 1 pole U_n -for 2 pole U_n	220 VD.C 220 440 VD.C.
Rated time constant LR	5 ms
Rated current I_n	0.5 - 63A
Rated short circuit capacity	10kA
Tripping characteristic	C
Back up Fuse	100 A gG
Terminals	1-25mm 2 - max 3nm
Standards	IS IEC60947-2

CONNECTING DIAGRAMS IN DC CIRCUITS

Connecting diagrams in direct current electric circuits				
Rated voltage of circuit breaker	220 V _{DC}	220/440 V _{DC}	220/440 V _{DC}	220/440 V _{DC}
Voltage between conductors - max.	220 V _{DC}	440 V _{DC}	440 V _{DC}	440 V _{DC}
Voltage between conductor and earth - max.	220 V _{DC}	220 V _{DC}	440 V _{DC}	220 V _{DC}
Circuit breaker	1-pole	2-pole	2-pole	2-pole
Connecting diagram				

DC MCB



Miniature Circuit Breakers for DC are used for protection of conductors in DC electric circuits.

- **1-pole** circuit breakers are used for voltages of up to 220 V D.C
- **2-pole** circuit breakers with poles connected in a series are used for higher voltages up to 440 V D.C

While connecting the MCB for DC, attention must be paid to polarity because when connected in a wrong way, the MCB can be destroyed. Note that in a 2-pole circuit, 1-pole MCBs cannot be used and vice-versa.

ACCESSORIES FOR MCB



Auxiliary Signal Switch

Auxiliary Signal Switches are provided for remote signaling of the MCB. The width of auxiliary switch is 0.5 module (9mm). During fitting, the MCB must be switched off.

Technical Specifications	
Rated voltage (Uc)	240V a.c., 110V d.c.
Rated current (In)	6A a.c., 1A d.c.
Rated frequency	a.c. / d.c.
Index of protection	IP 20 (IP 40)
Terminals	max. 1.5mm ² , max 0.8Nm
Ambient temperature	max. 35°C
Storage temperature	max. -40°C to +70°C
Contacts	1x NC, 1x NC/NO
Standards	IS/IEC 60947-1



Auxiliary Signal Switch Terminal Cover

Allows to cover connection terminals, screws of circuit. It gives protection from electric shocks and provides better protection.



Shunt Trip

For remote opening of the MCB, fix the Shunt Trip to the right side of the circuit breaker. With dimensions that correspond with those of the MCB, this Shunt Trip goes the extra mile in ensuring your personal safety.

Technical Specifications	
Rated voltage	912/48 a.c./d.c., 110/240 a.c./d.c
Rated frequency	50/60Hz, d.c.
Index of protection	IP 20 (IP 40)
Terminals	1-25mm ² , max. 2Nm
Ambient temperature	max. 35°C
Storage temperature	max. -40°C to +70°C
Mounting on the rail	IS/IEC 60947-3
Sealing possibility	Yes
Terminal cover	Yes



Bell/Buzzer

Bell/Buzzer is used for signalling in-house command panels, etc.



Locking Kit

MCB can be pad locked in OFF position for personal safety during maintenance and in ON position for extremely critical loads with the help of locking kit.

ORDERING INFORMATION FOR MCB



SP

- Rated short circuit capacity **10 kA**
- Rated Current **0.5 to 63 A**
- Tripping characteristic **B, C, D**

1 Pole		Cat. No. SP		
Rating (A)	Voltage (V)	B curve	C curve	D curve
0.5	240/415	-	101SPC0005	101SPD0005
1	240/415	-	101SPC0010	101SPD0010
2	240/415	-	101SPC0020	101SPD0020
4	240/415	-	101SPC0040	101SPD0040
6	240/415	101SPB0060	101SPC0060	101SPD0060
10	240/415	101SPB0100	101SPC0100	101SPD0100
13	240/415	101SPB0130	101SPC0130	101SPD0130
16	240/415	101SPB0160	101SPC0160	101SPD0160
20	240/415	101SPB0200	101SPC0200	101SPD0200
25	240/415	101SPB0250	101SPC0250	101SPD0250
32	240/415	101SPB0320	101SPC0320	101SPD0320
40	240/415	101SPB0400	101SPC0400	-
50	240/415	101SPB0500	101SPC0500	-
63	240/415	101SPB0630	101SPC0630	-



SPN

- Rated short circuit capacity **10 kA**
- Rated Current **0.5 to 63 A**
- Tripping characteristic **B, C, D**

Cat. No. SPN		
B curve	C curve	D curve
-	101SNC0005	101SND0005
-	101SNC0010	101SND0010
-	101SNC0020	101SND0020
-	101SNC0040	101SND0040
101SNB0060	101SNC0060	101SND0060
101SNB0100	101SNC0100	101SND0100
101SNB0130	101SNC0130	101SND0130
101SNB0160	101SNC0160	101SND0160
101SNB0200	101SNC0200	101SND0200
101SNB0250	101SNC0250	101SND0250
101SNB0320	101SNC0320	101SND0320
101SNB0400	101SNC0400	-
101SNB0500	101SNC0500	-
101SNB0630	101SNC0630	-



DP

- Rated short circuit capacity **10 kA**
- Rated Current **0.5 to 63 A**
- Tripping characteristic **B, C, D**

Cat. No. DP		
B curve	C curve	D curve
-	101DPC0005	101DPD0005
-	101DPC0010	101DPD0010
-	101DPC0020	101DPD0020
-	101DPC0040	101DPD0040
101DPB0060	101DPC0060	101DPD0060
101DPB0100	101DPC0100	101DPD0100
101DPB0130	101DPC0130	101DPD0130
101DPB0160	101DPC0160	101DPD0160
101DPB0200	101DPC0200	101DPD0200
101DPB0250	101DPC0250	101DPD0250
101DPB0320	101DPC0320	101DPD0320
101DPB0400	101DPC0400	-
101DPB0500	101DPC0500	-
101DPB0630	101DPC0630	-

ORDERING INFORMATION FOR MCB



TP



TPN

- Rated short-circuit capacity **10 kA**
- Rated Current **0.5 to 63 A**
- Tripping characteristic **B, C, D**



FP



SP DC

- Rated short-circuit capacity **10 kA**
- Rated Current **0.5 to 63 A**
- Tripping characteristic **C**



DP DC

3 Pole		Cat. No. TP			Cat. No. TPN			Cat. No. FP		
Rating (A)	Voltage (V)	B curve	C curve	D curve	B curve	C curve	D curve	B curve	C curve	D curve
0.5	415	-	101TPC0005	101TPD0005	-	101TPC0005	101TPD0005	-	101FPC0005	101FPD0005
1	415	-	101TPC0010	101TPD0010	-	101TPC0010	101TPD0010	-	101FPC0010	101FPD0010
2	415	-	101TPC0020	101TPD0020	-	101TPC0020	101TPD0020	-	101FPC0020	101FPD0020
4	415	-	101TPC0040	101TPD0040	-	101TPC0040	101TPD0040	-	101FPC0040	101FPD0040
6	415	101TPB0060	101TPC0060	101TPD0060	101TPB0060	101TPC0060	101TPD0060	101FPB0060	101FPC0060	101FPD0060
10	415	101TPB0100	101TPC0100	101TPD0100	101TPB0100	101TPC0100	101TPD0100	101FPB0100	101FPC0100	101FPD0100
13	415	101TPB0130	101TPC0130	101TPD0130	101TPB0130	101TPC0130	101TPD0130	101FPB0130	101FPC0130	101FPD0130
16	415	101TPB0160	101TPC0160	101TPD0160	101TPB0160	101TPC0160	101TPD0160	101FPB0160	101FPC0160	101FPD0160
20	415	101TPB0200	101TPC0200	101TPD0200	101TPB0200	101TPC0200	101TPD0200	101FPB0200	101FPC0200	101FPD0200
25	415	101TPB0250	101TPC0250	101TPD0250	101TPB0250	101TPC0250	101TPD0250	101FPB0250	101FPC0250	101FPD0250
32	415	101TPB0320	101TPC0320	101TPD0320	101TPB0320	101TPC0320	101TPD0320	101FPB0320	101FPC0320	101FPD0320
40	415	101TPB0400	101TPC0400	-	101TPB0400	101TPC0400	-	101FPB0400	101FPC0400	-
50	415	101TPB0500	101TPC0500	-	101TPB0500	101TPC0500	-	101FPB0500	101FPC0500	-
63	415	101TPB0630	101TPC0630	-	101TPB0630	101TPC0630	-	101FPB0630	101FPC0630	-

SP - DC MCB

Conforming to IS/IEC 60947-2, Rated Current 0.5 to 63A, 220V d.c.
Breaking Capacity 10kA,

Rating (A)	Voltage	Cat. No.
0.5A	220 V d.c.	111SPC0005
1A	220 V d.c.	111SPC0010
2A	220 V d.c.	111SPC0020
4A	220 V d.c.	111SPC0040
6A	220 V d.c.	111SPC0060
10A	220 V d.c.	111SPC0100
13A	220 V d.c.	111SPC0130
16A	220 V d.c.	111SPC0160
20A	220 V d.c.	111SPC0200
25A	220 V d.c.	111SPC0250
32A	220 V d.c.	111SPC0320
40A	220 V d.c.	111SPC0400
50A	220 V d.c.	111SPC0500
63A	220 V d.c.	111SPC0630

DP - DC MCB

Conforming to IS/IEC 60947-2, Rated Current 0.5 to 63A, 220/440V d.c.,
Breaking Capacity 10kA.

Rating (A)	Voltage	Cat. No.
0.5A	220/440 V d.c.	111DPC0005
1A	220/440 V d.c.	111DPC0010
2A	220/440 V d.c.	111DPC0020
4A	220/440 V d.c.	111DPC0040
6A	220/440 V d.c.	111DPC0060
10A	220/440 V d.c.	111DPC0100
13A	220/440 V d.c.	111DPC0130
16A	220/440 V d.c.	111DPC0160
20A	220/440 V d.c.	111DPC0200
25A	220/440 V d.c.	111DPC0250
32A	220/440 V d.c.	111DPC0320
40A	220/440 V d.c.	111DPC0400
50A	220/440 V d.c.	111DPC0500
63A	220/440 V d.c.	111DPC0630

ISOLATOR

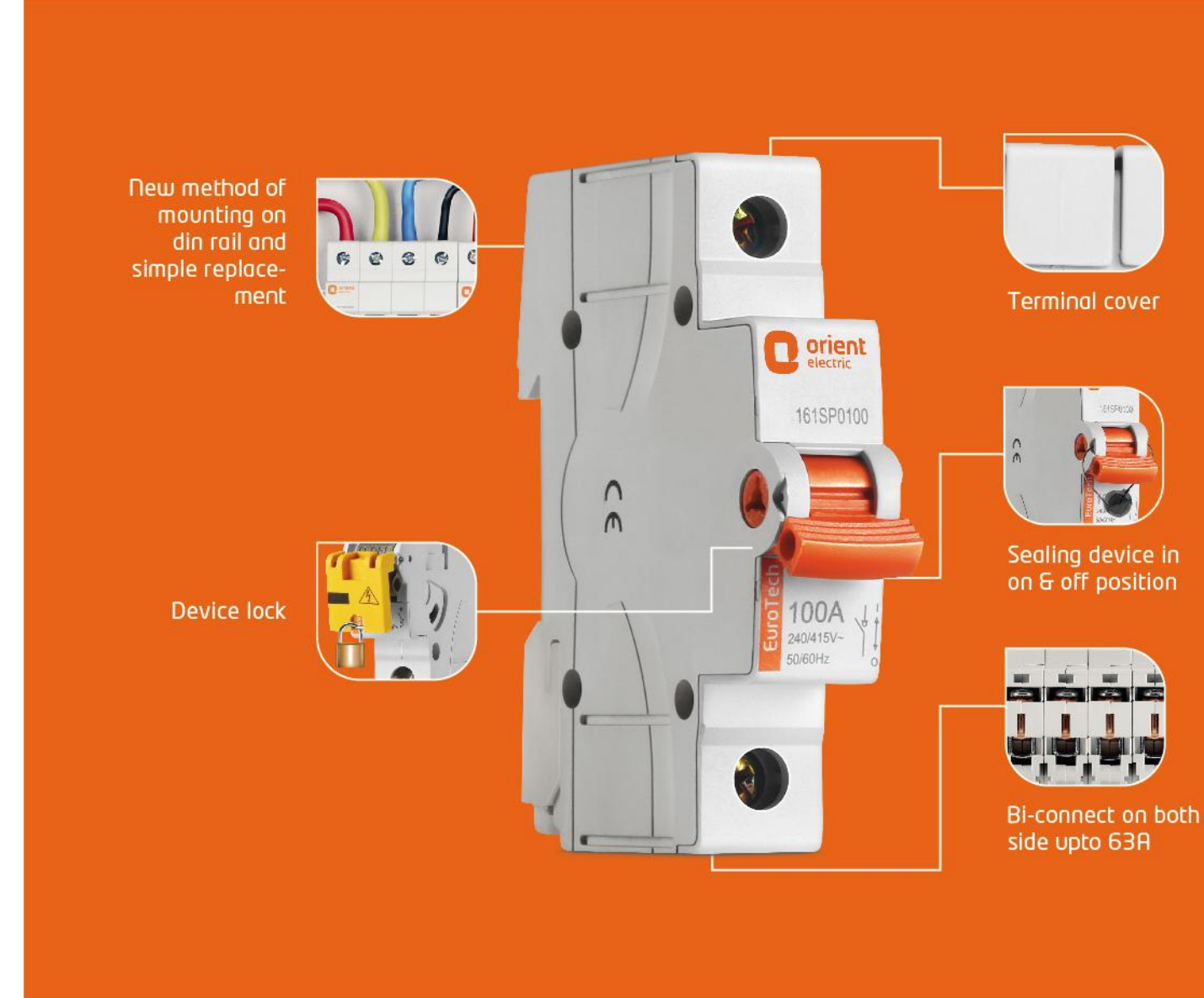


PRODUCT OVERVIEW



Isolators are switch disconnectors with independent manual operation, capable of making, carrying and breaking currents under normal circuit conditions, which may include operating under overload condition and also carry currents under specified abnormal circuit conditions such as those of short circuit for a specified time.

