



SWITCHGEAR

innovating
for a **safer**
tomorrow

MY SAFETY MY CHOICE

Advanced
Switchgears
for better power
distribution,
monitoring
& control

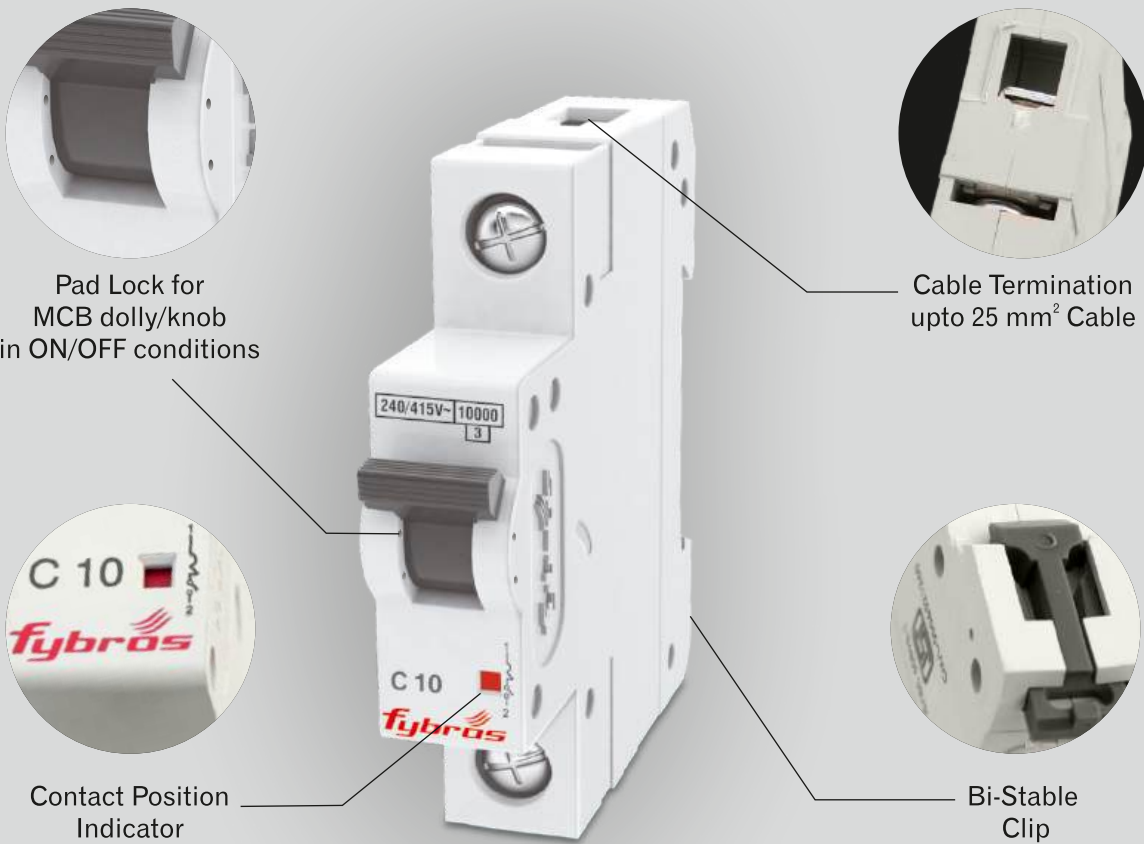


C O N T E N T S

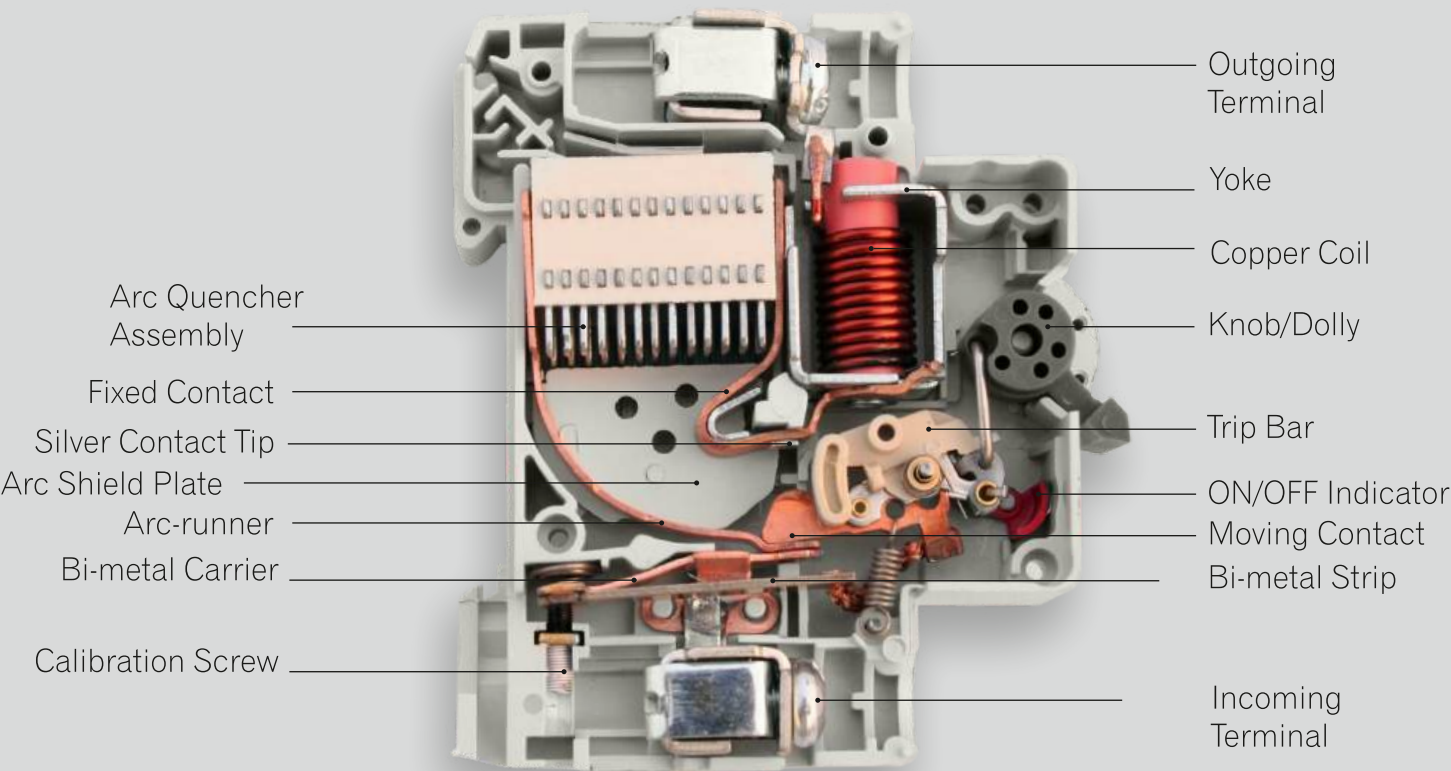
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External View



Internal View



SALIENT FEATURES

- Suitable for Reverse Feed Connections (Line and Load) & Rated Breaking Capacity 10 kA.
- Silver Graphite contact tips assure Antiweld Property.
- Snap-On-Back mounting for 35mm x 15mm symmetrical DIN rail.
- Terminals suitable for Cable + Bus bar temination.
- Do not tend to bulge or wrap, when high cross sectional cables are terminated.
- Coloured indication of switch-ON and OFF positions.
- Terminal capacity 1-25 mm² & Terminal fastening torque 2.0-2.5 Nm

MINIATURE CIRCUIT BREAKER (MCB)												
CAT. No.	RATING	TYPE	A	B	C	D	E	F	G			
KSG400201/02/03/04/05/06/300/401/402	6A-63A	SP	50	82	45.5	44.4	66.3	71.9	17.50			
KSG400601/02/03/04/05/06/700/801/802	6A-63A	SPN	50	82	45.5	44.4	66.3	71.9	35.00			
KSG401001/02/03/04/05/06/1100/1201/1202	6A-63A	DP	50	82	45.5	44.4	66.3	71.9	35.00			
