Technical catalogue - Preliminary

SACE FORMULA
New low voltage moulded-case circuit-breakers up to 630A

Power and productivity
for a better world™

Circuit-breakers for power distribution

General characteristics

The SACE FORMULA circuit-breakers from 15A to 630A consist of the interruption part together with the trip unit and they can be installed:

- directly on the back plate of the cubicles;
- on a DIN rail (A1 and A2);
- back door (A1, A2 and A3, 2-3 4 poles).

They are characterised by:

- fixed version;
- polarity: 1 pole (A1 and A2), 2 poles (A1 and A2), 3 poles (A1, A2 and A3), 4 poles (A1, A2 and A3);
- maximum breaking capacity of 36kA for A1 and A2 and of 50kA for A3 at 415V AC;
- fixed thermomagnetic trip unit (TMF) for protection of networks in alternating and direct current (A1, A2, A3);
- ELT LI electronic trip unit with fixed thresholds for the protection of networks in alternating current (A3);
- only two depths: 60mm (A1, A2) and 103.5mm (A3);
- standard front terminals;
- the possibility of use at 50°C without derating up to 250A (exceptr for A1 125A);
- a special version for A3 300A-400A for use at 50°C.

SACE FORMULA A1

1 pole 2 poles 3 poles 4 poles

SACE FORMULA A2

1 pole 2 poles 3 poles 4 poles

SACE FORMULA A3

3 poles 4 poles

		A1							A2						A3	
Frame size (G2.1)	[A]	125							250						400/630	
Rated current, **In** (G2.2)	[A]	15...125							125...250						320...630	
Poles	[Nr]	1, 2, 3, 4							1, 2, 3, 4						3, 4	
Rated service voltage, **Ue** (G2.3) (AC) 50-60 Hz	[V]	550 (2p-3p-4p); 415 (1p)							550 (2p-3p-4p); 415 (1p)						550	
(DC)	[V]	250 (2p-3p-4p); 125 (1p)							250 (2p-3p-4p); 125 (1p)						250	
Rated insulation voltage, **Ui** (G2.4)	[V]	690							690						690	
Rated impulse withstand voltage, **Uimp** (G2.5)	[kV]	6							6						6	
Versions		Fixed							Fixed						Fixed	
Performance Level		**A**	**B**	**C**		**N**			**B**	**C**		**N**			**N**	**S**
Poles	[Nr]	3/4	3/4	1	3/4	1	2	3/4	3/4	1	3/4	1	2	3/4	3/4	3/4
Rated ultimate short-circuit breaking capacity, Icu (G2.6)																
Icu @ 240 V 50-60 Hz (AC)	[kA]	10	25	18	30	25	50	100	25	18	50	25	50	85	85	100
Icu @ 380 V 50-60 Hz (AC)	[kA]	10	18	2.5	25	5	36(5)	36(5)	18	2.5	25	5	36	36	36	50
Icu @ 415 V 50-60 Hz (AC)	[kA]	10	18	2.5	25	5	36(5)	36(5)	18	2.5	25	5	36	36	36	50
Icu @ 440 V 50-60 Hz (AC)	[kA]	8	15	-	20	-	25	25	15	-	20	-	25	25	36	50
Icu @ 480 V 50-60 Hz (AC)	[kA]	7.5	10	-	15	-	18	18	15	-	18	-	18	25	25	35
Icu @ 500 V 50-60 Hz (AC)	[kA]	5	5	-	8	-	10	10	5	-	8	-	10	10	20	25
Icu @ 550 V 50-60 Hz (AC)	[kA]	5	5	-	8	-	10	10	5	-	8	-	10	10	15	20
Icu @ 125 V (DC) 1 pole	[kA]	-	-	5	-	10	-	-	-	5	-	10	-	-	-	-
Icu @ 250 V (DC) 2 poles in series	[kA]	5	5	-	10	-	10	10	18	-	25	-	10	36	36	50
Rated short-circuit service breaking capacity, Ics (G2.7)																
Ics @ 240 V 50-60 Hz (AC)	[kA]	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%