ISOLATOR



Smart Features & Benefits

- Forced opening and suitable for use as main switch
- High short-circuit withstanding capacity
- Optimal protection against unintentional touch of live parts
- Dual-function terminals
- Quick mounting clip, lockable in open position
- Same form and design as MCB Range
- The switch-isolators are equipped with dual-function terminals which enable simultaneous connection of conductors and bus bar
- Cross-/ slotted-head screws size 2, system Pozidrive, enable easy, reliable and time-saving wiring
- Facility for sealing or padlocking in closed or isolated position
- Internal connection of switching mechanisms ensures simultaneous switching even without toggle linkage

Range :

40A - 63A & 80A - 125A

Execution

Single Pole (1P), Double Pole (2P)

Three Pole (3P) & Four Pole (4P)

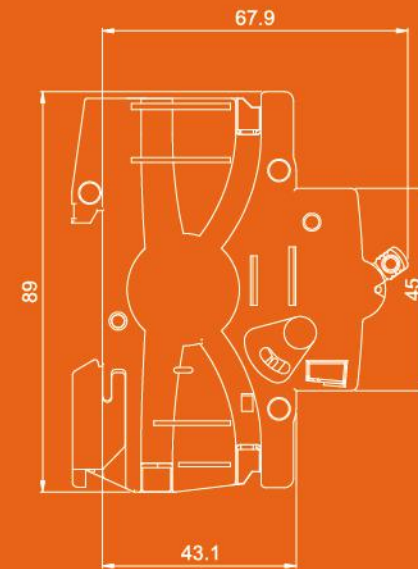
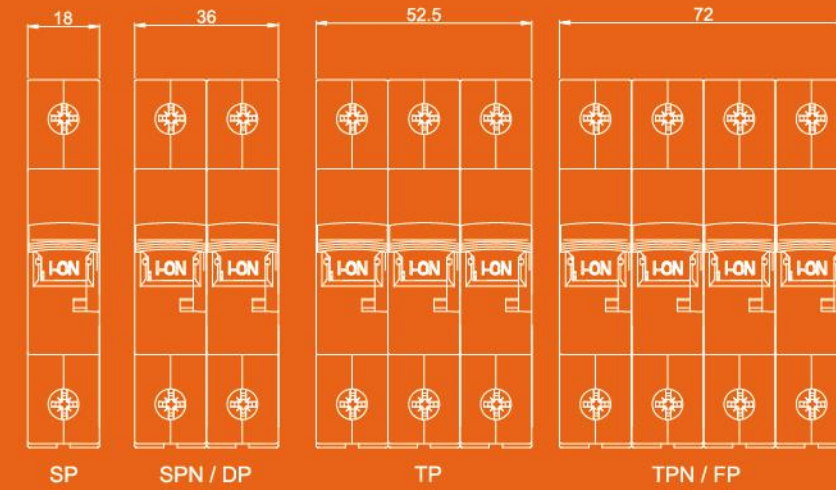
Specification

IS/IEC60947-3

TECHNICAL SPECIFICATIONS

Details	
Rated Current (In)	40 - 63 A, 80, 100 & 125A
Rated Voltage (Ue)	240/415 V
Rated Frequency (f)	50 Hz
Short-circuit capacity (Icm)	630 A up to 63A, 1.25kA up to 125A
Tightening Torque	2.0 Nm. (as per IS/IEC 60947-1)
Dielectric strength	2000 V
Index of protection	IP 20 (IP 40)
Terminals	1-25mm ² , max. 2Nm up to 63A, 50mm ² for 125
Mechanical endurance	> 10,000 Operations
Electrical endurance	> 5,000 Operations
Ambient temperature	max. -25°C ... +55°C
Storage temperature	max. -40°C ... +70°C
Build-in width	18 mm/pol
Mounting on the rail	IS/IEC 60715
Sealing possibility	Yes
Terminal cover	Yes
Locking device	Yes
Pole count	1 to 4 Pole
Standards	IS/IEC 60947-3

DIMENSION (MM)



ORDERING INFORMATION



Single Pole



Double Pole



Triple Pole



Four Pole

1 Pole		
Rating (A)	Voltage (V)	Catalogue No.
40	240/415	161SP0040
63	240/415	161SP0063
80	240/415	161SP0080
100	240/415	161SP0100
125	240/415	161SP0125

2 Pole		
Rating (A)	Voltage (V)	Catalogue No.
40	240/415	161DP0040
63	240/415	161DP0063
80	240/415	161DP0080
100	240/415	161DP0100
125	240/415	161DP0125

3 Pole		
Rating (A)	Voltage (V)	Catalogue No.
40	240/415	161TP0040
63	240/415	161TP0063
80	240/415	161TP0080
100	240/415	161TP0100
125	240/415	161TP0125

4 Pole		
Rating (A)	Voltage (V)	Catalogue No.
40	240/415	161FP0040
63	240/415	161FP0063
80	240/415	161FP0080
100	240/415	161FP0100
125	240/415	161FP0125

RESIDUAL CURRENT CIRCUIT BREAKER



PRODUCT OVERVIEW



Day after day we come across many mishaps hampering human lives due to negligent usage of electricity. Even a large number of industrial and domestic fires are attributed to and caused by electricity. Faulty insulated equipments or wrong usage of electrical devices cause current to flow through insulation to the earth. This is leakage current. This current poses two severe risk factors which are:

Fire Risk

Electrocution Risk

Residual Current Circuit Breaker provides the function of isolation switching and earth leakage protection of electrical circuits. It also provides the indirect protection of the operator's body against the dangerous effects of electric current.

It is also a protective device against fire caused by the electrical circuit fault.

RESIDUAL CURRENT CIRCUIT BREAKER

COMPLIANCE & CERTIFICATION:



New method of mounting on din rail and simple replacement



Test button for device testing



Bi-connect on both side



Terminal cover



Sealing device in On & Off position



Positive contact indication



Smart Features & Benefits

- Provide protection against earth fault/leakage current and also fulfill the functional isolation
- Automatically measures and disconnects the circuit when earth fault/leakage current occurs and exceeds the rated sensitivity
- High short-circuit current withstand capacity - 10kA
- Dual termination possible for cable and comb type busbar connection
- Equipped with finger protected disconnection terminals (IP20)
- Fire resistant plastic parts to withstand abnormal heating and strong impact
- Independent of line voltage. Also free from external voltage fluctuation
- Incorporates and filtering device for prevention of nuisance tripping due to transient voltage.

Range: 25A, 40A, 63A

Sensitivities: 30mA, 100mA, 300mA

Execution: Double Pole (2P), Four Pole (4P)

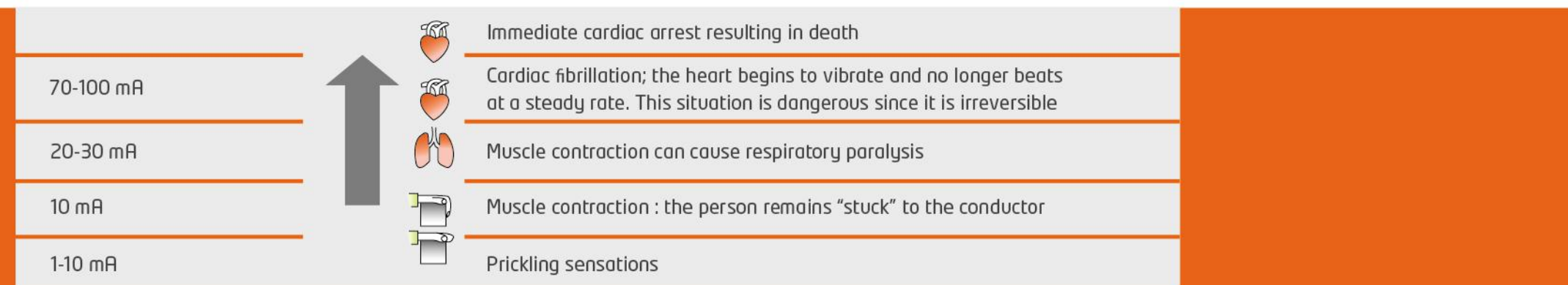
Specification: IS12640 Part 1/IEC61008-1

PROTECTION AGAINST ELECTROCUTION

The use of exposed, substandard, badly wired, wrongly connected or damaged equipment as well as frayed or badly repaired cables reduces the safety of an installation and increases the risk of person receiving an electric shock. Electrocution is a passage of current through human body, which is dangerous. The flow of current through human body effects vital functions such as:

1. Breathing 2. Heartbeat

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



However, electrical shock should not be viewed in terms of "current" alone, but in terms of "contact voltage". A person gets electrocuted by coming in contact with an object that has a different potential from his/her own. The difference in potential causes the current to flow through the body

AGAINST INDIRECT CONTACT

Over-current protection devices like MCB are unable to act promptly on small earth leakage currents. To comply with wiring regulations, the earth fault loop impedance in Ohms, multiplied by the rated tripping current of the RCD in amperes must not exceed 50.

PROTECTION IN THE EVENT OF DIRECT CONTACT

To provide extra protection in the event of direct contact with an (unearthed) live part, extremely sensitive RCCBs with a rated residual operating current of 30 mA ($I_{\Delta n}=30$ mA) are used instead of more conventional RCCBs with higher residual operating fault currents.

This extra protection is necessary in the following cases;

- The insulation of totally insulated devices or their load is damaged
- The earth wire is interrupted
- The earth wire and live wire have been accidentally transposed
- A component which is live in normal operation is touched during repair work
- In case of a socket outlet power circuit in rooms with a bath or shower
- For caravans, boats and yachts and the power supply on camping or berthing sites
- For electrical appliances used in medical facilities

The drawn-in-switch-off characteristics of residual current devices with a rated fault current of 10 and 30 mA is proof that these are able to prevent the occurrence of dangerous heart chamber fibrillation. For this reason, residual current circuit breaker with rated fault current of 10 mA are used for protection of particularly exposed individually equipment.

Residual current circuit breaker with 30 mA rated fault current are already specified for many areas (bath, rooms with medical facilities, outside areas, agricultural land etc.)

WORKING PRINCIPLE

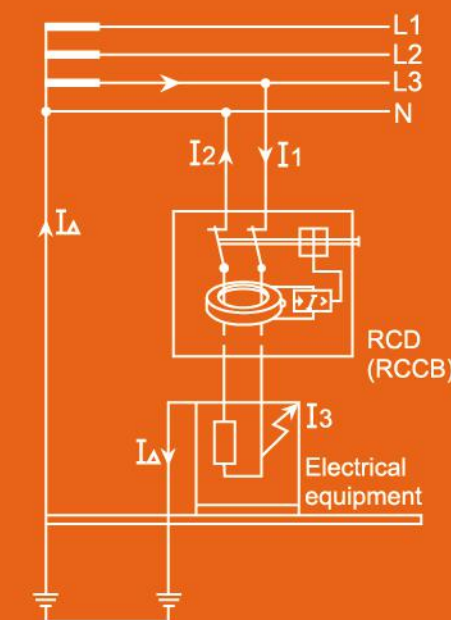
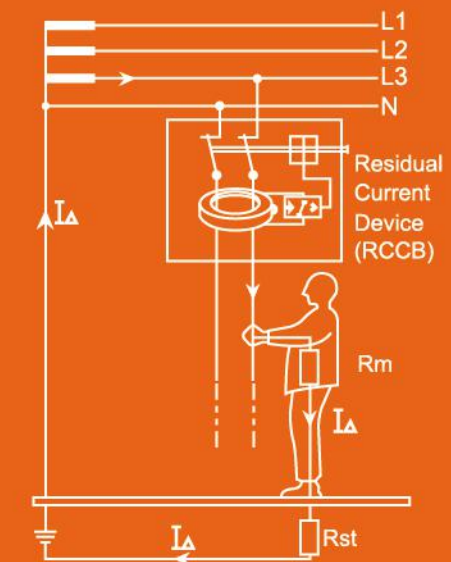
The RCCB function is based on Kirchhoff's current law explained below:

- If the vector sum of incoming current is equal to the vector sum of outgoing current, the RCCB will not trip
- If the vector sum of incoming current is not equal to the vector sum of outgoing current, it indicates a leakage and the RCCB will trip

Due to magnetic imbalance in the transformer of the RCCB, the residual magnetism induces a current in the secondary winding coiled around the transformer core which acts on the trip relay. When reaching the trip value (dependent on the rated fault current), this current causes the armature of the magnetic trip to drop out.

The trip operates the lock which open the contacts by way of the energy stored within.

Consequently all poles of the system are separated from the mains system.

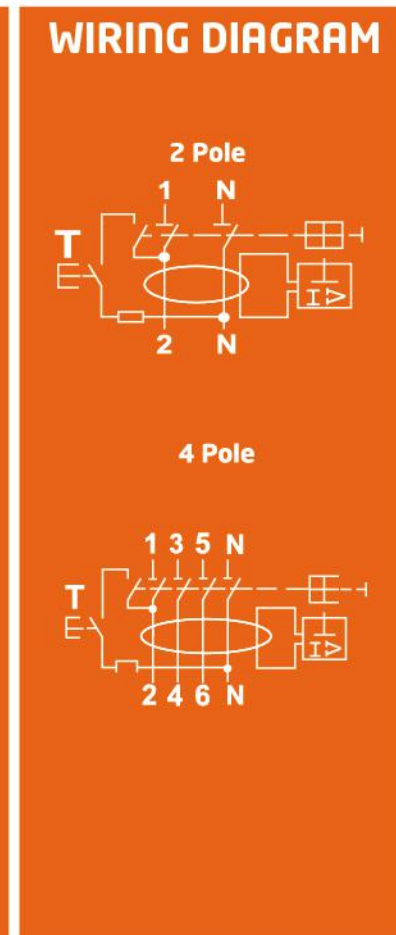
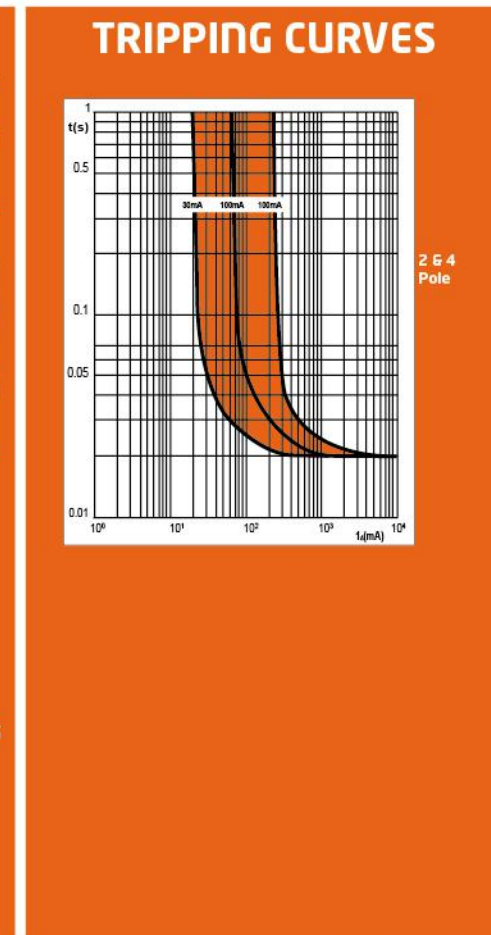
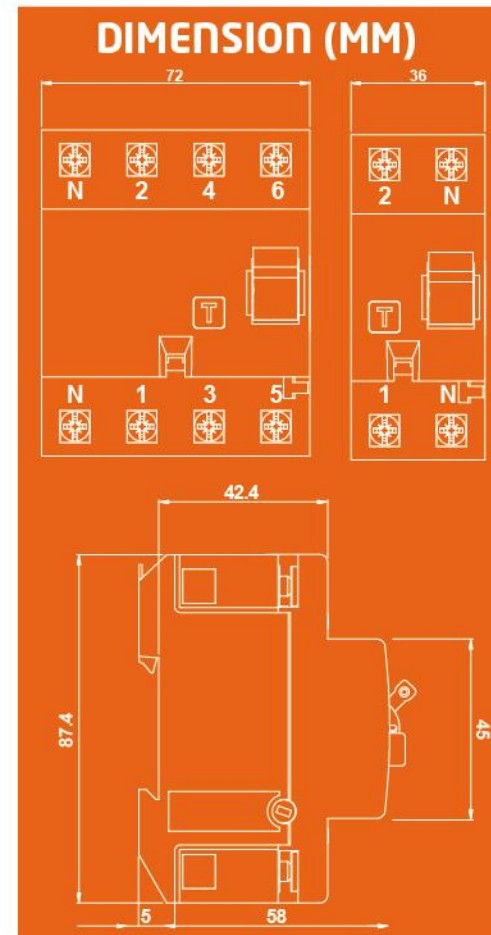


SENSITIVITY SELECTION CHART - RCCB

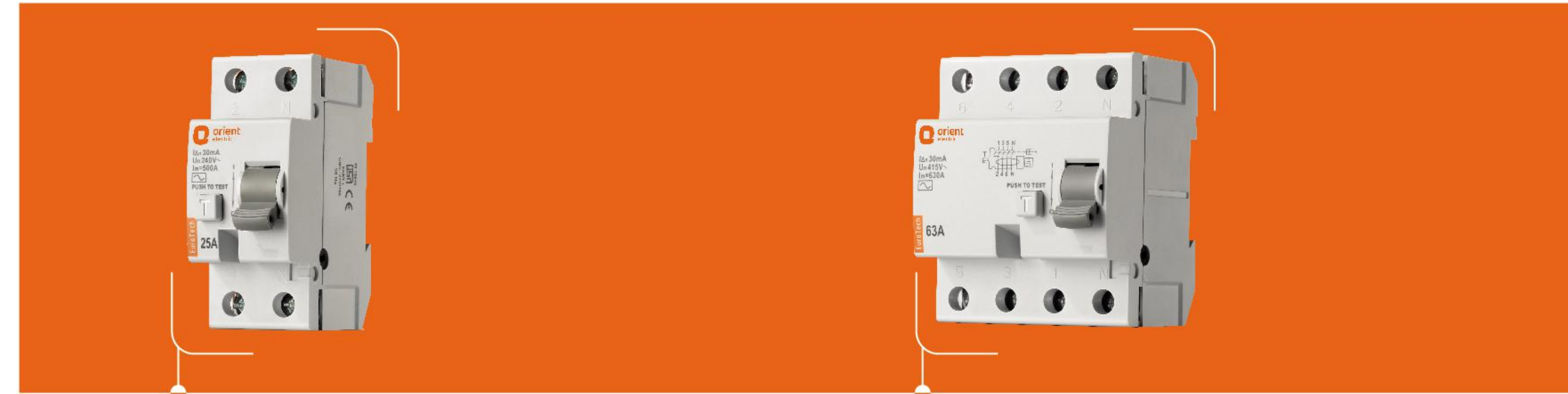
Sensitivity	Applications
30mA	Tripping current designed for additional protection against direct contact or where specially required by the Indian wiring regulations. e.g.- sockets outside the equipotential zone TT systems, supply to caravan installation etc., the 30mA RCCB protects against leakage currents & indirect contact with earth loop impedance upto 1667 ohms; for use as additional protection against direct contact, residual tripping current must not exceed 30mA.
100mA	Tripping current is suitable for protection against indirect contact & leakage currents for larger installations; the 100mA RCCB operate within 30ms, but don't provide the same level of personal protection as the 30mA units; the 100mA RCCB protects against leakage currents and indirect contact with earth loop impedance upto 500 Ohms.
300mA	Less sensitive protection suitable for large installations having high level of leakage currents; 300mA RCCB protects against leakage current and indirect contact upto 1670 Ohms earth loop impedance.