KSG401401/02/03/04/05/06/1500/1601/1602	6A-63A	TP	50	82	45.5	44.4	66.3	71.9	52.50			
KSG401801/02/03/04/05/06/1900/2001/2002	6A-63A	TPN	50	82	45.5	44.4	66.3	71.9	70.00			
KSG402201/02/03/04/05/06/2300/2401/2402	6A-63A	FP	50	82	45.5	44.4	66.3	71.9	70.00			

*All dimensions in millimeter.
*Dimension may vary ± 0.5 mm.

Miniature Circuit Breaker

10 kA

C - Series



Single Pole



Single Pole - N



Double Pole

Rating / Amps.	Item Code	MRP. Per Unit (₹)	Pkg. Unit	Item Code	MRP. Per Unit (₹)	Pkg. Unit	Item Code	MRP. Per Unit (₹)	Pkg. Unit
6 Amp.	KSG400201	240.00	144	KSG400601	755.00	72	KSG401001	775.00	72
10 Amp.	KSG400202	240.00	144	KSG400602	755.00	72	KSG401002	775.00	72
16 Amp.	KSG400203	240.00	144	KSG400603	755.00	72	KSG401003	775.00	72
20 Amp.	KSG400204	240.00	144	KSG400604	755.00	72	KSG401004	775.00	72
25 Amp.	KSG400205	240.00	144	KSG400605	755.00	72	KSG401005	775.00	72
32 Amp.	KSG400206	240.00	144	KSG400606	755.00	72	KSG401006	775.00	72
40 Amp.	KSG400300	445.00	144	KSG400700	890.00	72	KSG401100	930.00	72
63 Amp.	KSG400402	505.00	144	KSG400802	1030.00	72	KSG401202	1090.00	72

