

LT-APP Capacitors

Biodegradable NPCB Oil impregnated • PP+AL Foil technology • Internal fuse protection

General

APP Capacitor is proven technology from more than 30 years. The combination of polypropylene film and aluminum foil makes the capacitor, more robust in varying conditions of the load.

The power range varies from 5 KVAR to 100 KVAR and voltage range varies from 240V to 1000V in three phase units. Single phase units are also available on demand.

The LT-APP capacitors are utilized in industry for sustaining large load variations, THD and hazardous conditions. With high qualitative manufacturing process, LT-APP capacitors offer higher life expectancy.



Applications

- Automated PFC Capacitor banks.
- Fixed PFC (e.g. – Motors, Transformers lighting etc.)
- Group compensation for larger load variation
- Tuned and detuned Capacitor
- Dynamic PFC and RTPFC
- Filter applications
- Product suitable for outdoor application, available on request.

Features

- Extended foil design
Low Energy consumption
- Natural air cooled.
- Voltage range 440, 480 525V
- Output range 5 KVAR to 66.2 KVAR.

Electrical

- Single phase and three phase
- Life expectancy 150,000 hrs. at STP
- Pulse current withstand capability – $300 \times I_R$
- Type tested according to IS –13585
- Low temperature rise.

Maintenance

- Maintenance free

Safety

- Internal fuse provided
- Hermetically Sealed construction. (CRCA or SS)

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Technical data : LT-APP Capacitors	
Series type	B25160C...
Power-KVAR	5 to 66.2 KVAR
Rated voltage-V (AC)	440, 480, 525 V*
Frequency	50 Hz /60Hz
Transient peak current maximum permissible	$300 \cdot I_R$
Maximum permissible temperature category	-5/D
Losses (without discharge resistors)	0.5 W/KVAR
Maximum permissible voltage	$V_R + 10\%$ (up to 8 h daily)/ $V_R + 15\%$ (up to 30 min daily)** $V_R + 20\%$ (up to 5 min daily)/ $V_R + 30\%$ (up to 1 min daily)**
Maximum permissible Current	$(2.2 \text{ to } 3.0) \cdot I_R^{***}$
Safety	Internal fuse provided
Impregnation	Non PCB, biodegradable oil
Life expectancy	150000 hours
Cooling	ONAN (Oil Natural Air Natural)
Case shape/Finish	Rectangular box spray painted
Terminal	M- 6, M- 8, M-10 thread brass terminal
Mounting and grounding	Self standing with rigid mounting bracket and a bracket for grounding
Enclosure	IP 32 with terminal cover
Discharge resistor	Provided with external discharge resistor
Connection	Delta 3 Phase
Casing of capacitor cell	CRCA or SS container
Dielectric	Polypropylene film
No. of switching per annum	Max. 10000 switching
Reference standard	IS: 13585 (part - 1/2012)

* other voltages available on request

** V_R rated voltage

*** I_R : RMS line current that occurs at rated sinusoidal voltage and rated frequency, excluding transients.

Note : for capacitors with different features/parameters than above, please check with our nearest sales office