Ics @ 380 V 50-60 Hz (AC)	[kA]	50%	50%	50%	50%	50%	50%	50%	50%	100%	50%	50%	50%	50%	50%	50%
Ics @ 415 V 50-60 Hz (AC)	[kA]	50%	25%(1)	50%	25%	25%	25%	25%	50%	100%	50%	50%	50%	50%	50%	50%
Ics @ 440 V 50-60 Hz (AC)	[kA]	50%	25%(1)	-	25%	-	25%	25%	50%	-	50%	-	50%	50%	50%	50%
Ics @ 480 V 50-60 Hz (AC)	[kA]	50%	50%	-	25%(2)	-	25%	25%	50%	-	50%	-	50%	50%	50%	50%
Ics @ 500 V 50-60 Hz (AC)	[kA]	50%	50%	-	25%(3)	-	25%	25%	50%	-	50%	-	50%	50%	50%	50%
Ics @ 550 V 50-60 Hz (AC)	[kA]	50%	50%	-	25%(3)	-	25%	25%	50%	-	50%	-	50%	50%	50%	50%
Ics @ 250 V (DC) 2 poles in series	[kA]	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%
Rated short-circuit making capacity, Icm (G2.8)																
Icm @ 240 V 50-60 Hz (AC)	[kA]	52.5	52.5	36	63	52.5	105	220	52.5	36	105	52.5	105	187	187	220
Icm @ 380 V 50-60 Hz (AC)	[kA]	17	36	3.8	52.5	7.5	75.6	75.6	36	3.8	52.5	7.5	75.6	75.6	75.6	105
Icm @ 415 V 50-60 Hz (AC)	[kA]	17	36	3.8	52.5	7.5	63	63	36	3.8	52.5	7.5	75.6	75.6	75.6	105
Icm @ 440 V 50-60 Hz (AC)	[kA]	13.6	30	-	40	-	52.5	52.5	30	-	40	-	52.5	52.5	75.6	105
Icm @ 480 V 50-60 Hz (AC)	[kA]	12.8	17	-	30	-	36	17	30	-	36	-	36	52.5	52.5	73.5
Icm @ 500 V 50-60 Hz (AC)	[kA]	7.5	7.5	-	13.6	-	17	17	7.5	-	13.6	-	17	17	40	52.5
Icm @ 550 V 50-60 Hz (AC)	[kA]	7.5	7.5	-	13.6	-	17	17	7.5	-	13.6	-	17	17	30	40
Utilization category (IEC 60947-2) (G2.9)		A							A						A	
Hold 100% In at 50°C	[A]	15...100							125...250						300-400(4)	
Reference Standard		IEC 60947-2							IEC 60947-2						IEC 60947-2	
Isolation behaviour		■							■						■	
Fixing onto DIN rail		DIN EN 50022							DIN EN 50022						-	
Mechanical life (G2.10)	[No. operations]	8500							10000						5000	
Electrical life @ 415 V (AC) (G2.11)	[No. operations]	1500							4000						2000	
Total opening time — Shunt opening release (SOR)	[ms]	15							15						15	
Total opening time — Undervoltage release (UVR)	[ms]	15							15						≤ 25	
Dimensions (Width x Depth x Height) — 1 pole	[mm]	25.4x60x130							35x60x150						-	
Dimensions (Width x Depth x Height) — 2 poles	[mm]	50.8x60x130							70x60x150						-	
Dimensions (Width x Depth x Height) — 3 poles	[mm]	76.2x60x130							105x60x150						139.5x 103.5x 205	
Dimensions (Width x Depth x Height) — 4 poles	[mm]	101.6x60x130							140x60x150						186x 103.5x 205	
Weight — 1 pole	[kg]	0.245							0.370						-	
Weight — 2 poles	[kg]	0.470							0.730						-	
Weight — 3 poles	[kg]	0.700							1.100						3.25	
Weight — 4 poles	[kg]	0.925							1.450						4.15	
Trip Unit (G3.1)																
Thermomagnetic TMF (G3.2)		■							■						■ (up to 500A)	
Electronic ELT LI (G3.3)															■ (up to 630A)	

(1) 5KA; (2) 4KA; (3) 2.5KA; (4) Special version; (5) In=15A, Icu=30kA

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- on a DIN rail (A1 and A2);
- back door (A1, A2 and A3, 2-3 4 poles).