Miniature Circuit Breaker

10 kA

C - Series



Three Pole



Three Pole - N



Four Pole

Rating / Amps.	Item Code	MRP. Per Unit (₹)	Pkg. Unit	Item Code	MRP. Per Unit (₹)	Pkg. Unit	Item Code	MRP. Per Unit (₹)	Pkg. Unit
6 Amp.	KSG401401	1145.00	48	KSG401801	1510.00	36	KSG402201	1560.00	36
10 Amp.	KSG401402	1145.00	48	KSG401802	1510.00	36	KSG402202	1560.00	36
16 Amp.	KSG401403	1145.00	48	KSG401803	1510.00	36	KSG402203	1560.00	36
20 Amp.	KSG401404	1145.00	48	KSG401804	1510.00	36	KSG402204	1560.00	36
25 Amp.	KSG401405	1145.00	48	KSG401805	1510.00	36	KSG402205	1560.00	36
32 Amp.	KSG401406	1145.00	48	KSG401806	1510.00	36	KSG402206	1560.00	36
40 Amp.	KSG401500	1520.00	48	KSG401900	1820.00	36	KSG402300	1825.00	36
63 Amp.	KSG401602	1810.00	48	KSG402002	2165.00	36	KSG402402	2170.00	36

Isolator



Double Pole



Three Pole



Four Pole

Rating / Amps.	Item Code	MRP. Per Unit (₹)	Pkg. Unit	Item Code	MRP. Per Unit (₹)	Pkg. Unit	Item Code	MRP. Per Unit (₹)	Pkg. Unit
25 Amp.	KSG402500	455.00	72	KSG403100	755.00	48	KSG403700	1000.00	36
40 Amp.	KSG402600	460.00	72	KSG403200	730.00	48	KSG403800	1020.00	36
63 Amp.	KSG402700	680.00	72	KSG403300	1060.00	48	KSG403900	1470.00	36
100 Amp.	KSG402900	870.00	72	KSG403500	1240.00	48	KSG404100	1630.00	36

Mini Changeover Switch



Double Pole



Four Pole

Rating / Amps.	Item Code	MRP. Per Unit (₹)	Pkg. Unit	Item Code	MRP. Per Unit (₹)	Pkg. Unit
25 Amp.	KSG404300	1220.00	72	KSG404600	2170.00	36
40 Amp.	KSG404400	1290.00	72	KSG404700	2285.00	36
63 Amp.	KSG404500	1560.00	72	KSG404800	2795.00	36



Residual Current Circuit Breaker (RCCB)



Double Pole

Rating / Amps.	Item Code	MRP. Per Unit (₹)	Sensitivity	Item Code	MRP. Per Unit (₹)	Sensitivity	Item Code	MRP. Per Unit (₹)	Sensitivity	Pkg. Unit
25 Amp.	KSG404902	2390.00	30 mA	KSG405402A	2390.00	100 mA	KSG405402B	2390.00	300 mA	72
40 Amp.	KSG405000	2390.00	30 mA	KSG405501A	2390.00	100 mA	KSG405501B	2390.00	300 mA	72
63 Amp.	KSG405100	3325.00	30 mA	KSG405601A	3175.00	100 mA	KSG405601B	3175.00	300 mA	72



Four Pole

Rating / Amps.	Item Code	MRP. Per Unit (₹)	Sensitivity	Item Code	MRP. Per Unit (₹)	Sensitivity	Item Code	MRP. Per Unit (₹)	Sensitivity	Pkg. Unit
25 Amp.	KSG405902	2965.00	30 mA	KSG406402A	2965.00	100 mA	KSG406402B	2965.00	300 mA	36
40 Amp.	KSG406000	2965.00	30 mA	KSG406501A	2965.00	100 mA	KSG406501B	2965.00	300 mA	36
63 Amp.	KSG406100	3660.00	30 mA	KSG406601A	3535.00	100 mA	KSG406601B	3535.00	300 mA	36

IS/IEC-60898, CM/L-0006521260
*3 Years warranty against any manufacturing defect.

NUEVO

Rewireable Switch Fuse (Single Break)
Change Over Switch (Off Load)



Porcelain Fuse Units

Item Code	Rating / Amps.	Type	Pkg. Unit	MRP. Per Unit (₹)
KSG2023	16A / 240V.	Pilot	120	105.00
KSG2024	16A / 415V.	Pilot	80	190.00
KSG2025	32A / 415V.	Excell	40	290.00
KSG2025H	32A / 415V.	Excell Handle Type	40	290.00
KSG2026	63A / 415V.	Excell	18	725.00
KSG2026H	63A / 415V.	Excell Handle Type	18	725.00
KSG2027	100A / 415V.	Excell	12	1355.00
KSG2028	200A / 415V.	Excell	8	2340.00
KSG2077	200A / 415V.	Fitting with legs	8	2660.00
KSG2029	300A / 415V.	Fitting with legs	3	3380.00
KSG2030	500A / 415V.	Fitting with legs	3	4210.00

TURBO SERIES				
KSG2031	63A / 415V.	Turbo	20	680.00
KSG2032	100A / 415V.	Turbo	12	1660.00
KSG2033	200A / 415V.	Turbo	8	3415.00
KSG2034	200A / 415V.	Fitting with legs	8	3955.00

