



A VERSATILE &
RELIABLE SOLUTION
— optipro[™] SMDB —
CATALOGUE

—optipro™ SMDB—

(Sub-Main Distribution Board)

Optipro SMDB is used for distributing electrical power supplies of up to 630A. It is equipped with over current protection device i.e MCCB, both as an incomer and multiple outgoing ways. In addition to safe & reliable distribution, the range meets the demands within modern commercial buildings, public buildings, educational institutes, hospitals, manufacturing units & also address the application requirement's such as energy management & metering.

These factory-built assemblies are manufactured at our plant which has ISO-9001 & ISO-450001 certification

This all new range is certified as per IEC 61439 - 1 & 2 from NABL accredited laboratory. The modular design offers easy handling and fast installation. Busbar assembly is suitable for high short circuit withstanding current (Icw) upto 50kA/1sec. The range features bus bar rating upto 630A, outgoing devices upto 250A & has an option to metering the incoming supply. Optipro SMDB has enough space that ensures easy maintenance and cabling work. It also offers high performance protection of commercial and industrial buildings, with the availability of add-on enclosures such as metering unit, multiple-cable alleys and corner unit.





Main Features :

- Highly reliable & tested solution as per IEC 61439-1 & 2 from a NABL accredited laboratory
- 3 frame Sizes: SMDB250, SMDB400 & SMDB630
- Modular, versatile solution accommodate different sizes & configuration to meet application needs
- Wide range: 4W / 6W / 8W / 12W
- Configurations available in both 3P / 4P & SD / DD
- Suitable to install fixed or adjustable type MCCB's
- Copper bus-bars can withstand high SC current up to 50kA / 1sec
- Digital meters (A&V) are provided along with phase indicators as standard
- Option to add MFM & Annunciator in metering unit
- Padlocking at main door, facilitates more safety, by avoiding the access of unauthorized person
- Degree of protection: IP43 in Double Door & IP30 in Single Door design
- Mechanical Impact strength: IK09
- Shrouding at the busbars prevents accidental contact with the LIVE parts
- Isolated 100% Neutral is provided on both sides
- To avoid shocks, solid earthing is provided on the every hinged door to complete the circuit
- Ample space in enclosure, helps during termination & maintenance work

Compliance :

SMDB:

IEC 61439 1 & 2
IEC 60529

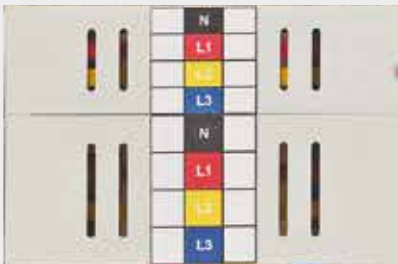
MCCB:

IEC 60947-2

Range :

SMDB 250
SMDB 400
SMDB 630

Standard finish has epoxy
powder coating in 7541C pantone shade

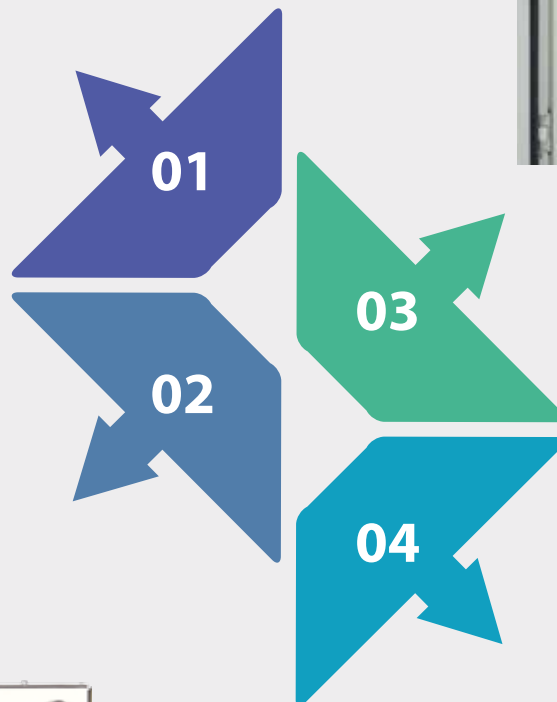


The busbar assembly is fully covered behind the moulded shrouds, providing high user safety.