TECHNICAL SPECIFICATIONS - RCCB

Details	
Rated voltage U_n	240V-DP
Rated current I_n	415V -FP
Rated residual current I	0.03, 0.1, 0.3 A
Conditional short-circuit current	10 kA
Rated making and breaking capacity I	500A upto 40A RCCB 630A for 63A RCCB
Tripping Time	0.2 Seconds
Back-up fuse	63/100 A gG
Degree of protection	IP 20 (IP40)
Dielectric strength	2000 V, 50Hz
Cross-section of connecting lead	1 - 25 mm ²
No. of Poles	2 Pole, 4 Pole
Rated Insulation Voltage (Ui)	500 V
Rated Impulse Voltage (Uimp)	4 kV
Operating Temperature	Min. = -25°C. Max. = +70°C
Vibration	3g, 50Hz
Positive Contact Indicator	Yes ((Red-"ON", Green-"OFF"))
Shock Resistance	40mm free fall
Auxiliary Contacts	On request
Shunt Trip	On request
Mounting	On Din rail IS/IEC 60715
Installation Position	Vertical / Horizontal
Standards	IS 12640-1&IEC/EN61008-1



ORDERING INFORMATION



Rated short circuit capacity **10 kA**
 Rated Current **25 to 63 A**
 Sensitivity **30mA, 100mA, 300mA**

AC Type		
Rating (A)	Sensitivity (mA)	2 Pole (240V)
		Cat. No.
25	30	201DA03025
	100	201DA10025
	300	201DA30025
40	30	201DA03040
	100	201DA10040
	300	201DA30040
63	30	201DA03063
	100	201DA10063
	300	201DA30063

AC Type		
Rating (A)	Sensitivity (mA)	4 Pole (415 V)
		Cat. No.
25	30	201FA03025
	100	201FA10025
	300	201FA30025
40	30	201FA03040
	100	201FA10040
	300	201FA30040
63	30	201FA03063
	100	201FA10063
	300	201FA30063

'N' SERIES OF DISTRIBUTION BOARDS



PRODUCT OVERVIEW

The Distribution Board is not merely an enclosure but a composite system in itself, through which the power is distributed to various circuits received from a single source of supply. Enclosure may be single door or double door comprising of copper busbars, brass neutral links, and earth links to facilitate effective distribution of current.

Orient Electric introduces panoptic range of compact, elegant & economical Distribution Boards coupled with functionality and aesthetics suitable for residential, commercial & industrial applications.

Orient Electric's range of distribution boards are much more than enclosures. They incorporate new dimensions of protection for safety and convenience. Orient DBs combine very well with MCB & RCCB to provide comprehensive protection as a complete system.

DISTRIBUTION BOARDS



Smart Features & Benefits

- Compact design which occupies minimum space
- Raised neutral link for easy assembly
- Sliding door lock method with earthing and removable front plate
- Removable top / bottom gland plates
- Pozidrive screws for easy removal
- Tin plated insulated copper busbar
- Choice of plain and acrylic door
- Circuit identification labels
- Detachable din rail for easy assembly of breaker
- Suitable for surface as well as flush mounting

Colour :

RAL 7035, Light Grey, Matt Finish

Specification

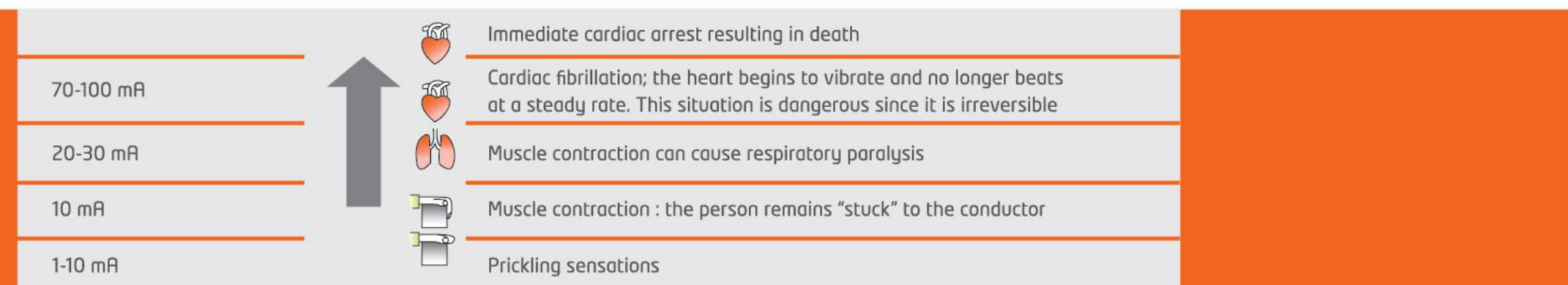
IS 8623, IS 13032, IEC 61439-3

PROTECTION AGAINST ELECTROCUTION

The use of exposed, substandard, badly wired, wrongly connected or damaged equipment as well as frayed or badly repaired cables reduces the safety of an installation and increases the risk of person receiving an electric shock. Electrocution is a passage of current through human body, which is dangerous. The flow of current through human body effects vital functions such as:

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



However, electrical shock should not be viewed in terms of "current" alone, but in terms of "contact voltage". A person gets electrocuted by coming in contact with an object that has a different potential from his/her own. The difference in potential causes the current to flow through the body

AGAINST INDIRECT CONTACT

Over-current protection devices like MCB are unable to act promptly on small earth leakage currents. To comply with wiring regulations, the earth fault loop impedance in Ohms, multiplied by the rated tripping current of the RCD in amperes must not exceed 50.

PROTECTION IN THE EVENT OF DIRECT CONTACT

To provide extra protection in the event of direct contact with an (unearthed) live part, extremely sensitive RCCBs with a rated residual operating current of 30 mA ($I_{\Delta n}=30$ mA) are used instead of more conventional RCCBs with higher residual operating fault currents.

This extra protection is necessary in the following cases;

- The insulation of totally insulated devices or their load is damaged
- The earth wire is interrupted
- The earth wire and live wire have been accidentally transposed
- A component which is live in normal operation is touched during repair work
- In case of a socket outlet power circuit in rooms with a bath or shower
- For caravans, boats and yachts and the power supply on camping or berthing sites
- For electrical appliances used in medical facilities

The drawn-in-switch-off characteristics of residual current devices with a rated fault current of 10 and 30 mA is proof that these are able to prevent the occurrence of dangerous heart chamber fibrillation. For this reason, residual current circuit breaker with rated fault current of 10 mA are used for protection of particularly exposed individually equipment.

Residual current circuit breaker with 30 mA rated fault current are already specified for many areas (bath, rooms with medical facilities, outside areas, agricultural land etc.)

WORKING PRINCIPLE

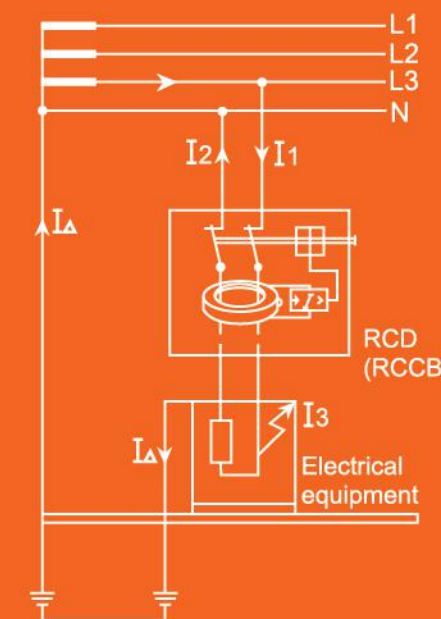
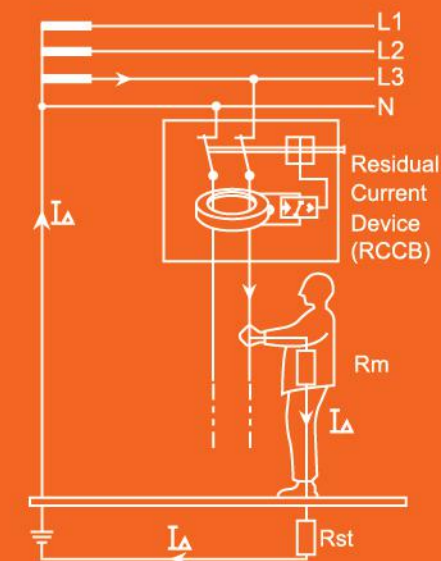
The RCCB function is based on Kirchhoff's current law explained below:

- If the vector sum of incoming current is equal to the vector sum of outgoing current, the RCCB will not trip
- If the vector sum of incoming current is not equal to the vector sum of outgoing current, it indicates a leakage and the RCCB will trip

Due to magnetic imbalance in the transformer of the RCCB, the residual magnetism induces a current in the secondary winding coiled around the transformer core which acts on the trip relay. When reaching the trip value (dependent on the rated fault current), this current causes the armature of the magnetic trip to drop out.

The trip operates the lock which open the contacts by way of the energy stored within.

Consequently all poles of the system are separated from the mains system.

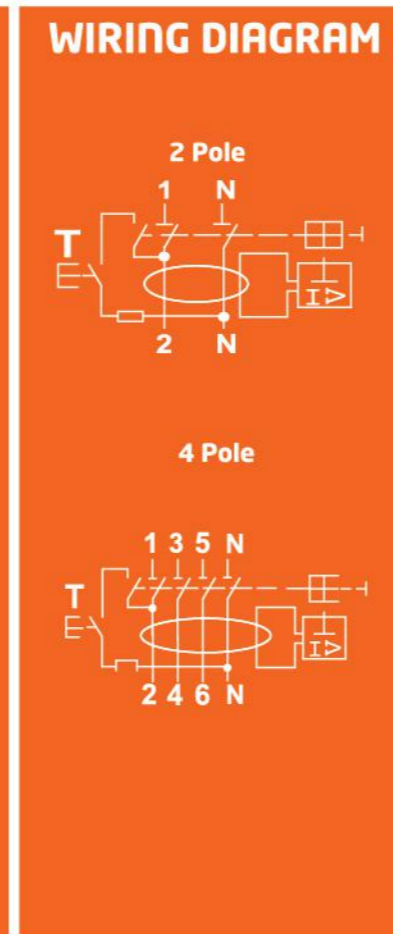
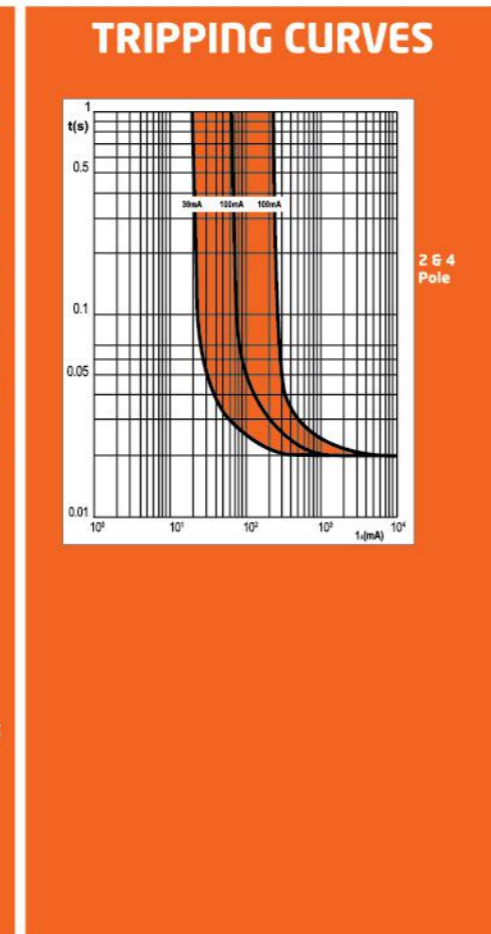
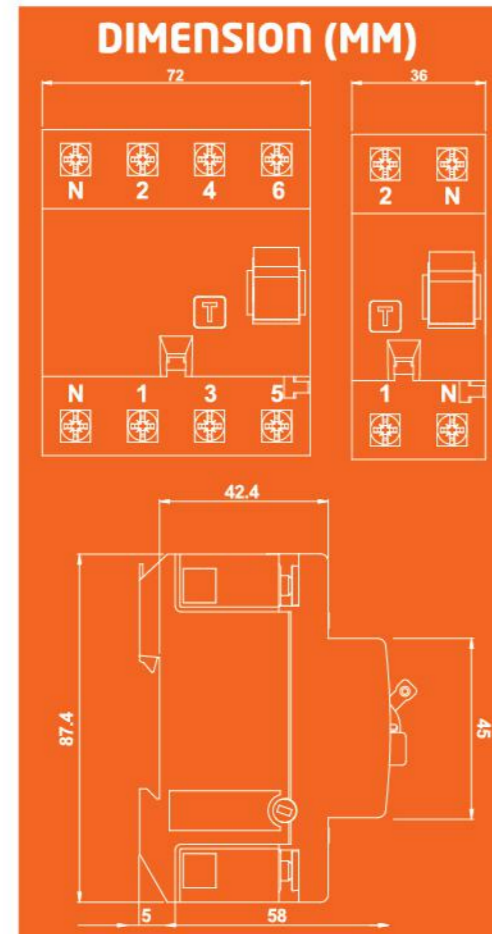


SENSITIVITY SELECTION CHART - RCCB

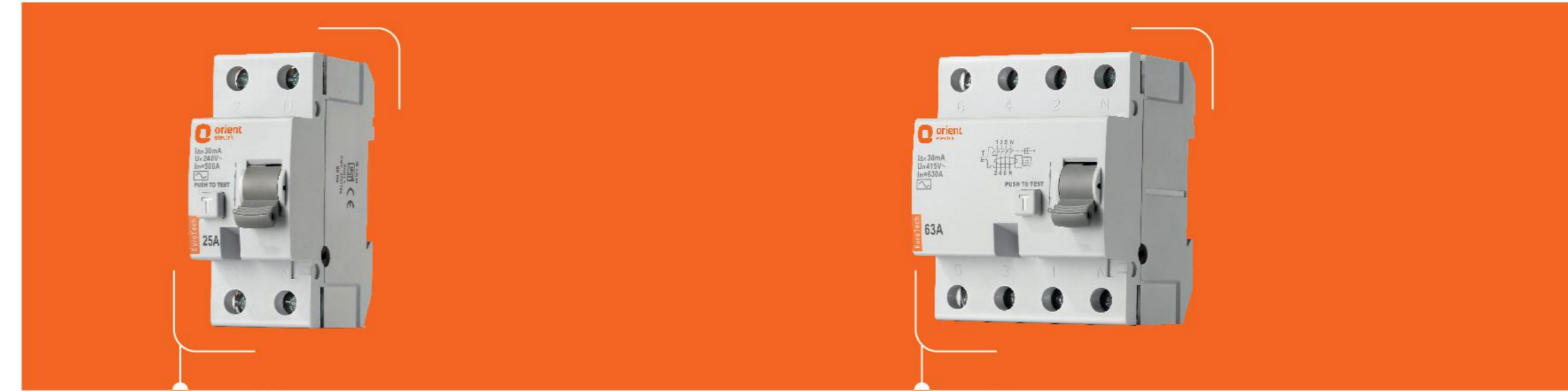
Sensitivity	Applications
30mA	Tripping current designed for additional protection against direct contact or where specially required by the Indian wiring regulations. e.g.- sockets outside the equipotential zone TT systems, supply to caravan installation etc., the 30mA RCCB protects against leakage currents & indirect contact with earth loop impedance upto 1667 ohms; for use as additional protection against direct contact, residual tripping current must not exceed 30mA.
100mA	Tripping current is suitable for protection against indirect contact & leakage currents for larger installations; the 100mA RCCB operates within 30ms, but don't provide the same level of personal protection as the 30mA units; the 100mA RCCB protects against leakage currents and indirect contact with earth loop impedance upto 500 Ohms.
300mA	Less sensitive protection suitable for large installations having high level of leakage currents; 300mA RCCB protects against leakage current and indirect contact upto 1670 Ohms earth loop impedance.