Sheet Metal Cut-outs

KSG2035	16A / 240V.	40	380.00
KSG2036	32A / 415V.	20	620.00
KSG2037	63A / 415V.	6	1505.00
KSG2038	100A / 415V.	6	2255.00

HSN Code - 85365010

Reverse Forwarding Switch

Plastic Handle			
KSG2039	16A / 415V.	30	805.00
KSG2040	25A / 415V.	20	1330.00
KSG2041	32A / 415V.	20	2200.00

Metal Handle			
KSG2042	16A / 415V.	30	1000.00
KSG2043	25A - 32A / 415V.	20	1730.00

HSN Code - 85369030

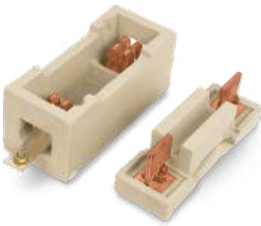
Busbar Chamber

KSG2046	32 A/415V.	4 Way	8	2570.00
KSG2047	63 A/415V.	4 Way	6	3265.00
KSG2048	100 A/415V.	4 Way	4	5125.00
KSG2049	200 A/415V. (JR)	4 Way	2	7690.00
KSG2079	200 A/415V. (SR)	4 Way	1	8345.00
KSG2080	320 A/415V.	4 Way	1	9895.00
KSG2081	400 A/415V.	4 Way	1	15065.00
KSG2082	630 A/415V.	4 Way	1	16795.00

HSN Code - 85361020

HRC Fuse Holder

KSG2073	20Amp.	120	300.00
KSG2074	32Amp.	120	385.00
KSG2075	63Amp.	80	580.00
KSG2076	125Amp.	48	1440.00



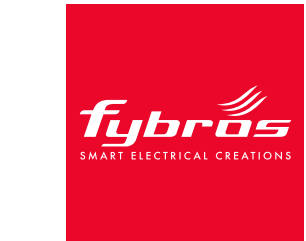
Rewireable Switch Fuse (Single Break)

Item Code	Rating / Amps.	Pkg. Unit	MRP. Per Unit (₹)
SPN			
KSG2051	16A / 240V.	18	920.00
KSG2052	32A / 240V.	8	1910.00
DP			
KSG2053	16A / 240V.	18	940.00
KSG2054	32A / 240V.	8	2040.00
KSG2078	63A / 240V.	4	5200.00
TP			
KSG2055	16A / 415V.	6	2575.00
KSG2056	32A / 415V.	4	3190.00
KSG2057	63A / 415V.	2	7640.00
KSG2058	100A / 415V.	1	15475.00
KSG2059	200A / 415V.	1	20570.00
TPN			
KSG2055(N)	16A / 415V.	6	2670.00
KSG2056(N)	32A / 415V.	4	3410.00
KSG2057(N)	63A / 415V.	2	8100.00
KSG2058(N)	100A / 415V.	1	15655.00
KSG2059(N)	200A / 415V.	1	20790.00
FP			
KSG2060	32A / 415V.	4	3720.00

HSN Code - 85362090

Change Over Switch (Off Load)

DP			
KSG2061	32A / 240V.	8	2315.00
KSG2062	63A / 240V.	4	6115.00
KSG2063	100A / 240V.	2	9690.00
TP			
KSG2064	32A / 415V.	4	2965.00
FP			
KSG2065	16A / 415V.	6	2860.00
KSG2066	32A / 415V.	4	3660.00
KSG2067	63A / 415V.	2	9695.00
KSG2068	100A / 415V.	1	15380.00
FP (Knife Type)			
KSG2069	63A / 415V.	2	15415.00
KSG2070	100A / 415V.	2	16285.00
KSG2071	200A / 415V.	1	30750.00
KSG2072	320A / 415V.	1	36095.00





ReNOVE

Rewireable Switch Fuse (Single Break)
Change Over Switch (Off Load)

ReNOVE

HSN Code - 85361020

Rewireable Switch Fuse (Single Break)

Item Code	Rating / Amps.	Pkg. Unit	MRP. Per Unit (₹)
SPN			
KSG2101	16A / 240V.	18	920.00
KSG2102	32A / 240V.	8	1910.00
DP			
KDG2103	16A / 240V.	18	940.00
KSG2104	32A / 240V.	8	2040.00
KSG2105	63A / 240V.	4	2975.00

HSN Code - 85362090
Change Over Switch (Off Load)