Shrouding at busbars prevents the accidental contact with the LIVE parts

Metering unit comprises of digital ammeter & voltmeter along with phase indicators on the front side as standard



Padlocking on main door facilitates more safety. Door locks with inbuilt handles are also provided on all additional units for ease access





IP43 degree of protection is available with Double Door enclosure

In Optipro SMDB, separate earth bar & Isolated neutral bars are provided on both sides, with required termination points to simplify the connections



Separate shield are provided on incomer & outgoing MCCB's that offers IP20 protection even after opening of main door. This also enhances the safety during maintenance work on incomer or outgoing circuit

To avoid shocks, solid earthing is provided on the every hinged door to complete the circuit



Removable gland plates (on top, bottom & both sides) are provided, eases the entry of cables & fitment of accessories

Easy to accommodate the different frame sizes of MCCB's to meet application needs



Technical Details

Technical Specification of Optipro SMDB				
S.No.	Features	Fixed type MCCB's		
		250A	400A	630A
1	Ref. Standard	as per IEC 61439-2		
2	Pan assembly material	Tinned Copper	Tinned Copper	Tinned Copper
3	Pan assembly nominal rating	250A	400A	630A
4	Rated operation voltage (Ue)	415V	415V	415V
5	Rated frequency (Hz)	50Hz	50Hz	50Hz
6	Neutral & earth bar Capacity	N:100% of Phase & Earth : 50% of Phase	N:100% of Phase & Earth : 50% of Phase	N:100% of Phase & Earth: 50% of Phase
7	Rated insulation voltage (Ui)	690V	690V	690V
8	Ambient temperature	40°C	40°C	40°C
9	Incomer MCCB rating	up to 250A	up to 400A	up to 630A
10	Incomer MCCB poles	TP/FP	TP/FP	TP/FP
11	Outgoing MCCB Frames	up to 125A	up to 125A	up to 250A
12	Outgoing MCCB Poles	TP/FP	TP/FP	TP/FP
13	No. of Ways	4, 6, 8 & 12 Way	4, 6, 8 & 12 Way	4, 6, 8 & 12 Way
14	Ingress Protection	IP30/IP43	IP30/IP43	IP30/IP43
15	Mechanical Strength	IK09	IK09	IK09
16	Indication lamp	ON/OFF (Optional)	ON/OFF (Optional)	ON/OFF (Optional)
17	Metering	Digital (Optional)	Digital (Optional)	Digital (Optional)
18	Cable entry	Bottom	Bottom	Bottom
19	Optional Accessories	Cable alleys (sides and bottom and corner units)	Cable alleys (sides and bottom and corner units)	Cable alleys (sides and bottom and corner units)
20	Mounting	Wall mounting		

Technical Specification of Optipro SMDB

Adjustable type MCCB's

250A

400A

630A

as per IEC 61439-2

Tinned Copper

Tinned Copper

Tinned Copper

250A

400A

630A

415V

415V

415V

50Hz

50Hz

50Hz

N:100% of Phase &
Earth : 50% of Phase

N:100% of Phase &
Earth : 50% of Phase

N:100% of Phase &
Earth: 50% of Phase

690V

690V

690V

40°C

40°C

40°C

upto 250A

upto 400A

up to 630A

TP/FP

TP/FP

TP/FP

upto 125A

upto 125A

up to 250A

TP/FP

TP/FP

TP/FP

4,6,8 & 12 Way

4,6,8 & 12 Way

4,6,8 & 12 Way

IP30/IP43

IP30/IP43

IP30/IP43

IK09

IK09

IK09

ON/OFF (Optional)

ON/OFF (Optional)

ON/OFF (Optional)

Digital (Optional)

Digital (Optional)

Digital (Optional)

Bottom

Bottom

Bottom

Cable alleys (sides and
bottom and corner units)

Cable alleys (sides and
bottom and corner units)

Cable alleys (sides and
bottom and corner units)