TECHNICAL SPECIFICATIONS - RCCB

	Details
Rated voltage U_n	240V-DP
Rated current I_n	415V -FP
Rated residual current I	0.03, 0.1, 0.3 A
Conditional short-circuit current	10 kA
Rated making and breaking capacity I	500A upto 40A RCCB 630A for 63A RCCB
Tripping Time	0.2 Seconds
Back-up fuse	63/100 A gG
Degree of protection	IP 20 (IP40)
Dielectric strength	2000 V, 50Hz
Cross-section of connecting lead	1 - 25 mm ²
No. of Poles	2 Pole, 4 Pole
Rated Insulation Voltage (Ui)	500 V
Rated Impulse Voltage (Uimp)	4 kV
Operating Temperature	Min. = -25°C. Max. = +70°C
Vibration	3g, 50Hz
Positive Contact Indicator	Yes ((Red-"ON", Green-"OFF"))
Shock Resistance	40mm free fall
Auxiliary Contacts	On request
Shunt Trip	On request
Mounting	On Din rail IS/IEC 60715
Installation Position	Vertical / Horizontal
Standards	IS 12640-1&IEC/EN61008-1



ORDERING INFORMATION



Rated short circuit capacity **10 kA**
 Rated Current **25 to 63 A**
 Sensitivity **30mA, 100mA, 300mA**

Rating (A)	Sensitivity (mA)	AC Type	
		2 Pole (240V)	Cat. No.
25	30	201DA03025	
	100	201DA10025	
	300	201DA30025	
40	30	201DA03040	
	100	201DA10040	
	300	201DA30040	
63	30	201DA03063	
	100	201DA10063	
	300	201DA30063	

Rating (A)	Sensitivity (mA)	AC Type	
		4 Pole (415 V)	Cat. No.
25	30	201FA03025	
	100	201FA10025	
	300	201FA30025	
40	30	201FA03040	
	100	201FA10040	
	300	201FA30040	
63	30	201FA03063	
	100	201FA10063	
	300	201FA30063	

'N' SERIES OF DISTRIBUTION BOARDS



PRODUCT OVERVIEW

The Distribution Board is not merely an enclosure but a composite system in itself, through which the power is distributed to various circuits received from a single source of supply. Enclosure may be single door or double door comprising of copper busbars, brass neutral links, and earth links to facilitate effective distribution of current.

Orient Electric introduces panoramic range of compact, elegant & economical Distribution Boards coupled with functionality and aesthetics suitable for residential, commercial & industrial applications.

Orient Electric's range of distribution boards are much more than enclosures. They incorporate new dimensions of protection for safety and convenience. Orient DBs combine very well with MCB & RCCB to provide comprehensive protection as a complete system.

DISTRIBUTION BOARDS



Smart Features & Benefits

- Compact design which occupies minimum space
- Raised neutral link for easy assembly
- Sliding door lock method with earthing and removable front plate
- Removable top / bottom gland plates
- Pozidrive screws for easy removal
- Tin plated insulated copper busbar
- Choice of plain and acrylic door
- Circuit identification labels
- Detachable din rail for easy assembly of breaker
- Suitable for surface as well as flush mounting

Colour :

RAL 7035, Light Grey, Matt Finish

Specification

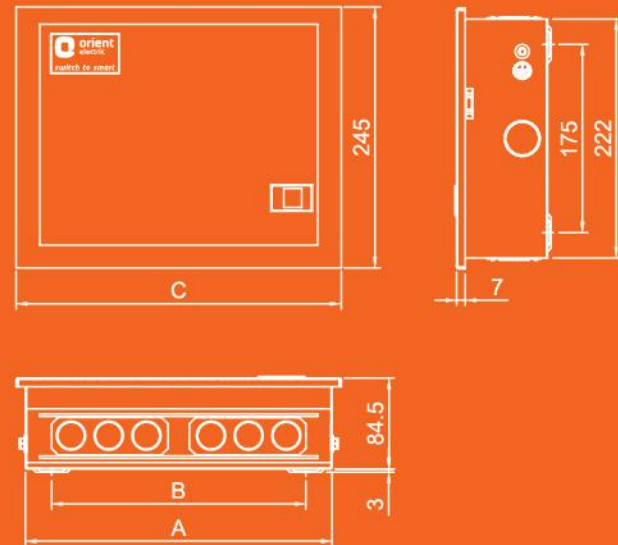
IS 8623, IS 13032, IEC 61439-3

'N' SERIES SPN DBS

DESCRIPTION

Metal DBs for Single Phase & Neutral (SPN) supply distribution.

Available in single, double & acrylic door.



Technical Specification	
Type of Installation	Surface & flush mounting
Colour / Finish	RAL 7035, Light grey matt finish
Distribution Technique	Insulated Bus Bar
Material	CRCA sheet steel
Bus bar Rating	100 A
Dielectric strength	2.5 kV
Bus bar Short Time Withstand (Icw)	5 kA for 0.1 second
Bus bar Conditional Short Circuit (Ics)	10 kA
Voltage Rating	240 V a.c, 1 Phase
Neutral Bar Terminal Capacity	16 mm ²
Earthing Bar Terminal Capacity	16 mm ²
Index of Protection (IP)	IP30 for single door IP42 for double door
Insulation Voltage (Ui)	690 V a.c
Frequency	50 Hz
Ambient Temperature	-5° C to 40° C
Reference Standard	IS 8623; IS 13032; IEC 61439-3
Incoming:	Two pole MCBs / RCCB / Isolator
Outgoing:	SP MCBs

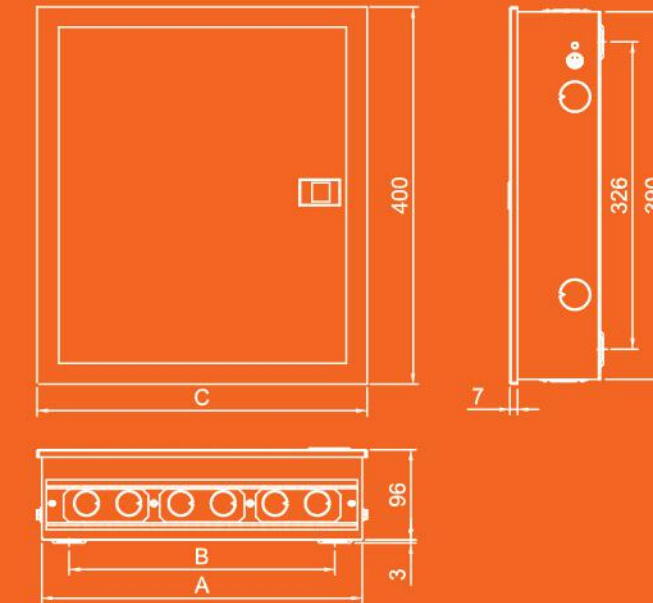
NO. OF WAYS	Single Door			Double Door			Acrylic Door			ø26, K'OUT TOP/BOTTOM	ø26, K'OUT LH/RH SIDE			
	CAT. NO.	A	B	C	CAT. NO.	A	B	C	CAT. NO.			A	B	C
4	301SSDRG04T	135	60	150	301SDDR04T	145	96	162	301SADR04T	145	96	162	2 / 2 NOS.	1 / 1 NO.
6	301SSDRG06T	170	95	185	301SDDR06T	180	131	197	301SADR06T	180	131	197	2 / 2 NOS.	1 / 1 NO.
8	301SSDRG08T	205	130	220	301SDDR08T	215	166	232	301SADR08T	215	166	232	3 / 3 NOS.	1 / 1 NO.
10	301SSDRG10T	240	165	255	301SDDR10T	250	201	267	301SADR10T	250	201	267	3 / 3 NOS.	1 / 1 NO.
12	301SSDRG12T	275	200	290	301SDDR12T	285	236	302	301SADR12T	285	236	302	4 / 4 NOS.	1 / 1 NO.
14	301SSDRG14T	310	235	325	301SDDR14T	320	271	337	-	-	-	-	4 / 4 NOS.	1 / 1 NO.
16	301SSDRG16T	350	275	365	301SDDR16T	355	306	372	-	-	-	-	5 / 5 NOS.	1 / 1 NO.

'N' SERIES TPN DB

Description

Metal DBs for Three Phase & Neutral (TPN) supply distribution.

Available in single, double & acrylic door.



Technical Specification	
Type of Installation	Surface & Flush Mounting
Colour / Finish	RAL 7035, Light grey matt finish
Distribution Technique	Insulated Bus Bar
Material	CRCA sheet steel
Bus bar Rating	100 A
Dielectric strength	2.5 kV
Bus bar Short Time Withstand (Icw)	5 kA for 0.1 second
Bus bar Conditional Short Circuit (Ics)	10 kA
Voltage Rating	240-415 V a.c, 3 Phase/4 wire
Neutral Bar Terminal Capacity	16 mm ²
Earthing Bar Terminal Capacity	16 mm ²
Index of Protection (IP)	IP30 for single door IP42 for double door
Insulation Voltage (Ui)	690 V a.c
Frequency	50 Hz
Ambient Temperature	-5° C to 40° C
Reference Standard	IS 8623; IS 13032; IEC 61439-3
Incoming:	Four pole MCBs / RCCB / Isolator
Outgoing:	SP MCBs

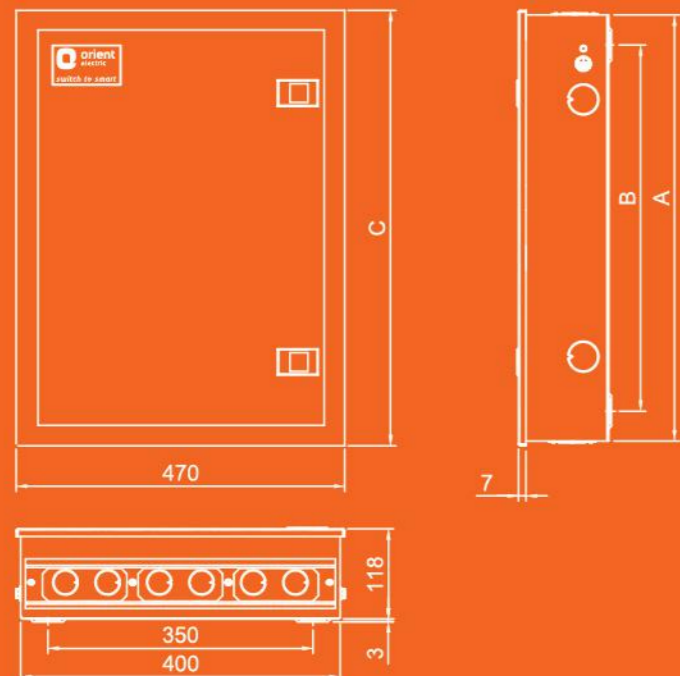
NO. OF WAYS	Single Door			Double Door			Acrylic Door			ø26, K'OUT TOP/BOTTOM	ø26, K'OUT LH/RH SIDE			
	CAT. NO.	A	B	C	CAT. NO.	A	B	C	CAT. NO.			A	B	C
4	301TSDRG04T	295	220	310	301TDDR04T	270	212	280	301TADR04T	270	212	280	4 / 4 NOS.	3 / 3 NOS.
6	301TSDRG06T	330	255	345	301TDDR06T	340	282	350	301TADR06T	340	282	350	4 / 4 NOS.	3 / 3 NOS.
8	301TSDRG08T	460	385	475	301TDDR08T	410	352	420	301TADR08T	410	352	420	6 / 4 NOS.	3 / 3 NOS.
10	301TSDRG10T	600	525	620	301TDDR10T	480	422	490	301TADR10T	480	422	490	6 / 6 NOS.	3 / 3 NOS.
12	301TSDRG12T	740	665	760	301TDDR12T	550	492	560	301TADR12T	550	492	560	8 / 8 NOS.	3 / 3 NOS.

'N' SERIES TPN VERTICAL DB

Description

Metal DBs with 200A vertical bus-bar for Three Phase & Neutral (TPN) supply distribution.

Available in single, double & acrylic door.



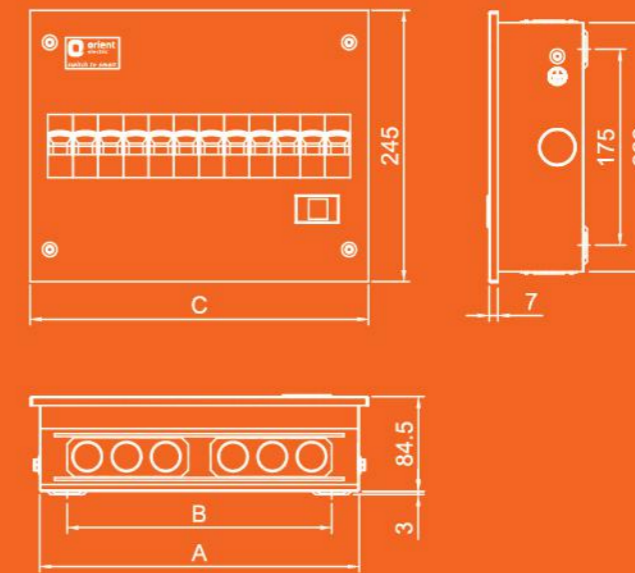
Technical Specification	
Type of Installation	Surface & Flush Mounting
Colour / Finish	RAL 7035, Light grey matt finish
Distribution Technique	Insulated Bus Bar
Material	CRCA sheet steel
Bus bar Rating	200 A
Dielectric strength	2.5 kV
Bus bar Short Time Withstand (Icw)	5 kA for 0.1 second
Bus bar Conditional Short Circuit (Ics)	10 kA
Voltage Rating	240-415 V a.c, 3 Phase/4 wire
Neutral Bar Terminal Capacity	35 mm ²
Earthing Bar Terminal Capacity	16 mm ²
Index of Protection (IP)	IP30 for single door IP42 for double door
Insulation Voltage (Ui)	690 V a.c
Frequency	50 Hz
Ambient Temperature	-5° C to 40° C
Reference Standard	IS 8623; IS 13032; IEC 61439-3
Incoming	Four pole MCBs / RCCB / Isolator
Outgoing	SP/TP MCBs

NO. OF WAYS	Single Door			Double Door			ø26, K'OUT TOP/BOTTOM	ø26, K'OUT LH/RH SIDE		
	CAT. NO.	A	B	C	CAT. NO.	A			B	C
4	302TSDRG04T	500	450	520	302TDDR04T	500	450	520	5 / 5 NOS.	2 / 2 NOS.
6	302TSDRG06T	550	500	570	302TDDR06T	550	500	570	5 / 5 NOS.	3 / 3 NOS.
8	302TSDRG08T	600	550	620	302TDDR08T	600	550	620	5 / 5 NOS.	4 / 4 NOS.
12	302TSDRG12T	700	650	720	302TDDR12T	700	650	720	5 / 5 NOS.	6 / 6 NOS.

'N' SERIES CONSUMER UNIT SPN DBS

Description

Consumer Unit DBs for Single Phase & Neutral (SPN) supply distribution.