DP			
KSG2111	32A / 240V.	8	2190.00
KSG2112	63A / 240V.	4	5670.00

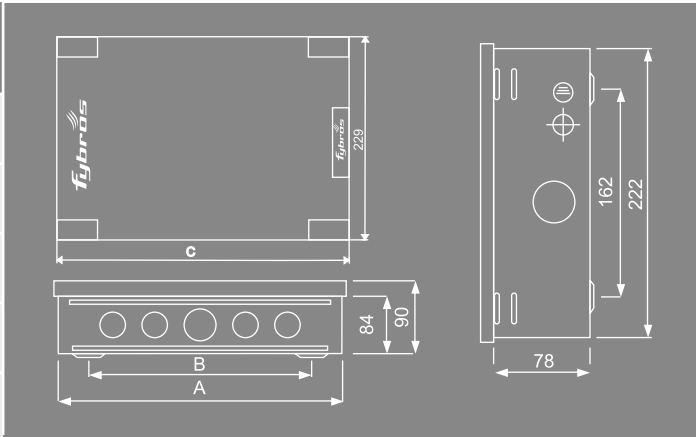




SALIENT FEATURES

- Aesthetic with MAGNETIC LOCK.
- Complete Shock Proof by earthing on door for extra protection.
- Equipped with insulated Copper Bus bar rating upto 100A that prevents short circuit current.
- Ample wiring space is provided to ensure proper distribution of Neutral and Earth wires.
- Masking sheet (Cement Guard) offers added safety by preventing cement from entering.
- IP - 43

SPN DOUBLE DOOR					ø 26+32, K'OUT TOP/BOTTOM	ø 32, K'OUT LH/RH SIDE
No. of Ways	CAT. No.	A	B	C		
4	KDB3310	149	89	179	(2+1) / (2+1) Nos.	1 / 1 No.
6	KDB3311	172	112	202	(2+1) / (2+1) Nos	1 / 1 No.
8	KDB3312	249	189	279	(2+1) / (2+1) Nos	1 / 1 No.
12	KDB3313	321	261	351	(4+1) / (4+1) Nos	1 / 1 No.
16	KDB3314	393	333	423	(4+1) / (4+1) Nos	1 / 1 No.



Distribution Board

Item Code	No. of Ways	To Accommodate Incoming + Outgoing	Pkg. Unit	MRP. Per Unit (₹)
MCB ENCLOSURE				
KDB3301	1	1	40	280.00
KDB3302	2	2	40	280.00
KDB3303	3	3	24	375.00
KDB3304	4	4	24	375.00
SPN - SD		Sheet Steel Enclosures for Flush/Surface Mounting with Bus Bars Neutral Links & Earth Bar (Without MCB's)		
KDB3306	6	6	16	840.00
KDB3307	8	8	12	960.00
KDB3308	12	12	10	1310.00
KDB3309	16	16	10	1465.00
SPN - DD		Sheet Steel Enclosures with Double Door, Detachable Gland Plates for Flush/Surface Mounting with Bus Bars Neutral Links & Earth Bar (Without MCB's)		
KDB3310	4	4	8	1730.00
KDB3311	6	6	8	2045.00
KDB3312	8	8	6	2400.00
KDB3353	10	10	6	2675.00
KDB3313	12	12	4	2930.00
KDB3314	16	16	4	3510.00
TPN - DD		Sheet Steel Enclosures with Double Door, Detachable Gland Plates for Flush/Surface Mounting for MCB's fitted with Bus Bars Neutral Links & Earth Bar (Without MCB's)		
KDB3315	4	6+12	4	4830.00
KDB3316	6	8+18	2	5530.00
KDB3317	8	8+24	2	6505.00
KDB3318	12	8+36	2	8440.00
PHASE SELECTOR - DD		Sheet Steel Enclosures with Double Door, Detachable Gland Plates for Flush/Surface Mounting for MCB's fitted with Bus Bars Neutral Links & Earth Bar (Without MCB's)		
KDB3319	4	6+12	3	6040.00
KDB3320	4 (with 40 Amp. Rotary Switches & Wiring)	6+12	3	10885.00
KDB3321	4 (with 63 Amp. Rotary Switches & Wiring)	6+12	3	10970.00
KDB3325	6	8+18	2	7715.00
KDB3326	6 (with 40 Amp. Rotary Switches & Wiring)	8+18	2	13750.00
KDB3327	6 (with 63 Amp. Rotary Switches & Wiring)	8+18	2	14770.00
KDB3328	8	8+24	2	8905.00
KDB3329	8 (with 40 Amp. Rotary Switches & Wiring)	8+24	2	15070.00
KDB3330	12	8+36	2	11090.00
KDB3331	12 (with 63 Amp. Rotary Switches & Wiring)	8+36	2	19285.00



Phase Selector Changeover

Item Code	Rating	Pkg. Unit	MRP. Per Unit (₹)
KDB3332	25 / 32 Amp.	8	930.00
KDB3333	40 / 63 Amp.	8	1225.00
KDB3334	32 Amp. (With Rotary Switches & Wiring)	8	5315.00
KDB3335	40 Amp. (With Rotary Switches & Wiring)	8	7075.00
KDB3336	63 Amp. (With Rotary Switches & Wiring)	8	7595.00



Plug & Socket Enclosures

In Sheet Steel Enclosures (Without MCB's)			
KDB3337	20 Amp. SPN (AC Box)	(With Plug & Socket and Provision for SP MCB)	201020.00
KDB3341	20 Amp. SPN Enclosure		40415.00
KDB3342	20 Amp. SPN Enclosure	(With Plug & Socket)	30925.00