Wall mounting

Optipro SMDB Catalogue References

SMDB 250				TP (Single Door)	FP (Single Door)
SMDB 250 - Incomer	Ways	Outgoing Configuration		SMDB Main Encl. Cat. Refs.	SMDB Main Encl. Cat. Refs.
Optium F2 MCCB	4W	F1-4	-	812100	812105
	6W	F1-6	-	812101	812106
	8W	F1-8	-	812102	812107
	12W	F1-12	-	812103	812108
SMDB 250				TP (Single Door)	FP (Single Door)
SMDB 250 - Incomer	Ways	Outgoing Configuration		SMDB Main Encl. Cat. Refs.	SMDB Main Encl. Cat. Refs.
Optium F3 MCCB	4W	F1-4	-	812110	812115
	6W	F1-6	-	812111	812116
	8W	F1-8	-	812112	812117
	12W	F1-12	-	812113	812118
SMDB 400				TP (Single Door)	FP (Single Door)
SMDB 400 - Incomer	Ways	Outgoing Configuration		SMDB Main Encl. Cat. Refs.	SMDB Main Encl. Cat. Refs.
Optium F4(400A) MCCB	4W	F1-4	-	812120	812128
	6W	F1-6	-	812121	812129
	8W	F1-8	-	812122	812130
	12W	F1-12	-	812123	812131
SMDB 630				TP (Single Door)	FP (Single Door)
SMDB 630- Incomer	Ways	Outgoing Configuration		SMDB Main Encl. Cat. Refs.	SMDB Main Encl. Cat. Refs.
Optium F4(630A) MCCB	4W	F1-4	-	812136	812144
	6W	F1-6	-	812137	812145
	8W	F1-8	-	812138	812146
	12W	F1-12	-	812139	812147
	8W	F1-6	F2-2	812140	812148
	12W	F1-10	F2-2	812142	812150

Optipro SMDB Catalogue References

SMDB 250				TP (Double Door)	FP (Double Door)
SMDB 250 - Incomer	Ways	Outgoing Configuration		SMDB Main Encl. Cat. Refs.	SMDB Main Encl. Cat. Refs.
Optium F2 MCCB	4W	F1-4	-	812181	812186
	6W	F1-6	-	812182	812187
	8W	F1-8	-	812183	812188
	12W	F1-12	-	812184	812189
SMDB 250				TP (Double Door)	FP (Double Door)
SMDB 250 - Incomer	Ways	Outgoing Configuration		SMDB Main Encl. Cat. Refs.	SMDB Main Encl. Cat. Refs.
Optium F3 MCCB	4W	F1-4	-	812191	812196
	6W	F1-6	-	812192	812197
	8W	F1-8	-	812193	812198
	12W	F1-12	-	812194	812199
SMDB 400				TP (Double Door)	FP (Double Door)
SMDB 400 - Incomer	Ways	Outgoing Configuration		SMDB Main Encl. Cat. Refs.	SMDB Main Encl. Cat. Refs.
Optium F4(400A) MCCB	4W	F1-4	-	812201	812209
	6W	F1-6	-	812202	812210
	8W	F1-8	-	812203	812211
	12W	F1-12	-	812204	812212
SMDB 630				TP (Double Door)	FP (Double Door)
SMDB 630 - Incomer	Ways	Outgoing Configuration		SMDB Main Encl. Cat. Refs.	SMDB Main Encl. Cat. Refs.
Optium F4(630A) MCCB	4W	F1-4	-	812217	812225
	6W	F1-6	-	812218	812226
	8W	F1-8	-	812219	812227
	12W	F1-12	-	812220	812228
	8W	F1-6	F2-2	812221	812229
	12W	F1-10	F2-2	812223	812231