They are characterised by:

- fixed version;
- polarity: 1 pole (A1 and A2), 2 poles (A1 and A2), 3 poles (A1, A2 and A3), 4 poles (A1, A2 and A3);
- maximum breaking capacity of 36kA for A1 and A2 and of 50kA for A3 at 415V AC;
- fixed thermomagnetic trip unit (TMF) for protection of networks in alternating and direct current (A1, A2, A3);
- ELT LI electronic trip unit with fixed thresholds for the protection of networks in alternating current (A3);
- only two depths: 60mm (A1, A2) and 103.5mm (A3);
- standard front terminals;
- the possibility of use at 50°C without derating up to 250A (exceptr for A1 125A);
- a special version for A3 300A-400A for use at 50°C.

SACE FORMULA A1

1 pole 2 poles 3 poles 4 poles

SACE FORMULA A2

1 pole 2 poles 3 poles 4 poles

SACE FORMULA A3

3 poles 4 poles

		A1							A2						A3	
Frame size (G2.1)	[A]	125							250						400/630	
Rated current, **In** (G2.2)	[A]	15...125							125...250						320...630	
Poles	[Nr]	1, 2, 3, 4							1, 2, 3, 4						3, 4	
Rated service voltage, **Ue** (G2.3) (AC) 50-60 Hz	[V]	550 (2p-3p-4p); 415 (1p)							550 (2p-3p-4p); 415 (1p)						550	
(DC)	[V]	250 (2p-3p-4p); 125 (1p)							250 (2p-3p-4p); 125 (1p)						250	
Rated insulation voltage, **Ui** (G2.4)	[V]	690							690						690	
Rated impulse withstand voltage, **Uimp** (G2.5)	[kV]	6							6						6	
Versions		Fixed							Fixed						Fixed	
Performance Level		**A**	**B**	**C**		**N**			**B**	**C**		**N**			**N**	**S**
Poles	[Nr]	3/4	3/4	1	3/4	1	2	3/4	3/4	1	3/4	1	2	3/4	3/4	3/4
Rated ultimate short-circuit breaking capacity, Icu (G2.6)																
Icu @ 240 V 50-60 Hz (AC)	[kA]	10	25	18	30	25	50	100	25	18	50	25	50	85	85	100
Icu @ 380 V 50-60 Hz (AC)	[kA]	10	18	2.5	25	5	36(5)	36(5)	18	2.5	25	5	36	36	36	50
Icu @ 415 V 50-60 Hz (AC)	[kA]	10	18	2.5	25	5	36(5)	36(5)	18	2.5	25	5	36	36	36	50
Icu @ 440 V 50-60 Hz (AC)	[kA]	8	15	-	20	-	25	25	15	-	20	-	25	25	36	50
Icu @ 480 V 50-60 Hz (AC)	[kA]	7.5	10	-	15	-	18	18	15	-	18	-	18	25	25	35
Icu @ 500 V 50-60 Hz (AC)	[kA]	5	5	-	8	-	10	10	5	-	8	-	10	10	20	25
Icu @ 550 V 50-60 Hz (AC)	[kA]	5	5	-	8	-	10	10	5	-	8	-	10	10	15	20
Icu @ 125 V (DC) 1 pole	[kA]	-	-	5	-	10	-	-	-	5	-	10	-	-	-	-
Icu @ 250 V (DC) 2 poles in series	[kA]	5	5	-	10	-	10	10	18	-	25	-	10	36	36	50
Rated short-circuit service breaking capacity, Ics (G2.7)																
Ics @ 240 V 50-60 Hz (AC)	[kA]	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%
Ics @ 380 V 50-60 Hz (AC)	[kA]	50%	50%	50%	50%	50%	50%	50%	50%	100%	50%	50%	50%	50%	50%	50%
Ics @ 415 V 50-60 Hz (AC)	[kA]	50%	25%(1)	50%	25%	25%	25%	25%	50%	100%	50%	50%	50%	50%	50%	50%