Metal Clad Plug & Sockets

KDB3343	20 Amp.	2 P + E Plug	160250.00
KDB3346	20 Amp.	2 P + E Socket	160250.00



Cam Operated Rotary Switch

KDB3349	25 Amp.	80	535.00
KDB3350	32 Amp.	80	670.00
KDB3351	40 Amp.	40	845.00
KDB3352	63 Amp.	40	950.00





METAL BASE

Item Code	No. of Ways	To Accommodate Incoming + Outgoing	Pkg. Unit	MRP. Per Unit (₹)
SPN - DD				
KDB3211	4	4	8	1745.00
KDB3212	6	6	8	2000.00
KDB3213	8	8	6	2220.00
KDB3214	12	12	4	2770.00
KDB3215	16	16	4	3375.00



METAL BASE

Item Code	No. of Ways	To Accommodate Incoming + Outgoing	Pkg. Unit	MRP. Per Unit (₹)
TPN - DD				
KDB3216	4	4 + 12	3	3895.00



PLASTIC BASE

Item Code	No. of Ways	To Accommodate Incoming + Outgoing	Pkg. Unit	MRP. Per Unit (₹)
SPN - DD				
KDB3217	4	4	8	1465.00
KDB3218	6	6	8	1700.00
KDB3219	8	8	6	1915.00
KDB3220	12	12	4	2495.00
KDB3221	16	16	4	2995.00





HSN Code - 85371000

Distribution Boards



SALIENT FEATURES :

- Aesthetic look of Plastic & Metal Combination.
- Complete Shock Proof by base box earthing.
- Ample wiring Space is provided to ensure proper distribution of Neutral and Earth Wires.

Item Code	No. of Ways	To Accommodate Incoming + Outgoing	Pkg. Unit	MRP. Per Unit (₹)
SPN - DD Sheet Steel Enclosures with Double Door, Detachable Gland Plates for Flush/Surface Mounting with Bus Bars Neutral Links & Earth Bar (Without MCB's)				
KDB3411	4	4	12	1080.00
KDB3412	6	6	12	1250.00
KDB3413	8	8	10	1440.00
KDB3414	10	10	10	1595.00
KDB3415	12	12	8	1780.00
KDB3416	16	16	8	2135.00

Item Code	No. of Ways	To Accommodate Incoming + Outgoing	Pkg. Unit	MRP. Per Unit (₹)
TPN - DD Sheet Steel Enclosures with Double Door, Detachable Gland Plates for Flush/Surface Mounting with Bus Bars Neutral Links & Earth Bar (Without MCB's)				
KDB3417	4	4+12	4	3355.00
KDB3418	6	4+18	2	4270.00
KDB3419	8	4+24	2	4770.00
KDB3420	12	4+36	2	6115.00



HSN Code - 85371000

Distribution Boards

Item Code	No. of Ways	To Accommodate Incoming + Outgoing	Pkg. Unit	MRP. Per Unit (₹)
MCB ENCLOSURE				
KDB3079	1		40	260.00
KDB3080	2		40	260.00
KDB3081	3		24	365.00
KDB3082	4		24	365.00

SPN - SD

Sheet Steel Enclosures for Flush/Surface Mounting with Bus Bars Neutral Links & Earth Bar (Without MCB's)

KDB3083	4	4	24	590.00
KDB3084	6	6	20	715.00
KDB3085	8	8	16	805.00
KDB3086	10	10	16	935.00
KDB3087	12	12	12	1050.00
KDB3088	16	16	12	1310.00

SPN - DD

Sheet Steel Enclosures with Double Door, Detachable Gland Plates for Flush/Surface Mounting with Bus Bars Neutral Links & Earth Bar (Without MCB's)

KDB3089	4	4	12	1080.00
KDB3090	6	6	12	1250.00
KDB3091	8	8	10	1440.00
KDB3092	10	10	10	1595.00
KDB3093	12	12	8	1780.00
KDB3094	16	16	8	2135.00

TPN - DD

Sheet Steel Enclosures with Double Door, Detachable Gland Plates for Flush/Surface Mounting for MCB's fitted with Bus Bars Neutral Links & Earth Bar (Without MCB's)

KDB3098	4	4+12	4	3040.00
KDB3099	6	6+18	2	3610.00
KDB3100	8	8+24	2	4240.00
KDB3103	12	8+36	2	5290.00

ENCLOSURE

KDB3101	Rotary Box		20	785.00
KDB3102	MCCB Box		5	1510.00
KDB3104	Rotary Box with indicator		20	920.00

PHASE SELECTOR - DD

KDB3105	4 (without Rotary Switches & Wiring)	4+12	2	4200.00
KDB3106	4 (with 40 Amp. Rotary Switches & Wiring)	4+12	2	8160.00
KDB3107	4 (with 63 Amp. Rotary Switches & Wiring)	4+12	2	8515.00
KDB3108	6 (without Rotary Switches & Wiring)	6+18	2	4800.00
KDB3109	6 (with 40 Amp. Rotary Switches & Wiring)	6+18	2	8760.00
KDB3110	6 (with 63 Amp. Rotary Switches & Wiring)	6+18	2	9120.00