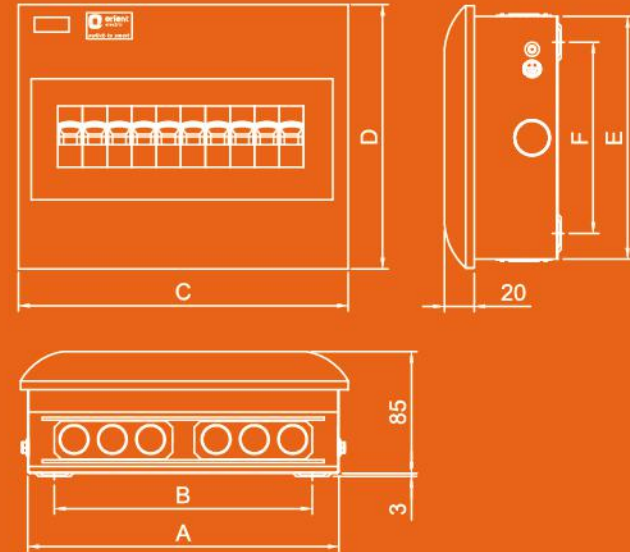
NO. OF WAYS	Single Door			ø26, K'OUT TOP/BOTTOM	ø26, K'OUT LH/RH SIDE	
	CAT. NO.	A	B			C
4	321SSWRG04T	135	60	150	2 / 2 NOS.	1 / 1 NO.
6	321SSWRG06T	170	95	185	2 / 2 NOS.	1 / 1 NO.
8	321SSWRG08T	205	130	220	3 / 3 NOS.	1 / 1 NO.
12	321SSWRG12T	275	200	290	4 / 4 NOS.	1 / 1 NO.

Technical Specification	
Type of Installation	Surface & Flush Mounting
Colour / Finish	RAL 7035, Light grey Textured finish
Distribution Technique	Insulated Bus Bar
Material	CRCA sheet steel
Bus bar Rating	100 A
Dielectric strength	2.5 kV
Bus bar Short Time Withstand (Icw)	5 kA for 0.1 second
Bus bar Conditional Short Circuit (Ics)	10 kA
Voltage Rating	240 V a.c, 1 Phase
Neutral Bar Terminal Capacity	16 mm ²
Earthing Bar Terminal Capacity	16 mm ²
Index of Protection (IP)	IP30 for single door
Insulation Voltage (Ui)	690 V a.c
Frequency	50 Hz
Ambient Temperature	-5° C to 40° C
Reference Standard	IS 8623; IS 13032; IEC 61439-3
Incoming:	Two pole MCBs / RCCB / Isolator
Outgoing:	SP MCBs

'N' SERIES CONSUMER UNIT SPN DBS WITH ACRYLIC WINDOW

Description

Consumer Unit DBs with acrylic window for Single Phase & Neutral (SPN) supply distribution.



Technical Specification	
Type of Installation	Surface & Flush Mounting
Colour / Finish	RAL 7035, Light grey Textured finish
Distribution Technique	Insulated Bus Bar
Material	CRCA sheet steel
Bus bar Rating	100 A
Dielectric strength	2.5 kV
Bus bar Short Time Withstand (Icw)	5 kA for 0.1 second
Bus bar Conditional Short Circuit (Ics)	10 kA
Voltage Rating	240 V a.c, 1 Phase
Neutral Bar Terminal Capacity	16 mm ²
Earthing Bar Terminal Capacity	16 mm ²
Index of Protection (IP)	IP40 for single door
Insulation Voltage (Ui)	690 V a.c
Frequency	50 Hz
Ambient Temperature	-5° C to 40° C
Reference Standard	IS 8623; IS 13032; IEC 61439-3
Incoming:	Two pole MCBs / RCCB / Isolator
Outgoing: SP MCBs	SP MCBs

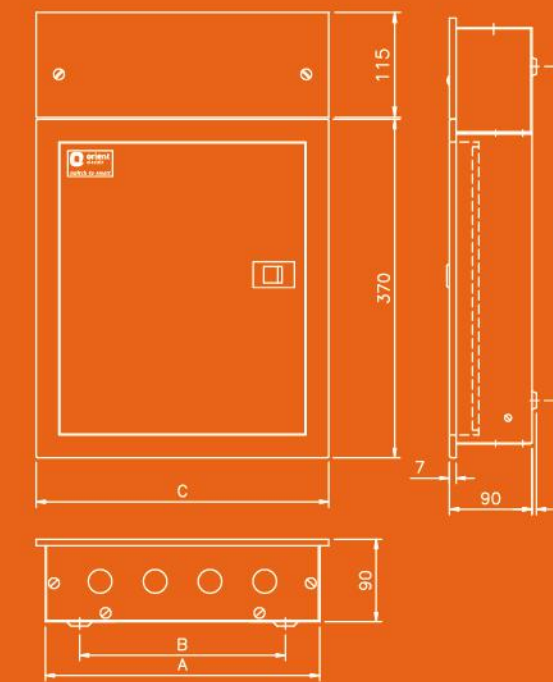
NO. OF WAYS	CAT. NO.	Single Door						ø26, K'OUT TOP/BOTTOM	ø26, K'OUT LH/RH SIDE
		A	B	C	D	F	E		
4	321SAWRG04T	135	80	147	160	70	140	2 / 2 NOS.	1 / 1 NO.
6	321SAWRG06T	185	130	215	197	105	175	2 / 2 NOS.	1 / 1 NO.
8	321SAWRG08T	220	165	250	212	120	190	3 / 3 NOS.	1 / 1 NO.
12	321SAWRG12T	290	235	320	212	120	190	4 / 4 NOS.	1 / 1 NO.
16	321SAWRG16T	365	310	395	212	120	190	5 / 5 NOS.	1 / 1 NO.

'N' SERIES PREWIRED SPN DBS

Description

Metal DBs for Three Phase & Neutral (TPN) supply distribution with total phase segregation.

Available in double door.



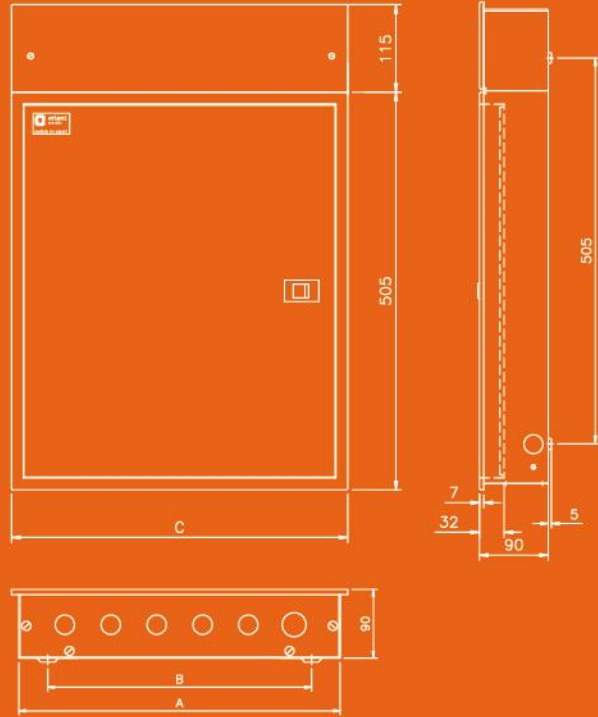
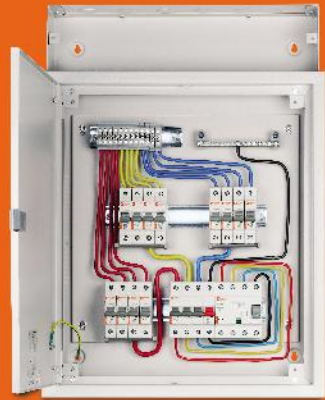
Technical Specification	
Type of Installation	Surface & Flush Mounting
Colour / Finish	RAL 7035, Light grey Textured finish
Distribution Technique	Insulated Bus Bar
Material	CRCA sheet steel
Bus bar Rating	100 A
Dielectric strength	2.5 kV
Bus bar Short Time Withstand (Icw)	5 kA for 0.1 second
Bus bar Conditional Short Circuit (Ics)	10 kA
Voltage Rating	240 V a.c, 1 Phase
Neutral Bar Terminal Capacity	16 mm ²
Earthing Bar Terminal Capacity	16 mm ²
Index of Protection (IP)	IP42
Insulation Voltage (Ui)	690 V a.c
Frequency	50 Hz
Ambient Temperature	-5° C to 40° C
Reference Standard	IS 8623; IS 13032; IEC 61439-3
Incoming:	Two pole MCBs / RCCB / Isolator
Outgoing: SP MCBs	SP MCBs

NO. OF WAYS	DOUBLE DOOR CAT NO.	IC/OG	Dimensions (mm)				4 SQMM TB	ø26, K'OUT	
			A	B	C	TOP		BOTTOM	
6	311SDDRG06T	6+2	260	165	280	6 NOS.	3 NOS.	3 NOS.	
8	311SDDRG08T	8+2	300	205	320	8 NOS.	4 NOS.	4 NOS.	
10	311SDDRG10T	10+2	340	245	360	10 NOS.	5 NOS.	5 NOS.	
12.v	311SDDRG10T	12+2	380	285	400	12 NOS.	6 NOS.	6 NOS.	
16	311SDDRG16T	16+2	460	365	480	16 NOS.	6 NOS.	6 NOS.	

'N' SERIES PREWIRED TPN DBS

Description

Metal DBs for Three Phase & Neutral (TPN) supply distribution.
Available in double door.



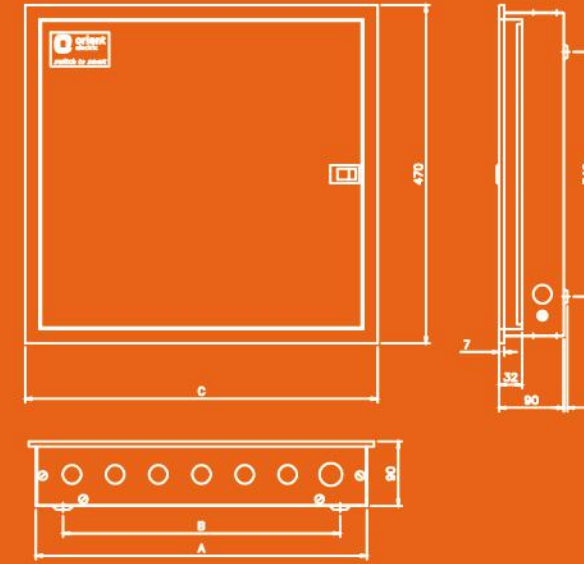
Technical Specification	
Type of Installation	Surface & Flush Mounting
Colour / Finish	RAL 7035, Light grey Textured finish
Distribution Technique	Insulated Bus Bar
Material	CRCA sheet steel
Bus bar Rating	100 A
Dielectric strength	2.5 kV
Bus bar Short Time Withstand (Icw)	5 kA for 0.1 second
Bus bar Conditional Short Circuit (Ics)	10 kA
Voltage Rating	240-415 V a.c, 3 Phase/4 wire
Neutral Bar Terminal Capacity	16 mm ²
Earthing Bar Terminal Capacity	16 mm ²
Index of Protection (IP)	IP42
Insulation Voltage (Ui)	690 V a.c
Frequency	50 Hz
Ambient Temperature	-5° C to 40° C
Reference Standard	IS 8623; IS 13032; IEC 61439-3
Incoming	Four pole MCBs / RCCB / Isolator
Outgoing	SP MCBs

NO. OF WAYS	DOUBLE DOOR CAT NO.	Dimensions (mm)				ø26, K'OUT		ø26, K'OUT		ø26, K'OUT	
		A	B	C	PHASE TB	TOP	BOTTOM	TOP	BOTTOM	LH SIDE	RH SIDE
4	311TDDRG04T	420	345	440	12 NOS.	5 NOS.	5 NOS.	1 NO.	1 NO.	1 NO.	1 NO.
6	311TDDRG06T	455	380	475	18 NOS.	5 NOS.	5 NOS.	1 NO.	1 NO.	1 NO.	1 NO.
8	311TDDRG08T	490	415	510	24 NOS.	6 NOS.	6 NOS.	1 NO.	1 NO.	1 NO.	1 NO.
12	311TDDRG12T	630	555	650	36 NOS.	8 NOS.	8 NOS.	1 NO.	1 NO.	1 NO.	1 NO.

'N' SERIES PER PHASE ISOLATION TPN DBS

Description

Metal DBs for Three Phase & Neutral (TPN) supply distribution with (PPI) per phase isolation.



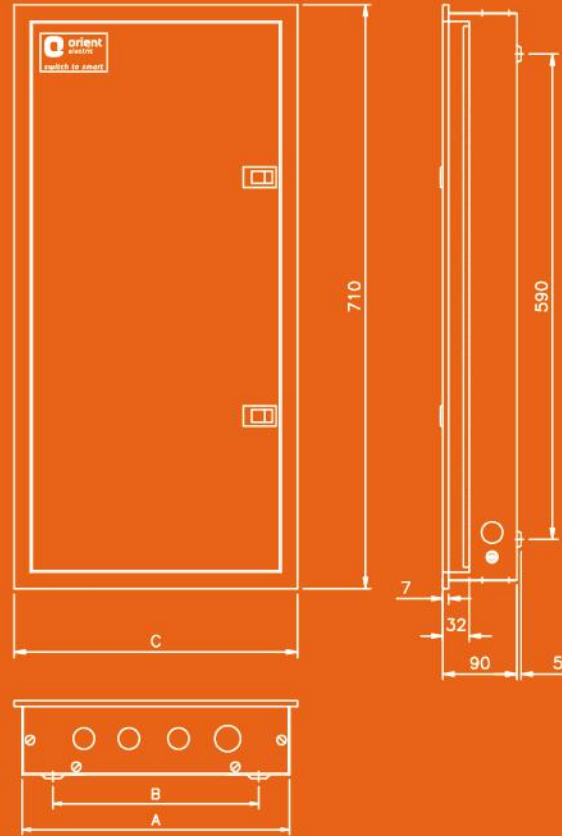
Technical Specification	
Type of Installation	Surface & Flush Mounting
Colour / Finish	RAL 7035, Light grey Textured finish
Distribution Technique	Insulated Bus Bar
Material	CRCA sheet steel
Bus bar Rating	100A
Dielectric strength	2.5 kV
Bus bar Short Time Withstand (Icw)	5 kA for 0.1 second
Bus bar Conditional Short Circuit (Ics)	10 kA
Voltage Rating	240-415 V a.c, 3 Phase/4 wire
Neutral Bar Terminal Capacity	16 mm ²
Earthing Bar Terminal Capacity	16 mm ²
Index of Protection (IP)	IP30 for single door IP42 for double door
Insulation Voltage (Ui)	690 V a.c
Frequency	50 Hz
Ambient Temperature	-5° C to 40° C
Reference Standard	IS 8623; IS 13032; IEC 61439-3
Incoming	Four pole MCBs / RCCB / Isolator
Sub Incoming	Two pole MCBs / RCCB
Outgoing	SP MCBs

NO. OF WAYS	DOOR CAT NO.	Dimensions (mm)			ø32 K'OUT		ø26, K'OUT		ø32 K'OUT	
		A	B	C	TOP	BOTTOM	TOP	BOTTOM	LH SIDE	RH SIDE
4	351TDDRG04T	375	300	395	1 NO.	1 NO.	4 NOS.	4 NOS.	1 NO.	1 NO.
6	351TDDRG06T	470	395	490	1 NO.	1 NO.	6 NOS.	6 NOS.	1 NO.	1 NO.
8	351TDDRG08T	500	425	520	1 NO.	1 NO.	7 NOS.	7 NOS.	1 NO.	1 NO.

'N' SERIES PER PHASE ISOLATION TPN 4 TIER DBS

Description

Metal DBs for Three Phase & Neutral (TPN) supply distribution with (PPI) per phase isolation.