Ics @ 440 V 50-60 Hz (AC)	[kA]	50%	25%(1)	-	25%	-	25%	25%	50%	-	50%	-	50%	50%	50%	50%
Ics @ 480 V 50-60 Hz (AC)	[kA]	50%	50%	-	25%(2)	-	25%	25%	50%	-	50%	-	50%	50%	50%	50%
Ics @ 500 V 50-60 Hz (AC)	[kA]	50%	50%	-	25%(3)	-	25%	25%	50%	-	50%	-	50%	50%	50%	50%
Ics @ 550 V 50-60 Hz (AC)	[kA]	50%	50%	-	25%(3)	-	25%	25%	50%	-	50%	-	50%	50%	50%	50%
Ics @ 250 V (DC) 2 poles in series	[kA]	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%
Rated short-circuit making capacity, Icm (G2.8)																
Icm @ 240 V 50-60 Hz (AC)	[kA]	52.5	52.5	36	63	52.5	105	220	52.5	36	105	52.5	105	187	187	220
Icm @ 380 V 50-60 Hz (AC)	[kA]	17	36	3.8	52.5	7.5	75.6	75.6	36	3.8	52.5	7.5	75.6	75.6	75.6	105
Icm @ 415 V 50-60 Hz (AC)	[kA]	17	36	3.8	52.5	7.5	63	63	36	3.8	52.5	7.5	75.6	75.6	75.6	105
Icm @ 440 V 50-60 Hz (AC)	[kA]	13.6	30	-	40	-	52.5	52.5	30	-	40	-	52.5	52.5	75.6	105
Icm @ 480 V 50-60 Hz (AC)	[kA]	12.8	17	-	30	-	36	17	30	-	36	-	36	52.5	52.5	73.5
Icm @ 500 V 50-60 Hz (AC)	[kA]	7.5	7.5	-	13.6	-	17	17	7.5	-	13.6	-	17	17	40	52.5
Icm @ 550 V 50-60 Hz (AC)	[kA]	7.5	7.5	-	13.6	-	17	17	7.5	-	13.6	-	17	17	30	40
Utilization category (IEC 60947-2) (G2.9)		A							A						A	
Hold 100% In at 50°C	[A]	15...100							125...250						300-400(4)	
Reference Standard		IEC 60947-2							IEC 60947-2						IEC 60947-2	
Isolation behaviour		■							■						■	
Fixing onto DIN rail		DIN EN 50022							DIN EN 50022						-	
Mechanical life (G2.10)	[No. operations]	8500							10000						5000	
Electrical life @ 415 V (AC) (G2.11)	[No. operations]	1500							4000						2000	
Total opening time — Shunt opening release (SOR)	[ms]	15							15						15	
Total opening time — Undervoltage release (UVR)	[ms]	15							15						≤ 25	
Dimensions (Width x Depth x Height) — 1 pole	[mm]	25.4x60x130							35x60x150						-	
Dimensions (Width x Depth x Height) — 2 poles	[mm]	50.8x60x130							70x60x150						-	
Dimensions (Width x Depth x Height) — 3 poles	[mm]	76.2x60x130							105x60x150						139.5x 103.5x 205	
Dimensions (Width x Depth x Height) — 4 poles	[mm]	101.6x60x130							140x60x150						186x 103.5x 205	
Weight — 1 pole	[kg]	0.245							0.370						-	
Weight — 2 poles	[kg]	0.470							0.730						-	
Weight — 3 poles	[kg]	0.700							1.100						3.25	
Weight — 4 poles	[kg]	0.925							1.450						4.15	
Trip Unit (G3.1)																
Thermomagnetic TMF (G3.2)		■							■						■ (up to 500A)	
Electronic ELT LI (G3.3)															■ (up to 630A)	

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- back door (A1, A2 and A3, 2-3 4 poles).