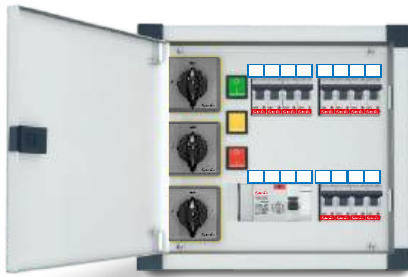
Distribution Boards

HSN Code - 85371000

Item Code	No. of Ways	To Accommodate Incoming + Outgoing	Pkg. Unit	MRP. Per Unit (₹)
SPN - DD				
Sheet Steel Enclosures with Double Door, Detachable Gland Plates for Flush/Surface Mounting with Bus Bars Neutral Links & Earth Bar (Without MCB's)				
KDB3035	4	4	8	1535.00
KDB3036	6	6	8	1885.00
KDB3037	8	8	6	2095.00
KDB3038	12	12	6	2525.00
KDB3039	16	16	4	3020.00
KDB3040	10	10	6	2225.00



PHASE SELECTOR - DD					(Without MCB's)
KDB3050 (JR)	4	(without Rotary Switches & Wiring)	4+12	3	4880.00
KDB3051 (JR)	4	(with 40 Amp. Rotary Switches & Wiring)	4+12	3	9545.00
KDB3052 (JR)	4	(with 63 Amp. Rotary Switches & Wiring)	4+12	3	10160.00
KDB3053 (JR)	6	(without Rotary Switches & Wiring)	6+18	2	6125.00
KDB3054 (JR)	6	(with 40 Amp. Rotary Switches & Wiring)	6+18	2	10385.00
KDB3055 (JR)	6	(with 63 Amp. Rotary Switches & Wiring)	6+18	2	11015.00
KDB3056 (SR)	4/6	(without Rotary Switches & Wiring)	6+18	2	6150.00
KDB3057 (SR)	4/6	(with 40 Amp. Rotary Switches & Wiring)	6+18	2	10600.00
KDB3058 (SR)	4/6	(with 63 Amp. Rotary Switches & Wiring)	6+18	2	12215.00



Meter Box (Enclosure)

KDB3023	32 Amp. SPN	3	3070.00
KDB3024	63 Amp. TPN	2	5070.00



RéNOVE
Mini DP MCB With Enclosure



HSN Code - 85362020



INDICATION OF SUPPLY

HEAT VENTILATION

OVERLOAD & SHORT
CIRCUIT PROTECTION

SALIENT FEATURES :

- Compact & elegant enclosure
- Safety assured
- Protection from overload & short circuit
- Breaking capacity, 3ka
- Sleek power supply indication
- Quick & easy installation
- 32 Amp 240V - 50 Hz
- C-Curve type MCB

ITEMCODE	DESCRIPTION	Pkg. Unit	MRP. Per Unit (₹)
KSG 2301	RéNOVE Mini DP MCB With Enclosure	100	550.00

MINIATURE CIRCUIT BREAKER (MCB)

Rating / Amps.	Application of MCB's with Different Characteristic
6 Amps	For Standard Lighting Circuits - Upto 800W
10 Amps	Large lighting circuits- these are becoming rare in domestic settings as a result of changes in technological trends tending towards lower lighting sources such as LED. - Upto 1600W
16 Amps 20 Amps	Usually these two ratings are used in boilers and heaters depending on the power rating. - Upto 4000W
25 Amps 32 Amps	Final Ring - The technical term for A power circuit or sockets. A two-bedroom apartment, for example, can have 2 X 32A power circuits to separate downstairs and upstairs sockets. Larger apartments can have any number of 32 A circuits. - Upto 6500W
40 Amps	Cookers / Electric Hobs / Small Showers - Upto 8000W
63 Amps	10kw Electric Showers / Hot Tubs / Welding Machine, X-ray Machine, Freezers - Upto 10000W

Formula of Load Calculation

Incoming Rating : Single Phase	Incoming Rating : Three Phase
$I \text{ (Amp)} = \frac{\text{Total Load in Watts}}{230 \text{ Volts}}$	$I \text{ (Amp)} = \frac{\text{Total Load in Watts}}{\sqrt{3} \times 415 \text{ Volts}}$

Value of $\sqrt{3}$ = 1.734

NOTES

Residual Current Circuit Breaker - (RCCB)

Effects of Electric Current Through Human Body

A human being is able to sustain an electric shock up to 30 mA (Muscle contraction) and the extent of 30 mA and 100mA or more will provide protection against fire risks, but will not provide full personal protection (Cardiac fibrillation) and extent of 300 mA to 500 mA & more will be cause of immediate heart attack leading to death (1000 mA – 1 Amp).

Sensitivity Application Selection Criteria

SENSITIVITY		APPLICATION
30 mA		Protection against direct current contact with human body (Human Protection). Muscle contraction can Pull & cause of respiratory paralysis.
100 mA		Protection against direct and indirect current contact with human body (Machine Protection) Cardiac fibrillation and can be get fatal.
300 mA		Preventing Building fire hazards and direct contact with human body (Building/Fire Protection) Immediate heart attack and can be death.