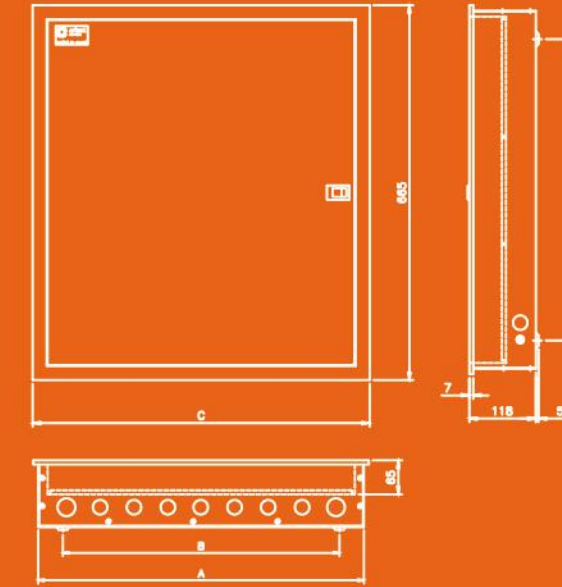
Technical Specification	
Type of Installation	Surface & Flush Mounting
Colour / Finish	RAL 7035, Light grey Textured finish
Distribution Technique	Insulated Bus Bar
Material	CRCA sheet steel
Bus bar Rating	100 A
Dielectric strength	2.5 kV
Bus bar Short Time Withstand (Icw)	5 kA for 0.1 second
Bus bar Conditional Short Circuit (Ics)	10 kA
Voltage Rating	240-415 V a.c, 3 Phase/4 wire
Neutral Bar Terminal Capacity	16 mm ²
Earthing Bar Terminal Capacity	16 mm ²
Index of Protection (IP)	IP30 for single door IP42 for double door
Insulation Voltage (Ui)	690 V a.c
Frequency	50 Hz
Ambient Temperature	-5° C to 40° C
Reference Standard	IS 8623; IS 13032; IEC 61439-3
Incoming	Four pole MCBs / RCCB / Isolator
Sub Incoming	Two pole MCBs / RCCB
Outgoing	SP MCBs

NO. OF WAYS	4 TIER DOUBLE DOOR CAT NO.	IG/OG	Dimensions (mm)			ø32, K'OUT		ø26, K'OUT		ø32, K'OUT	
			A	B	C	TOP	BOTTOM	TOP	BOTTOM	LHSIDE	RH SIDE
8	352TDDR08T	8+6+24	375	300	395	1 NO.	1 NO.	4 NOS.	4 NOS.	1 NO.	1 NO.
12	352TDDR12T	8+6+36	450	375	470	1 NO.	1 NO.	5 NOS.	5 NOS.	1 NO.	1 NO.

'N' SERIES 7 SEGMENT DBS

Description

Metal 7 Segment DBs for Three Phase & Neutral (TPN) supply distribution.



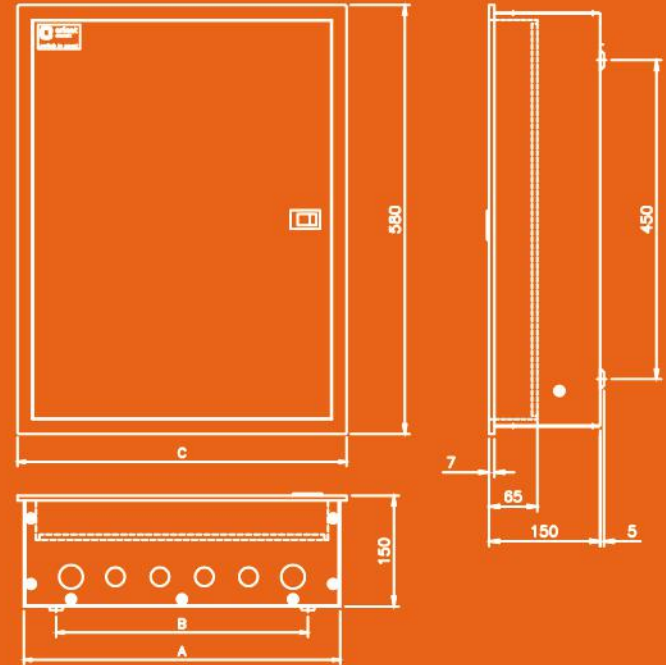
Technical Specification	
Type of Installation	Surface & Flush Mounting
Colour / Finish	RAL 7035, Light grey Textured finish
Distribution Technique	Insulated Bus Bar
Material	CRCA sheet steel
Bus bar Rating	100 A
Dielectric strength	2.5 kV
Bus bar Short Time Withstand (Icw)	5 kA for 0.1 second
Bus bar Conditional Short Circuit (Ics)	10 kA
Voltage Rating	240-415 V a.c, 3 Phase/4 wire
Neutral Bar Terminal Capacity	16 mm ²
Earthing Bar Terminal Capacity	16 mm ²
Index of Protection (IP)	IP42 for double door
Insulation Voltage (Ui)	690 V a.c
Frequency	50 Hz
Ambient Temperature	-5° C to 40° C
Reference Standard	IS 8623; IS 13032; IEC 61439-3
Incoming	Four pole MCBs / RCCB / Isolator
Sub-incoming	Two pole MCBs / RCCB / Isolator
Outgoing	SP MCBs

NO. OF WAYS	DOUBLE DOOR CAT NO.	Dimensions (mm)			ø32, K'OUT		ø26, K'OUT		SIDE, K'OUT	
		A	B	C	TOP	BOTTOM	TOP	BOTTOM	LHSIDE	RH SIDE
4	341TDDR04T	520	430	540	1 NO.	1 NO.	5 NOS.	5 NOS.	1 NO.	1 NO.
6	341TDDR06T	620	530	640	1 NO.	1 NO.	7 NOS.	7 NOS.	1 NO.	1 NO.
8	341TDDR08T	730	640	750	1 NO.	1 NO.	9 NOS.	9 NOS.	1 NO.	1 NO.
12	341TDDR12T	940	850	960	1 NO.	1 NO.	13 NOS.	13 NOS.	1 NO.	1 NO.

'N' SERIES VERTICAL PHASE SELECTOR TPN DBS

Description

Metal DB for Three Phase & Neutral (TPN) supply distribution with selector switches for phase selection.



Technical Specification

Type of Installation	Surface & Flush Mounting
Colour / Finish	RAL 7035, Light grey Textured finish
Distribution Technique	Insulated Bus Bar
Material	CRCA sheet steel
Bus bar Rating	100 A
Dielectric strength	2.5 kV
Bus bar Short Time Withstand (Icw)	5 kA for 0.1 second
Bus bar Conditional Short Circuit (Ics)	10 kA
Voltage Rating	240-415 V a.c, 3 Phase/4 wire
Neutral Bar Terminal Capacity	16 mm ²
Earthing Bar Terminal Capacity	16 mm ²
Index of Protection (IP)	IP42 for double door
Insulation Voltage (Ui)	690 V a.c
Frequency	50 Hz
Ambient Temperature	-5° C to 40° C
Reference Standard	IS 8623; IS 13032; IEC 61439-3
Incoming	Four pole MCBs / RCCB / Isolator
Outgoing	SP MCBs

NO. OF WAYS	63A DOUBLE DOOR CAT NO.	Dimensions (mm)			ø26, K'OUT		ø32, K'OUT	
		A	B	C	TOP	BOTTOM	TOP	BOTTOM
4	332TDDR6304T	420	345	440	4 NOS.	4 NOS.	2 NOS.	2 NOS.
6	332TDDR6306T	455	380	475	5 NOS.	5 NOS.	2 NOS.	2 NOS.
8	332TDDR6308T	490	415	510	5 NOS.	5 NOS.	2 NOS.	2 NOS.

'N' SERIES PLUG & SOCKET DBS

Description

Insulated / Metal-clad plug & socket outlets suitable for protection of appliances like ACs & Motors



Technical Specification

Type of Installation	Surface & Flush Mounting
Colour / Finish	RAL 7035, Light grey Textured finish
Material	CRCA sheet steel
Voltage Rating	240 V a.c, 1 Phase
Index of Protection (IP)	IP30 for single door
Insulation Voltage (Ui)	690 V a.c
Frequency	50 Hz
Ambient Temperature	-5° C to 40° C
Reference Standard	IS 8623; IS 13032; IEC 61439-3

RATING	CAT NO.	Dimensions (mm)			ø26, K'OUT	
		A	B	C	TOP	BOTTOM
20A SP	371SPG20T	120	80	135	2 NOS.	2 NOS.
20A SPN	371SRG20T	120	80	135	2 NOS.	2 NOS.
30A TPN	371TRG30T	120	80	135	2 NOS.	2 NOS.

Plug Assembly

Socket Assembly

RATING	TYPE	CAT NO.	CAT NO.
20A	SPN	372SPARG20	372SSARG20
30A	TPN	372TPARG30	372TSARG30

Notes

A series of horizontal dashed lines for writing notes.



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THE
SUREST
WAY TO
BE SAFE



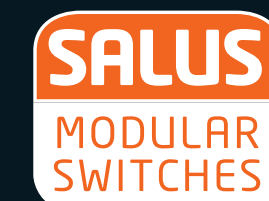
INTRODUCING ORIENT ELECTRIC SWITCHES WITH
3 LAYERS OF SAFETY

INTRODUCING ORIENT MODULAR SWITCHES

Make a smart choice.

Excellence fueled by innovation is how one can describe Orient Electric. The company's ground-breaking success in all its endeavours is a testimony to this single-minded pursuit. Since the beginning, Orient Electric has embraced the latest in technology to offer customers the most complete and diverse electrical solutions, including fans, home appliances, lighting and switchgear.

Carrying forward this legacy, the company now brings to you Salus - an all-new range of modular switches. Salus is the Goddess of Safety in Roman. So obviously, it's a name worthy for a range of switches that are durable, world-class, and of course, extremely safe.

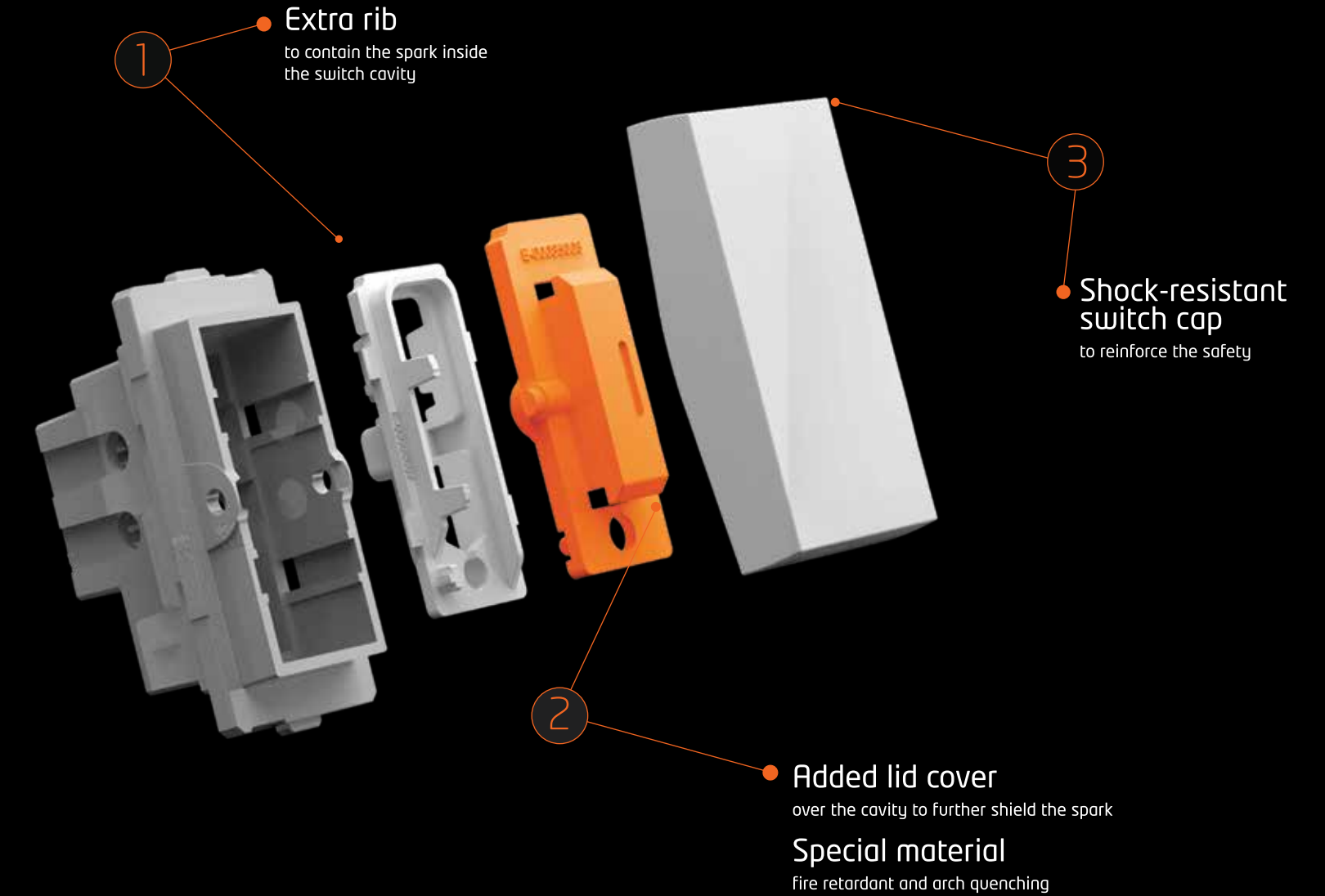


Superior build quality | Elegant design | Anti-weld Contacts

3 LAYERS
OF SAFETY.



Orient Electric's new world-class range of modular switches boasts of the revolutionary 3AB technology, the first and only-of-its-kind technology that provides you with an unprecedented three layers of safety.



FEATURES THAT SET SALUS APART



THREE-LAYERED ARC SHIELDING MECHANISM FOR HIGHEST LEVEL OF SAFETY



- TERMINALS WITH BRASS/ SILVER-PLATING FOR COOLER RUNNING & LONGER LIFE
- WIRE CAPABILITY 6 SQUARE MM



- ZERO CONTACT BOUNCING FOR LONGER LIFE
- ANTI-WELD CONTACTS



MOVING CONTACT OF COPPER/ BRASS/SILVER INLAY



- UV STABILIZED MATERIAL FOR LONGER LIFE & PROTECTION AGAINST DE-COLOURISATION
- DUST-FREE
- FIRE RETARDANT POLYCARBONATE MATERIAL



ANTI-BACTERIAL MATERIAL



LOW NOISE



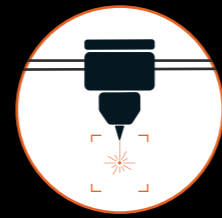
- CAPTIVE SCREW
- FINGER-PROOF TERMINAL (IP20) FOR HUMAN SAFETY



CONFORMING TO LATEST ISI STANDARDS



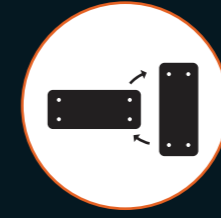
TUNNEL TERMINALS TO PREVENT SLIPPAGE OF SCREWDRIVERS



LASER MARKING ON MECHANISMS FOR CORRECT ORIENTATION & INSTALLATION



LONG-LASTING, ENERGY SAVING LED INDICATORS



SUITABLE FOR INSTALLATION IN HORIZONTAL & VERTICAL SPACE



FAN REGULATOR/DIMMER WITH HUMMING-FREE TECHNOLOGY FOR NOISELESS OPERATION



HIGH-GRADE GLASS-FILLED PIVOT FOR LONGER OPERATIONAL LIFE



SHUTTERED SOCKET TO PROTECT CHILDREN FROM ELECTRIC SHOCK



FAN, BELL ETC. MARKING FOR EASE OF IDENTIFICATION



STRIPPING TEMPLATE ON SOCKETS FOR STRIPPING OF WIRES IN EXACT LENGTH



FRONT LOADING OF SWITCH, SOCKET & ACCESSORIES FOR EASE OF INSTALLATION & REMOVAL

*FEATURES SHOWN ABOVE ARE FOR FULL PRODUCT RANGE. CERTAIN FEATURES ARE ONLY AVAILABLE IN SELECTED PRODUCTS.