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LT-APP Capacitors - 3Phase								
Rating KVA _r	Voltage V (AC)	Material code	I _r A	C _N μF	H x W x D mm	Packing units	MOQ	Approx. weight Kg
LT - APP - 440 V(AC) 3PH, 50Hz (Series B25160)								
5	440	B25160C4005T 40	6.56	41.1	135 x 75 x 330	1	1	6
7.5	440	B25160C4007T540	9.84	61.65	135 x 85 x 330	1	1	6.5
10	440	B25160C4010T 40	13.12	82.2	135 x 115 x 330	1	1	8
12	440	B25160C4012T 40	16.4	102.75	155 x 115 x 330	1	1	9.5
15	440	B25160C4015T 40	19.68	123.3	175 x 115 x 330	1	1	10.5
20	440	B25160C4020T 40	26.24	164.39	225 x 115 x 355	1	1	13.5
25	440	B25160C4025T 40	32.8	205.49	195 x 115 x 455	1	1	15
30	440	B25160C4030T 40	39.37	246.59	225 x 115 x 455	1	1	17
40	440	B25160C4040T 40	52.49	329	275 x 115 x 455	1	1	20.5
50	440	B25160C4050T 40	65.61	410.99	335 x 115 x 455	1	1	25
LT - APP - 480 V(AC) 3PH, 50Hz (Series B25160)								
5	480	B25160C4005T 80	6.01	34.53	135 x 75 x 330	1	1	6
5.5	480	B25160C4005T580	6.62	37.99	135 x 75 x 330	1	1	6.5
7.5	480	B25160C4007T580	9.02	51.8	135 x 75 x 330	1	1	7
8.3	480	B25160C4008T380	9.98	57.33	135 x 85 x 330	1	1	7
10	480	B25160C4010T 80	12.03	69.07	135 x 100 x 330	1	1	7.5
11.1	480	B25160C4011T180	13.35	76.67	135 x 115 x 330	1	1	8.5
12.5	480	B25160C4012T580	15.04	86.34	135 x 115 x 330	1	1	8.5
13.8	480	B25160C4013T880	16.6	95.31	155 x 115 x 330	1	1	9.5
15	480	B25160C4015T 80	18.04	103.6	155 x 115 x 330	1	1	9.5
16.6	480	B25160C4016T680	19.97	114.65	175 x 115 x 330	1	1	10.5
20	480	B25160C4020T 80	24.06	138.14	195 x 115 x 355	1	1	12
22.1	480	B25160C4022T180	26.58	152.64	210 x 115 x 355	1	1	12.5
25	480	B25160C4025T 80	30.07	172.67	225 x 115 x 355	1	1	13.5
27.7	480	B25160C4027T780	33.28	191.11	185 x 115 x 455	1	1	14.5
30	480	B25160C4030T 80	36.09	207.21	195 x 115 x 455	1	1	15
33.2	480	B25160C4033T280	39.93	229.31	210 x 115 x 455	1	1	16.5
40	480	B25160C4040T 80	48.11	276.27	245 x 115 x 455	1	1	19
44.3	480	B25160C4044T380	53.29	305.97	275 x 115 x 455	1	1	20.5
50	480	B25160C4050T 80	60.14	345.34	295 x 115 x 455	1	1	22.5
55.3	480	B25160C4055T380	66.52	381.95	315 x 115 x 455	1	1	24
LT - APP - 525 V(AC) 3PH, 50Hz (Series B25160)								
5	525	B25160C5005T 25	5.5	28.87	135 x 115 x 230	1	1	6
6.6	525	B25160C5006T625	7.26	38.11	155 x 115 x 230	1	1	6.8
7.5	525	B25160C5007T525	8.25	43.3	185 x 115 x 230	1	1	8
8.3	525	B25160C5008T325	9.13	47.92	185 x 115 x 230	1	1	8
10	525	B25160C5010T 25	11	57.74	210 x 115 x 230	1	1	8.5
12.5	525	B25160C5012T525	13.75	72.17	135 x 115 x 330	1	1	8.5
13.2	525	B25160C5013T225	14.52	76.21	135 x 115 x 330	1	1	8.5
15	525	B25160C5015T 25	16.5	86.6	155 x 115 x 330	1	1	9.5
16.6	525	B25160C5016T625	18.26	95.84	175 x 115 x 330	1	1	10.5
20	525	B25160C5020T 25	21.99	115.47	195 x 115 x 355	1	1	12
25	525	B25160C5025T 25	27.49	144.34	225 x 115 x 355	1	1	13.5
26.5	525	B25160C5026T525	29.14	153	245 x 115 x 355	1	1	14.5
30	525	B25160C5030T 25	32.99	173.21	195 x 115 x 455	1	1	15.5
33.1	525	B25160C5033T125	36.4	191.11	210 x 115 x 455	1	1	16.5
40	525	B25160C5040T 25	43.99	230.94	245 x 115 x 455	1	1	18.5
50	525	B25160C5050T 25	54.99	288.68	295 x 115 x 455	1	1	22
53	525	B25160C5053T 25	58.29	306	295 x 115 x 455	1	1	23
66.2	525	B25160C5066T225	72.9	382.21	360 x 115 x 455	1	1	26.5