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- polarity: 1 pole (A1 and A2), 2 poles (A1 and A2), 3 poles (A1, A2 and A3), 4 poles (A1, A2 and A3);
- maximum breaking capacity of 36kA for A1 and A2 and of 50kA for A3 at 415V AC;
- fixed thermomagnetic trip unit (TMF) for protection of networks in alternating and direct current (A1, A2, A3);
- ELT LI electronic trip unit with fixed thresholds for the protection of networks in alternating current (A3);
- only two depths: 60mm (A1, A2) and 103.5mm (A3);
- standard front terminals;
- the possibility of use at 50°C without derating up to 250A (exceptr for A1 125A);
- a special version for A3 300A-400A for use at 50°C.

SACE FORMULA A1

1 pole 2 poles 3 poles 4 poles

SACE FORMULA A2

1 pole 2 poles 3 poles 4 poles

SACE FORMULA A3

3 poles 4 poles

		A1							A2						A3	
Frame size (G2.1)	[A]	125							250						400/630	
Rated current, **In** (G2.2)	[A]	15...125							125...250						320...630	
Poles	[Nr]	1, 2, 3, 4							1, 2, 3, 4						3, 4	
Rated service voltage, **Ue** (G2.3) (AC) 50-60 Hz	[V]	550 (2p-3p-4p); 415 (1p)							550 (2p-3p-4p); 415 (1p)						550	
(DC)	[V]	250 (2p-3p-4p); 125 (1p)							250 (2p-3p-4p); 125 (1p)						250	
Rated insulation voltage, **Ui** (G2.4)	[V]	690							690						690	
Rated impulse withstand voltage, **Uimp** (G2.5)	[kV]	6							6						6	
Versions		Fixed							Fixed						Fixed	
Performance Level		**A**	**B**	**C**		**N**			**B**	**C**		**N**			**N**	**S**
Poles	[Nr]	3/4	3/4	1	3/4	1	2	3/4	3/4	1	3/4	1	2	3/4	3/4	3/4
Rated ultimate short-circuit breaking capacity, Icu (G2.6)																
Icu @ 240 V 50-60 Hz (AC)	[kA]	10	25	18	30	25	50	100	25	18	50	25	50	85	85	100
Icu @ 380 V 50-60 Hz (AC)	[kA]	10	18	2.5	25	5	36(5)	36(5)	18	2.5	25	5	36	36	36	50
Icu @ 415 V 50-60 Hz (AC)	[kA]	10	18	2.5	25	5	36(5)	36(5)	18	2.5	25	5	36	36	36	50
Icu @ 440 V 50-60 Hz (AC)	[kA]	8	15	-	20	-	25	25	15	-	20	-	25	25	36	50
Icu @ 480 V 50-60 Hz (AC)	[kA]	7.5	10	-	15	-	18	18	15	-	18	-	18	25	25	35
Icu @ 500 V 50-60 Hz (AC)	[kA]	5	5	-	8	-	10	10	5	-	8	-	10	10	20	25
Icu @ 550 V 50-60 Hz (AC)	[kA]	5	5	-	8	-	10	10	5	-	8	-	10	10	15	20
Icu @ 125 V (DC) 1 pole	[kA]	-	-	5	-	10	-	-	-	5	-	10	-	-	-	-
Icu @ 250 V (DC) 2 poles in series	[kA]	5	5	-	10	-	10	10	18	-	25	-	10	36	36	50
Rated short-circuit service breaking capacity, Ics (G2.7)																
Ics @ 240 V 50-60 Hz (AC)	[kA]	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%
Ics @ 380 V 50-60 Hz (AC)	[kA]	50%	50%	50%	50%	50%	50%	50%	50%	100%	50%	50%	50%	50%	50%	50%