Optipro SMDB Catalogue References

Description				Cat. Refs. (Single Door)	Cat. Refs. (Double Door)
Bottom Cable Entry Unit(SMDB 250,SMDB400 & SMDB630 with F1 o/g only)				812152	812233
Bottom Cable Entry Unit(for SMDB400 & SMDB630, with F1 & F2 o/g)				812153	812234
Left/Right Cable Alley (SMDB 250A) ;	Ways	Outgoing Configuration		Cat. Refs. (Single Door)	Cat. Refs. (Double Door)
	4W	F1-4	-	812154	812235
	6W	F1-6	-	812155	812236
	8W	F1-8	-	812156	812237
	12W	F1-12	-	812157	812238
Left/Right Cable Alley(SMDB 400A/SMDB 630A I/C) ;	Ways	Outgoing Configuration		Cat. Refs. (Single Door)	Cat. Refs. (Double Door)
	4W	F1-4	-	812159	812240
	6W	F1-6	-	812160	812241
	8W	F1-8	-	812161	812242
	12W	F1-12	-	812162	812243
	8W	F1-6	F2-2	812163	812244
	12W	F1-10	F2-2	812165	812246
Metering Unit with AV&I (for SMDB250,SMDB400 & SMDB630,with F1 o/g only)				812167	812248
Metering Unit with AV&I (for SMDB400 & SMDB630 ,with F1 & F2 o/g)				812168	812249
Metering Unit with MFMA&I (for SMDB250,SMDB400 & SMDB630,with F1 o/g)				812169	812250
Metering unit with MFMA&I (for SMDB400 & SMDB630 ,with F1 & F2 o/g)				812170	812251
Corner Unit				812171	812252

Dimensional Details



SMDB 250	Ways	Outgoing Configuration		'A' in mm	'B' in mm (TPN/FP)	'C' Single Door (in mm)	'C' Double Door (in mm)
Optium F2 MCCB	4W	F1-4	-	750	1050	150	200
	6W	F1-6	-	750	1150	150	200
	8W	F1-8	-	750	1250	150	200
	12W	F1-12	-	750	1450	150	200
SMDB 250	Ways	Outgoing Configuration		'A' in mm	'B' in mm (FP)	'C' Single Door (in mm)	'C' Double Door (in mm)
Optium F3 MCCB	4W	F1-4	-	750	1050	150	200
	6W	F1-6	-	750	1150	150	200
	8W	F1-8	-	750	1250	150	200
	12W	F1-12	-	750	1450	150	200

Dimensional Details

SMDB 400	Ways	Outgoing Configuration		'A" in mm	'B" in mm (TPN/FP)	'C" Single Door (in mm)	'C" Double Door (in mm)
Optium F4(400A) MCCB	4W	F1-4	-	750	1200	150	200
	6W	F1-6	-	750	1300	150	200
	8W	F1-8	-	750	1400	150	200
	12W	F1-12	-	750	1600	150	200
SMDB 630	Ways	Outgoing Configuration		'A" in mm	'B" in mm (TPN/FP)	'C" Single Door (in mm)	'C" Double Door (in mm)
Optium F4(630A) MCCB	4W	F1-4	-	750	1200	150	200
	6W	F1-6	-	750	1300	150	200
	8W	F1-8	-	750	1400	150	200
	12W	F1-12	-	750	1600	150	200
	8W	F1-6	F2-2	850	1400	150	200
	12W	F1-10	F2-2	850	1600	150	200

Optipro SMDB Selection Chart

Step 1 : Select SMDB frame size according to an incomer

SMDB 250 SMDB 400 SMDB 630

Step 2 : Select respective Cat. Refs. as per no. of ways or as per outgoing ways polarity & frame

Step 3 : Select MCCB from given configuration table

Step 4 : Select metering unit with an option to opt

Digital Ammeter, Voltmeter & Phase Indication lamps

Digital MFM, Annunciator & Phase Indication lamps

Step 5 : Add Corner units and cable alleys as per ways

Step 6 : Select Bottom cable entry as per requirement



Indoasian's network of channel partners and distributors spans 60 countries in Africa, Middle East, Far East, Asia Pacific, Europe and Oceania.



CORPORATE OFFICE:

V. J Business Tower, A-6, 1st Floor, Sector-125, Noida-201301, UP., India.

Ph.: +91-0120-3305100 | E-mail: international@indoasian.com | Website: www.indoasian.com