**SWITCH RANGE
ANGEL WHITE**


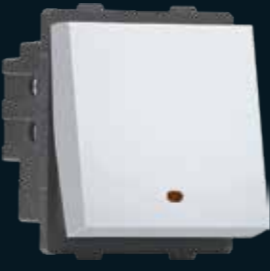


ONE
MODULE
SWITCH
WITHOUT
INDICATOR

ONE
MODULE
SWITCH
WITH
INDICATOR

TWO MODULE
SWITCH
WITHOUT
INDICATOR

TWO MODULE
SWITCH
WITH
INDICATOR

PRODUCTS	ITEM TYPE	ITEM CODE - ANGEL WHITE ●	ITEM CODE - SMOKE GREY ●
	10A 1WAY 10A 2WAY 10A BELL PUSH 20A 1WAY 20A 2WAY 25A 1WAY	43MRWH1001 43MRWH1002 43MRWH1003 43MRWH1006 43MRWH1007 43MRWH1010	43MRGR1001 43MRGR1002 43MRGR1003 43MRGR1006 43MRGR1007 43MRGR1010
	10A 1WAY WITH INDICATOR 10A BELL PUSH WITH INDICATOR 20A 1WAY WITH INDICATOR 25A 1WAY WITH INDICATOR	43MRWH1004 43MRWH1005 43MRWH1008 43MRWH1011	43MRGR1004 43MRGR1005 43MRGR1008 43MRGR1011
	10A MEGA 1WAY 10A MEGA BELL PUSH 10A MEGA 2WAY 20A MEGA 1WAY 20A MEGA 2WAY	43MRWH1012 43MRWH1014 43MRWH1016 43MRWH1017 43MRWH1019	43MRGR1012 43MRGR1014 43MRGR1016 43MRGR1017 43MRGR1019
	10A MEGA 1WAY WITH INDICATOR 10A MEGA BELL PUSH WITH INDICATOR 20A MEGA 1WAY WITH INDICATOR 20A MEGA DP WITH INDICATOR 32A MEGA DP WITH INDICATOR	43MRWH1013 43MRWH1015 43MRWH1018 43MRWH1009 43MRWH1020	43MRGR1013 43MRGR1015 43MRGR1018 43MRGR1009 43MRGR1020



• **SMOKE GREY**



• **SOCKET RANGE**





SHUTTERED
SOCKET

COMBINED
SHUTTERED
& UNIVERSAL
SOCKET

PRODUCTS	ITEM TYPE	ITEM CODE - ANGEL WHITE ●	ITEM CODE - SMOKE GREY ●
	6A 2 PIN SHUTTERED SOCKET	43MRWH2001	43MRGR2001
	10A 3 PIN SHUTTERED SOCKET	43MRWH2002	43MRGR2002
	6A 5 PIN SHUTTERED SOCKET	43MRWH2003	43MRGR2003
	6A/16A 3 PIN COMBINED SHUTTERED SOCKET	43MRWH2004	43MRGR2004
	6A/13A UNIVERSAL SOCKET	43MRWH2005	43MRGR2005
	10A/25A 3 PIN COMBINED SHUTTERED SOCKET	43MRWH2006	43MRGR2006

ACCESSORIES RANGE

INDICATOR LAMP

PRODUCTS	ITEM TYPE	ITEM CODE - ANGEL WHITE ●	ITEM CODE - SMOKE GREY ●
	INDICATOR LAMP	43MRWH3007	
	RJ 11 SOCKET WITH SHUTTER	43MRWH3002	43MRGR3002
	RJ 45 CAT6	43MRWH3003	43MRGR3003
	RJ 45 CAT5	43MRWH3004	43MRGR3004
	20A MOTOR STARTER	43MRWH3008	43MRGR3008
	25A MOTOR STARTER	43MRWH3009	43MRGR3009
	DIMMER 400W	43MRWH3006	43MRGR3006
	DIMMER 1000W	43MRWH3015	43MRGR3015
	STEP FAN REGULATOR 1M	43MRWH3013	43MRGR3013
	HIGH SPEED REGULATOR 2M	43MRWH3014	43MRGR3014

RJ SOCKET WITH SHUTTER

MOTOR STARTER





DIMMER & REGULATOR

USB CHARGER 2.0A

TV SOCKET

DUMMY PLATE 1M

LED FOOT LIGHT

PRODUCTS	ITEM TYPE	ITEM CODE - ANGEL WHITE ●	ITEM CODE - SMOKE GREY ●
	USB CHARGER 2.0A	43MRWH3011	43MRGR3011
	TV SOCKET	43MRWH3001	43MRGR3001
	DUMMY PLATE 1M	43MRWH3005	43MRGR3005
	LED FOOT LIGHT	43MRWH3012	43MRGR3012




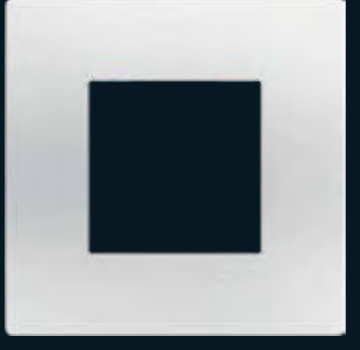
ONE
MODULE

TWO
MODULE


PLATES RANGE

MIX & MATCH TO ADD COLOURS AND STYLE TO YOUR PREFERRED SETTINGS




PRODUCTS	ITEM COLOUR	ITEM CODE	ITEM COLOUR	ITEM CODE
	● ANGEL WHITE	43MRWH4001	● CHRISTMAS RED	43MRRE4001
	● SMOKE GREY	43MRGR4001	● CLASSIC WOOD	43MR1W4001
	● Z-BLACK	43MRZB4001	● BURNT WOOD	43MR2W4001
	● SHINY SILVER	43MRSI4001	● DUSTY WOOD	43MR3W4001
	● SUN GOLD	43MRGD4001	● DESIGNER	43MR1D4001
	● ELECTRIC BLUE	43MRBL4001		
	● ANGEL WHITE	43MRWH4002	● CHRISTMAS RED	43MRRE4002
	● SMOKE GREY	43MRGR4002	● CLASSIC WOOD	43MR1W4002
	● Z-BLACK	43MRZB4002	● BURNT WOOD	43MR2W4002
	● SHINY SILVER	43MRSI4002	● DUSTY WOOD	43MR3W4002
	● SUN GOLD	43MRGD4002	● DESIGNER	43MR1D4002
	● ELECTRIC BLUE	43MRBL4002		


THREE
MODULE

PRODUCTS	ITEM COLOUR	ITEM CODE	ITEM COLOUR	ITEM CODE
	● ANGEL WHITE	43MRWH4003	● CHRISTMAS RED	43MRRE4003
	● SMOKE GREY	43MRGR4003	● CLASSIC WOOD	43MR1W4003
	● Z-BLACK	43MRZB4003	● BURNT WOOD	43MR2W4003
	● SHINY SILVER	43MRSI4003	● DUSTY WOOD	43MR3W4003
	● SUN GOLD	43MRGD4003	● DESIGNER	43MR1D4003
	● ELECTRIC BLUE	43MRBL4003		

FOUR
MODULE

	● ANGEL WHITE	43MRWH4004	● CHRISTMAS RED	43MRRE4004
	● SMOKE GREY	43MRGR4004	● CLASSIC WOOD	43MR1W4004
	● Z-BLACK	43MRZB4004	● BURNT WOOD	43MR2W4004
	● SHINY SILVER	43MRSI4004	● DUSTY WOOD	43MR3W4004
	● SUN GOLD	43MRGD4004	● DESIGNER	43MR1D4004
	● ELECTRIC BLUE	43MRBL4004		



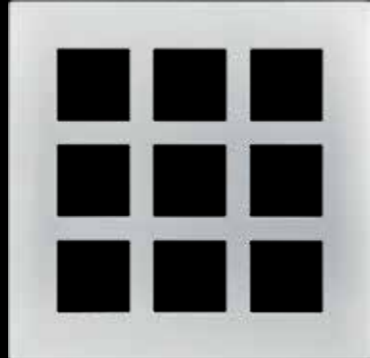
SIX
MODULE

PRODUCTS	ITEM COLOUR	ITEM CODE	ITEM COLOUR	ITEM CODE
	● ANGEL WHITE	43MRWH4005	● Z-BLACK	43MRZB4005
	● SMOKE GREY	43MRGR4005	● SHINY SILVER	43MRSI4005

EIGHT
MODULE SQ

	● ANGEL WHITE	43MRWH4006	● Z-BLACK	43MRZB4006
	● SMOKE GREY	43MRGR4006	● SHINY SILVER	43MRSI4006

EIGHT
MODULE HOR

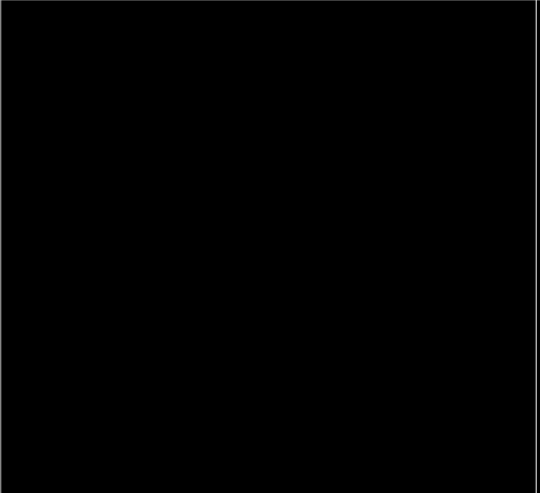
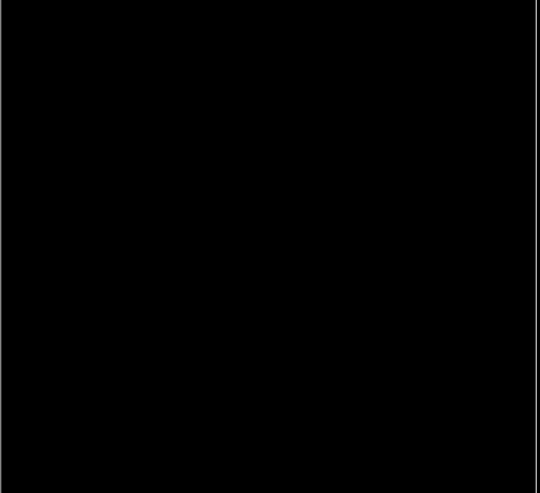
PRODUCTS	ITEM COLOUR	ITEM CODE	ITEM COLOUR	ITEM CODE
	● ANGEL WHITE	43MRWH4007	○ Z-BLACK	43MRZB4007
	○ SMOKE GREY	43MRGR4007	● SHINY SILVER	43MRSI4007
	● ANGEL WHITE	43MRWH4008	○ Z-BLACK	43MRZB4008
	○ SMOKE GREY	43MRGR4008	● SHINY SILVER	43MRSI4008
	● ANGEL WHITE	43MRWH4009	○ Z-BLACK	43MRZB4009
	○ SMOKE GREY	43MRGR4009	● SHINY SILVER	43MRSI4009

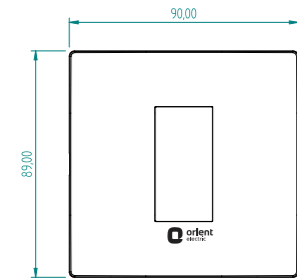
TWELVE
MODULE

EIGHTEEN
MODULE

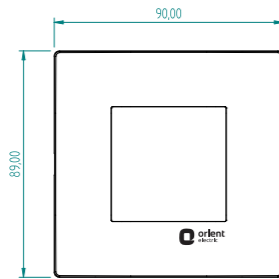
MINI MCB
SP

MINI MCB
DP

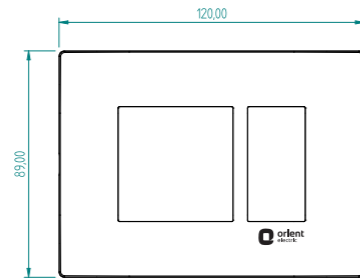
PRODUCTS	ITEM TYPE	ITEM CODE
	Single Pole C6A	251SPC0060
	Single Pole C10A	251SPC0100
	Single Pole C16A	251SPC0160
	Single Pole C20A	251SPC0200
	Single Pole C25A	251SPC0250
	Single Pole C32A	251SPC0320
	Double pole C6A	251DPC0060
	Double pole C10A	251DPC0100
	Double pole C16A	251DPC0160
	Double pole C20A	251DPC0200
	Double pole C25A	251DPC0250
	Double pole C32A	251DPC0320