Ics @ 415 V 50-60 Hz (AC)	[kA]	50%	25%(1)	50%	25%	25%	25%	25%	50%	100%	50%	50%	50%	50%	50%	50%
Ics @ 440 V 50-60 Hz (AC)	[kA]	50%	25%(1)	-	25%	-	25%	25%	50%	-	50%	-	50%	50%	50%	50%
Ics @ 480 V 50-60 Hz (AC)	[kA]	50%	50%	-	25%(2)	-	25%	25%	50%	-	50%	-	50%	50%	50%	50%
Ics @ 500 V 50-60 Hz (AC)	[kA]	50%	50%	-	25%(3)	-	25%	25%	50%	-	50%	-	50%	50%	50%	50%
Ics @ 550 V 50-60 Hz (AC)	[kA]	50%	50%	-	25%(3)	-	25%	25%	50%	-	50%	-	50%	50%	50%	50%
Ics @ 250 V (DC) 2 poles in series	[kA]	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%
Rated short-circuit making capacity, Icm (G2.8)																
Icm @ 240 V 50-60 Hz (AC)	[kA]	52.5	52.5	36	63	52.5	105	220	52.5	36	105	52.5	105	187	187	220
Icm @ 380 V 50-60 Hz (AC)	[kA]	17	36	3.8	52.5	7.5	75.6	75.6	36	3.8	52.5	7.5	75.6	75.6	75.6	105
Icm @ 415 V 50-60 Hz (AC)	[kA]	17	36	3.8	52.5	7.5	63	63	36	3.8	52.5	7.5	75.6	75.6	75.6	105
Icm @ 440 V 50-60 Hz (AC)	[kA]	13.6	30	-	40	-	52.5	52.5	30	-	40	-	52.5	52.5	75.6	105
Icm @ 480 V 50-60 Hz (AC)	[kA]	12.8	17	-	30	-	36	17	30	-	36	-	36	52.5	52.5	73.5
Icm @ 500 V 50-60 Hz (AC)	[kA]	7.5	7.5	-	13.6	-	17	17	7.5	-	13.6	-	17	17	40	52.5
Icm @ 550 V 50-60 Hz (AC)	[kA]	7.5	7.5	-	13.6	-	17	17	7.5	-	13.6	-	17	17	30	40
Utilization category (IEC 60947-2) (G2.9)		A							A						A	
Hold 100% In at 50°C	[A]	15...100							125...250						300-400(4)	
Reference Standard		IEC 60947-2							IEC 60947-2						IEC 60947-2	
Isolation behaviour		■							■						■	
Fixing onto DIN rail		DIN EN 50022							DIN EN 50022						-	
Mechanical life (G2.10)	[No. operations]	8500							10000						5000	
Electrical life @ 415 V (AC) (G2.11)	[No. operations]	1500							4000						2000	
Total opening time — Shunt opening release (SOR)	[ms]	15							15						15	
Total opening time — Undervoltage release (UVR)	[ms]	15							15						≤ 25	
Dimensions (Width x Depth x Height) — 1 pole	[mm]	25.4x60x130							35x60x150						-	
Dimensions (Width x Depth x Height) — 2 poles	[mm]	50.8x60x130							70x60x150						-	
Dimensions (Width x Depth x Height) — 3 poles	[mm]	76.2x60x130							105x60x150						139.5x 103.5x 205	
Dimensions (Width x Depth x Height) — 4 poles	[mm]	101.6x60x130							140x60x150						186x 103.5x 205	
Weight — 1 pole	[kg]	0.245							0.370						-	
Weight — 2 poles	[kg]	0.470							0.730						-	
Weight — 3 poles	[kg]	0.700							1.100						3.25	
Weight — 4 poles	[kg]	0.925							1.450						4.15	
Trip Unit (G3.1)																
Thermomagnetic TMF (G3.2)		■							■						■ (up to 500A)	
Electronic ELT LI (G3.3)															■ (up to 630A)	