IP Ratings

The IP (Ingress Protection) rating given to an enclosure states the degree of protection it offers by means of two digits. A summary of these is shown below, for a more detailed defection, see IS/IEC 60947-1:2007.

First Numeral

Protection against ingress of solid objects		
IP	Requirements	Example
0	No protection	
1	Full penetration of 50 mm diameter sphere not allowed. Contact with hazardous parts no permitted.	
2	Full penetration of 12.5 mm diameter sphere not allowed. The jointed test finger shall have adequate clearance from hazardous parts.	
3	The access probe of 2.5 mm diameter shall not penetrate	
4	The access probe 1.0 mm diameter shall not penetrate	
5	Limited ingress of dust permitted (no harmful deposit)	
6	Totally Protected against ingress dust	

Second Numeral

Protection against ingress of solid objects		
IP	Requirements	Example
0	No protection	
1	Protected against vertically falling drops of water limited ingress permitted	
2	Protected against vertically falling drops of water with enclosure tilted 15° from the vertical limited ingress permitted.	
3	Protected against direct sprays of water up to 60° from the vertical Limited ingress permitted	
4	Protected against splashed from all directions limited ingress permitted	
5	Protected against jets of water limited ingress permitted	
6	Protected against strong jets of water e.g. for use on ship decks - limited ingress permitted	
7	Protected against the effect of immersion between 15cm and 1m.	
8	Protected against long periods of immersion under pressure	

c o m p l e t e s a f e t y



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SAFETY BACKED WITH A STYLE STATEMENT

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NORTH



DELHI

166, Functional Industrial Estate,
Patparganj, DELHI - 110092

UTTAR PRADESH

Khasra No. 6 KH, Plot No: 03,
Dehra MG Road, Opp: Coca Cola,
Dhaulana, Hapur, UTTAR PRADESH - 245101.

92/190, 1st Floor, Bhaskar Complex,
Adjacent Hotel S.P. International
Gautam Buddha Marg,
LUCKNOW - 226018

RAJASTHAN

F18-A/2, Road No.2,
Vishwakarma Industrial Area,
JAIPUR - 302013



SOUTH

TAMILNADU

12/42, Taylors Road,
Kilpauk, CHENNAI - 600010

KERALA

Kudiyirickal Towers, First Floor,
Palarivattom, Edappally Road,
ERNAKULAM - 682025

KARNATAKA

28, Off Mysore Road
Suder Industrial Estate
New Timber Yard Layout
BANGALURU - 560026

GOA

121, Nagarathpet Main Road,
Near Kalamma Temple,
BANGALURU - 560002

GUJARAT

410 Sub Plot Number 69/2/3
Balaji Estate B/H Moni Hotel
Narol - Naroda Highway Isanpur
AHMEDABAD - 382443

First Floor, Shop No. 82-1,
Paras Chambers, JEAN Compound,
SURENDRANAGAR - 363002

MAHARASHTRA

Gala No. 9 & 10, Blue Bell Imperial
Manas Industrial Hub,
Opp. Chinchpada, Valiv Road,
Vasai East, PALGHAR - 401208

EAST



WEST BENGAL

Flat No. 2F, Crescent Tower,
229 AJC Bose Road, KOLKATA - 700020

Plot No. 1369, Sankrail Industrial Park
Dhulagarh, Dist Howrah
KOLKATA - 711302

30, Sevok Road, Santdeep Building
2nd Floor, SILIGURI - 734001

BIHAR

Shree Mahavira Logistics, Gopalpur Sampatchak,
Patna Gaya Road, PATNA - 800008

Jindal House Building, P. K Sahi Lane, 5th Floor
S. P Verma Road, PATNA-800001

JHARKHAND

Plot No. - 326, Mother Dairy Road,
Tikratoli, Tundiul, RANCHI - 835303,

ASSAM

Dhiraj Tumung Compund,
Dag No. 102, Pamohi - DPS Road
GUWAHATI - 781035

House No - 06, Rangamancha Path,
Rukmininagar, GUWAHATI - 781006

ODISHA

No.: C/3, Old Industrial Estate
Jagatpur, CUTTACK - 754021

Balar Marketing Pvt. Ltd.
J-48 & J-49, Sector-63, Noida,
Gautam Buddha Nagar,
UTTAR PRADESH - 201301

Balar Marketing Pvt. Ltd.
217, Functional Industrial Estate,
Patparganj, DELHI - 110 092

Fybras Moddular Pvt. Ltd.
205, 2nd floor,
Orbit Industrial Estate,
Chincholi Bunder Road,
Malad (W) MUMBAI- 400064

Balar Marketing Pvt. Ltd.
12/42, Taylors Road,
Kilpauk, CHENNAI - 600010

H.O.



Our Footprints Across India

WEST





BALAR MARKETING PVT. LTD.

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Website: www.fybros.com
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