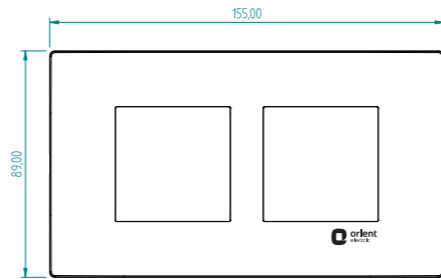
1M Outer



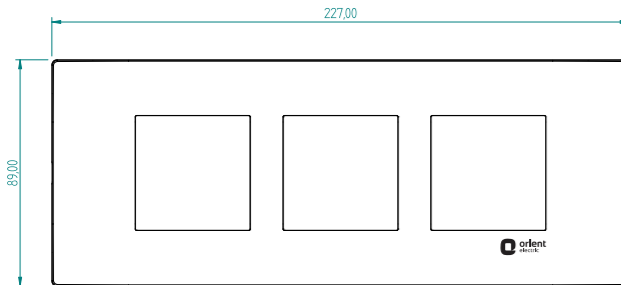
2M Outer



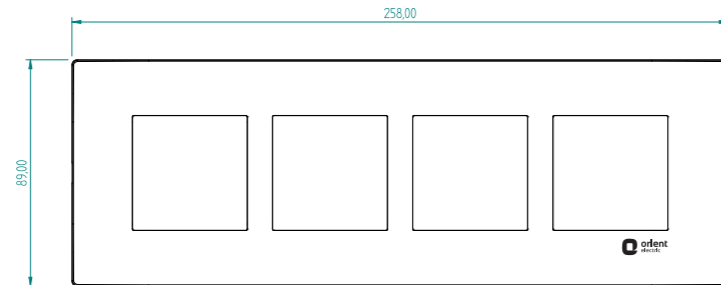
3M Outer



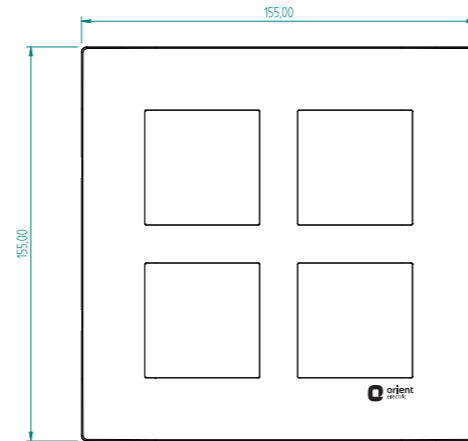
4M Outer



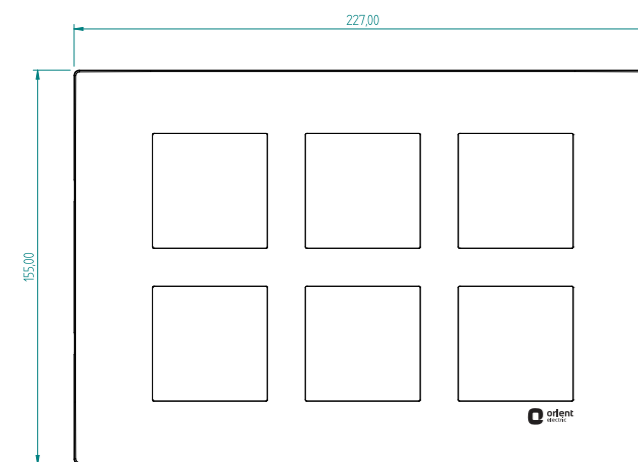
6M Outer



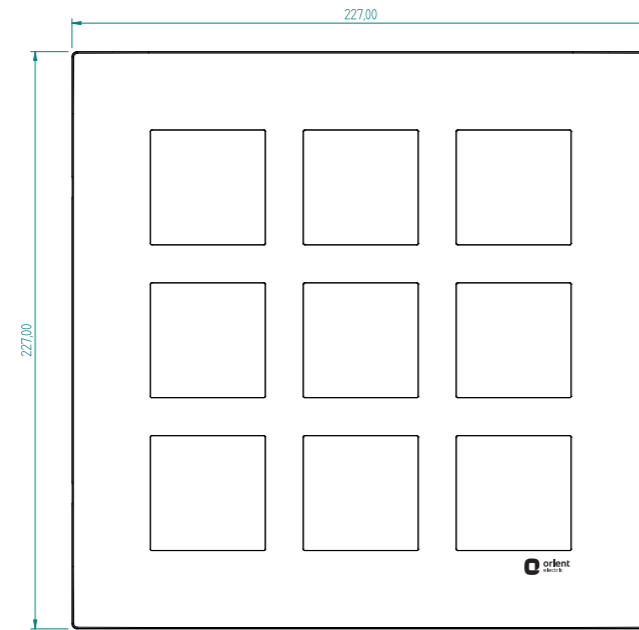
8ML Outer



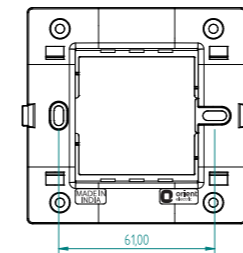
8MS Outer



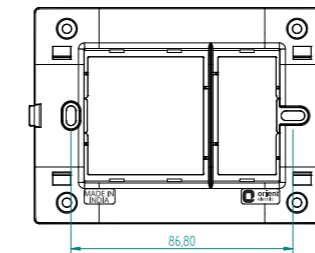
12M Outer



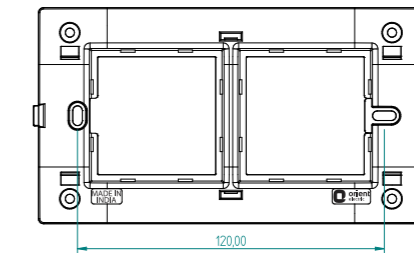
18M Outer



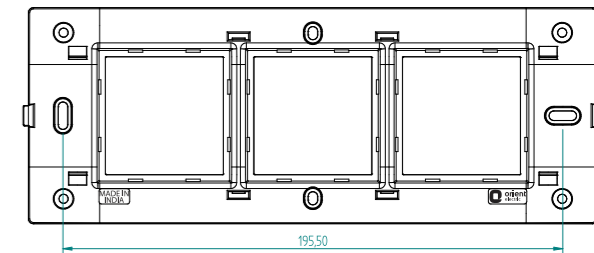
1M/2M Grid



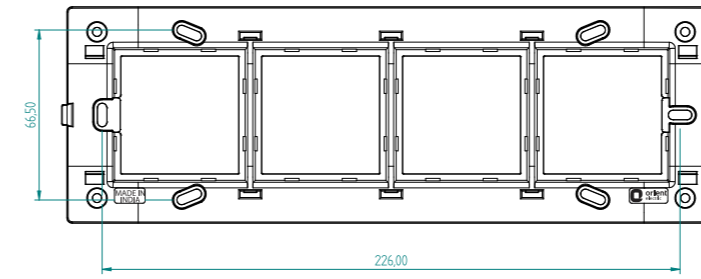
3M Grid



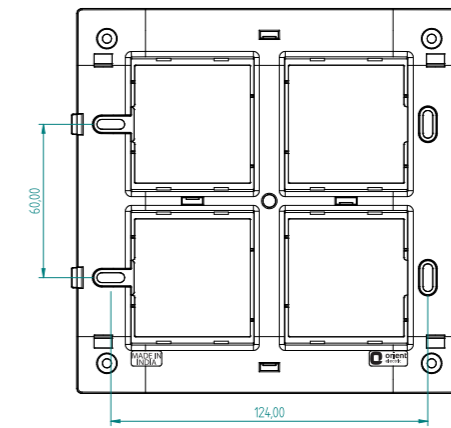
4M Grid



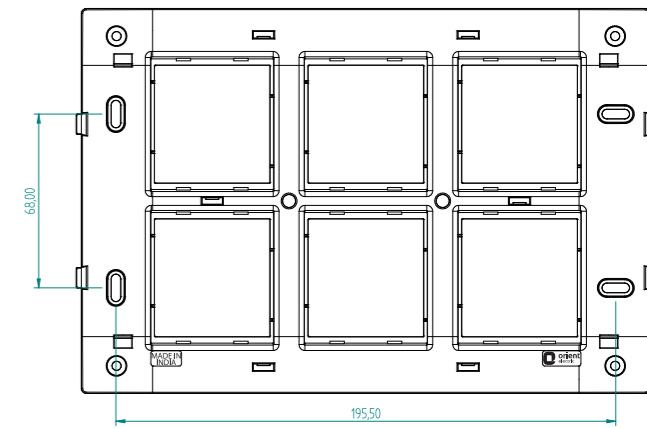
6M Grid



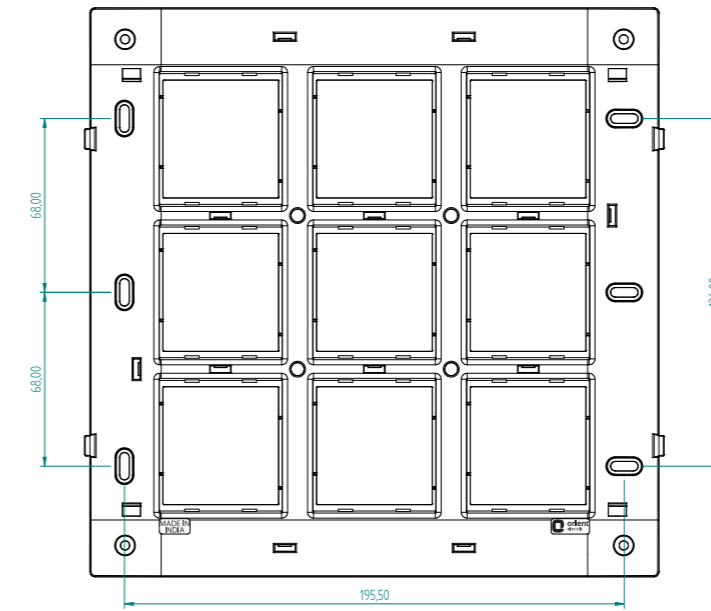
8ML Grid



8MS Grid



12M Grid

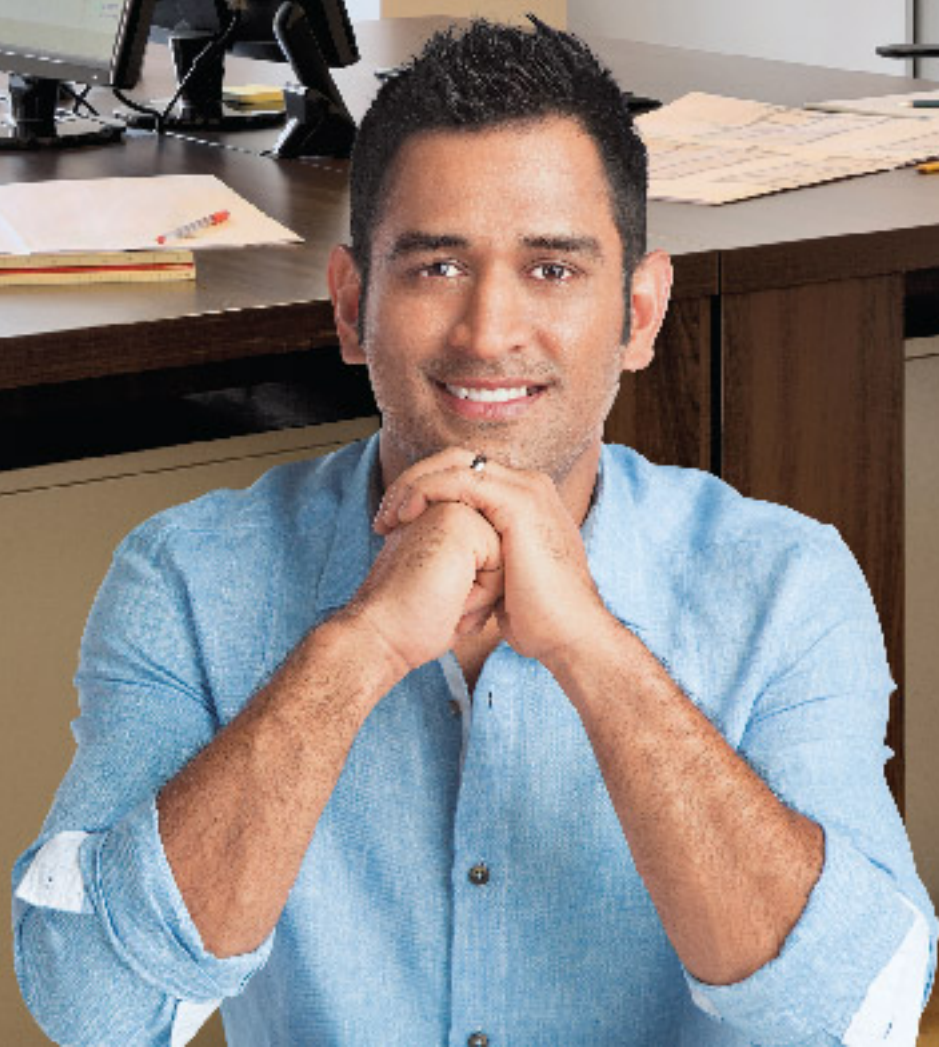


18M Grid

METAL GI BOXES

ITEM NAME	SAP FG CODE	SIZE INCH
METAL BOX 1 & 2 MODULES	44GSM00101	3X3
METAL BOX 3 MODULES	44GSM00102	4X3
METAL BOX 4 MODULES	44GSM00103	5X3
METAL BOX 6 MODULES	44GSM00104	8X3
METAL BOX 8 MODULES - HORIZONTAL	44GSM00105	9X3
METAL BOX 8 MODULES - SQUARE	44GSM00106	5X5
METAL BOX 12 MODULE	44GSM00107	8X6
METAL BOX 18 MODULES	44GSM00108	9X6

**SMART
ACCESSORIES
★★★ FOR ★★★
SAFER
LIVING**



4 Way Extension Board with Spike & Surge Protection

Features:

- 4-Universal socket specially designed to accommodate plugs of different design & types
- Heavy duty brass contact with hard spring for long life
- Heavy Duty cable for high current carrying capacity & enhanced safety
- Energy saving due to special contact design & low contact resistance
- Overload & short circuit protection with replaceable fuse
- Equipped with surge & spike protection
- Cable length suitable for convenience of connection
- Firm Grip sockets for enhanced safety
- ON/OFF switch
- Ergonomic design with appealing aesthetics

Description	Product code	Std. Pkg.
4 Way Extension Board with Spike & Surge Protection	45WR000101	10
4 Way Extension Board with Spike & Surge Protection	45WR000102	10
4 Way Extension Board with Spike & Surge Protection	45WR000103	10
4 Way Extension Board 5mtr. with Spike & Surge Protection	45WR000104	10



Code: 45WR000101



Code: 45WR000102



Code: 45WR000104



Code: 45WR000103



Compatible with
Multi-country Plug



Shock Proof
Body



Takes Heavy Load
upto 1.5 kW



Overload & Short
Circuit protection

Plug Top

Features:

- Rating: 6A, 16A & 25A
- Long-life due to heavy duty solid brass contact
- Fire retardant Polycarbonate body for enhanced safety
- Well-designed "hand gripping" for better fitment & removal
- Superior contact gripping for low watt loss & cool running
- Elegant full White colour / White with orange base to suit all types of Interiors
- LED indication as an optional feature

Description	Product code	Std. Pkg.
Plug Top 6A	45WR000201	20
Plug Top 6A with indicator	45WR000202	20
Plug Top 16A	45WR000203	20
Plug Top 16A with indicator	45WR000204	20
Plug Top 25A	45WR000205	20
Plug Top 25A with indicator	45WR000206	20



Code: 45WR000201



Code: 45WR000203



Code: 45WR000205



Code: 45WR000202



Code: 45WR000204



Code: 45WR000206

Multiplug Adaptor

Features:

- Rating: 10A
- Long-life due to heavy duty solid brass contact
- Fire retardant Polycarbonate body for enhanced safety
- Well-designed "hand gripping" for better fitment & removal
- Superior contact gripping for low watt loss & cool running
- Elegant White with Orange base to suit all types of Interiors

Description	Product code	Std. Pkg.
Multiplug Adaptor	45WR000207	20



Code: 45WR000207

Lamp Holder

Features:

- Low contact point resistance
- Brass contacts for high current capacity
- Unbreakable Polycarbonate housing with fire retardant material for safety & durability
- Metal Ring for holding of bulb to avoid breakage/damage of bulb locking
- Long-life due to heavy duty brass contact
- Elegant design to suit every interior

Description	Product code	Std. Pkg.
Lamp Holder Fancy Straight Metal Ring	45WR000301	20
Lamp Holder Fancy Angular Metal Ring	45WR000302	20
Lamp Holder Jumbo Metal Ring	45WR000303	10
Lamp Holder Metal Ring	45WR000305	50
Lamp Holder Angular Metal Ring	45WR000306	50
Lamp Holder Metal Ring	45WR000308	50
Lamp Holder Angular Metal Ring	45WR000309	50
Super Lamp Holder Metal Ring	45WR000310	32
Pendent holder	45WR000317	20



Code: 45WR000301



Code: 45WR000302



Code: 45WR000303



Code: 45WR000305



Code: 45WR000306



Code: 45WR000308



Code: 45WR000309



Code: 45WR000310



Code: 45WR000317

Lamp Holder

Features:

- Low contact point resistance
- Brass contacts for high current capacity
- Unbreakable Polycarbonate housing with fire retardant material for safety & durability
- Metal Ring for holding of bulb to avoid breakage/damage of bulb locking
- Long-life due to heavy duty brass contact
- Elegant design to suit every interior

Description	Product code	Std. Pkg.
Lamp Holder Piano Metal Ring	45WR000304	10
Rectangular Lamp Holder Flat	45WR000311	10
Rectangular Lamp Holder Flat Angular	45WR000312	10
Fancy Lamp Holder Flat	45WR000315	10
Fancy Lamp Holder Flat Angular	45WR000316	10



Code: 45WR000304



Code: 45WR000311



Code: 45WR000312



Code: 45WR000315



Code: 45WR000316

Ceiling Rose

Features:

- Brass terminal for high current capacity
- Unbreakable Polycarbonate housing with fire retardant material for safety & durability
- Elegant design to suit every interior

Description	Product code	Std. Pkg.
Ceiling Rose	45WR000307	50
Fancy Ceiling Rose Flat	45WR000313	10
Fancy Ceiling Rose Flat Round	45WR000314	10



Code: 45WR000307



Code: 45WR000313



Code: 45WR000314

Mini MCB With Encloser

Features:

- Suitable for positive isolation
- Energy Saving - Low Watt Loss
- Long life due to Copper - Silver contacts
- Enhanced safety using high quality fire retardant material
- Heat dissipating channel for superior cooling
- Trip free mechanism
- Easy to operate & install
- Overload & short circuit protection
- LED indicator of supply
- IP 40 protection
- ISI marked MCB

Description	Product code	Std. Pkg.
Mini MCB With Enclosure DP16R	171DPC0160	10
Mini MCB With Enclosure DP32R	171DPC0320	10



MCB Protected Power Board

Features:

- Elegant white colour to suit every interiors
- MCB protection against overload & short circuit
- Suitable for protection of home appliances like ACs, LCD's, & Geyser etc
- Heavy duty brass terminal for cooler running & longer life
- Well-designed Plug Top "hand gripping" for better fitment and removal
- Robust & Strong - Made up of corrosion/heat & impact resistant polycarbonate FR grade mater
- UV Stabilized for longer life & protection against de-colorization.

Description	Product code	Std. Pkg.
MCB Protected Power Board SP 16R	191SPC0160	20
MCB Protected Power Board SP 25R	191SPC0250	20
MCB Protected Power Board DP 16R	191SPC0160	20
MCB Protected Power Board DP 25R	191SPC0250	20



Notes

A series of horizontal dashed lines for writing notes.

Accolades as Glorious as our Range



orient
electric

switch to smart

Fans • Home Appliances • Lighting • Switchgear

Orient Electric Limited

(a CK Birla Group company)

D-209, Sector 63, Noida- 201301, U.P., India

Orient Helpline no.: 1800 103 7574 (Toll Free)

Email: customer.connect@orientelectric.com

Website: www.orientelectric.com

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