(1) 5KA; (2) 4KA; (3) 2.5KA; (4) Special version; (5) In=15A, Icu=30kA

Catalogue

Distribution Board
Formula Version

ABB's series of standard distribution boards have been designed to make it easy for you to achieve cost-effective and safe electrical installations in apartments, single-family house, commercial, industrial and public sector structures.

ABB offers a range of consumer units and distribution boards for the installation of modular components that enables to implement any type of application for power distribution in the residential and commercial buildings operating under the highest safety conditions and with significant savings of time.

The new distribution boards – FORMULA series are designed for easy installation with optimal safety according to IEC60439-1.

New Molded Case - FORMULA Series

Specifications

Standard	: IEC60439-1
Rated Voltage	: 240/415V 50Hz
Rated Main Busbar	: 200A and 250A Maximum
Rated Neutral Terminal	: 100% Rated Main Busbar
Main Incoming	: Circuit Breaker ABB SACE A1**, A2* or Cable Lug
Rate Outgoing	: 63A Maximum
No. of Circuit	: 12**, 24, 36, 48
Neutral Terminal Capacity	: Incoming up to 120mm^2 Outgoing up to 16mm^2
Ground Terminal Capacity	: Incoming up to 120mm^2 Outgoing up to 16mm^2
Panel board structure & Cover formed Alzn sheet steel	
Busbar	: Phase sequence type, Bolt on
Degree of protection	: IP40
Color	: RAL 7035 (Textile), Epoxy Polyester Powder Paint Coat
Insulator	: Glow-wire test passed at 960 ˚C
	: Cover Main Busbar and all Branches Circuit

*specification of 250A Main Busbar only
**specification of 200A Main Busbar only

Power and productivity
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Distribution Board with Main Circuit Breaker *

		No. of Circuit	Order Code	Main MCCB	Interrupting Capacity (IEC 60947-2)		Dimension W x L x H	Weight (Kgs.)
					380VAC	415VAC		
Maximum rated main busbar	200A	12	DB12MC200 Formula	A1A(15-125A)	10 kA	10 kA	430 x 650 x 130	14.50
		24	DB24MC200 Formula	A1B(15-125A)	18 kA	18 kA	430 x 750 x 130	16.00
		36	DB36MC200 Formula	A1C(15-125A)	25 kA	25 kA	430 x 850 x 130	17.75
		48	DB48MC200 Formula	A1N(15-125A)	36 kA	30 kA	430 x 950 x 130	21.00
	250A	24	DB24MC250 Formula	A2B(125-250A)	18 kA		430 x 750 x 130	16.25
		36	DB36MC250 Formula	A2C(125-250A)	25 kA		430 x 850 x 130	17.75
		48	DB48MC250 Formula	A2N(125-250A)	36 kA		430 x 950 x 130	21.00

* Use same Branch MCB as Distribution Board with Main Lug

Distribution Board with Main Lug

		No. of Circuit	Order Code	Branch MCB	Dimension W x L x H	Weight (Kgs.)
Maximum rated main busbar	200A	12	DB12CL200 Formula	SH200 (6-40A), 6kA S200 (50-63A), 6kA S200M (6-63A), 10kA	430 x 450 x 130	10.50
		24	DB24CL200 Formula		430 x 550 x 130	12.30
		26	DB36CL200 Formula		430 x 750 x 130	16.25
		48	DB48CL200 Formula		430 x 850 x 130	19.00
	250A	24	DB24CL250 Formula		430 x 550 x 130	12.30
		36	DB36CL250 Formula		430 x 750 x 130	16.25
		48	DB48CL250 Formula		430 x 850 x 130	19.00

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