

Save Environment



Save Money



Save Energy



Reactive Power Management Solutions



About Us

Larsen & Toubro is a technology-driven company that infuses engineering with imagination. The Company offers a wide range of advanced solutions in the field of Engineering, Construction, Electrical & Automation, Machinery and Information Technology.

L&T Switchgear, a part of the Electrical & Automation business, is India's largest manufacturer of low voltage switchgear, with the scale, sophistication and range to meet global benchmarks. With over five decades of experience in this field, the Company today enjoys a leadership position in the Indian market with a growing international presence.

It offers a complete range of products including powergear, controlgear, industrial automation, building electricals & automation, reactive power management, energy meters, and protective relays. These products conform to Indian and International Standards.



Switchgear Factory, Mumbai

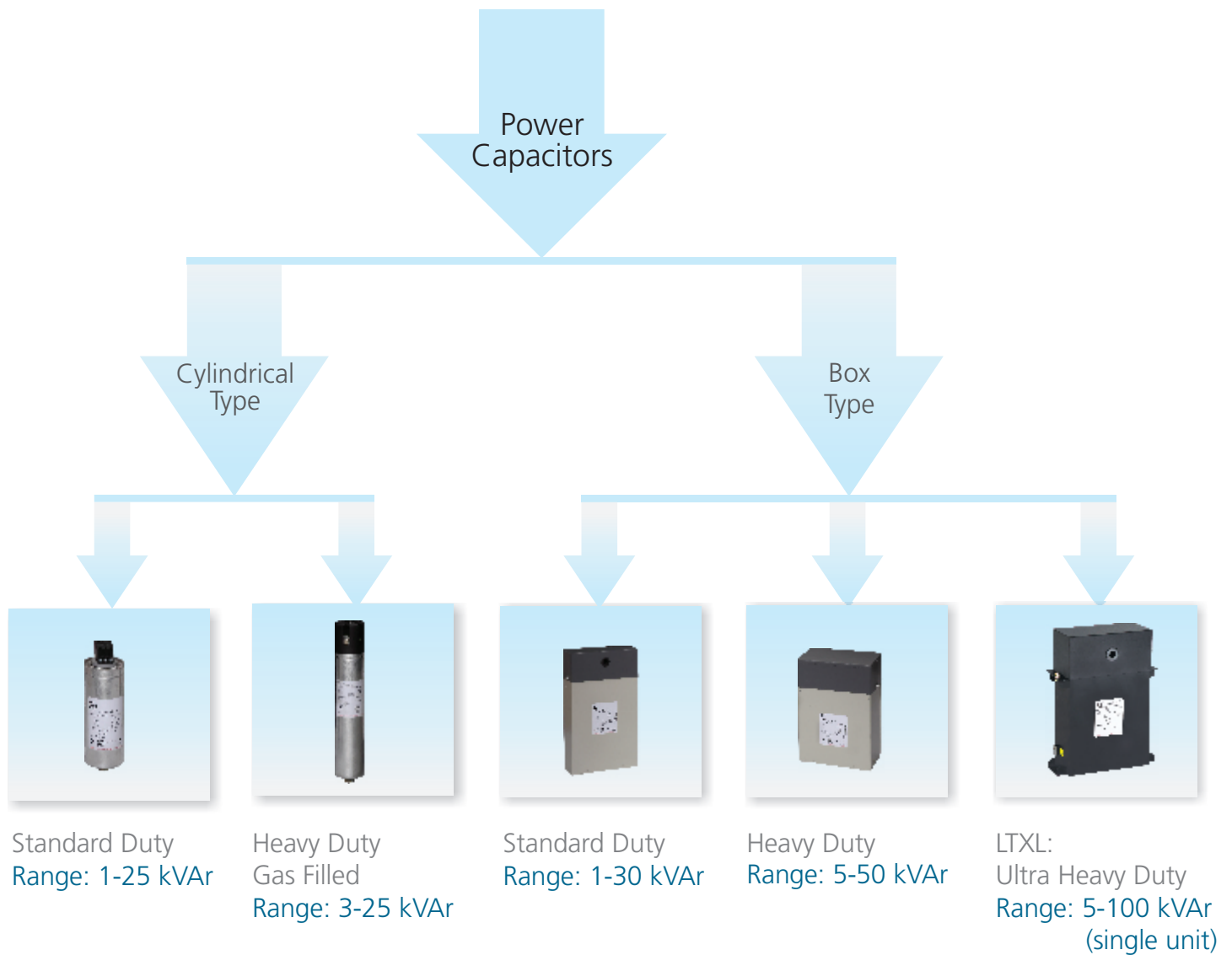


Switchgear Factory, Ahmednagar

Reactive Power Management Solutions



Reactive Power Management Products



Detuned Harmonics
Filter Reactors
(5-100 kVAR)



Thyristor Switching
Modules
(10-50 kVAR)



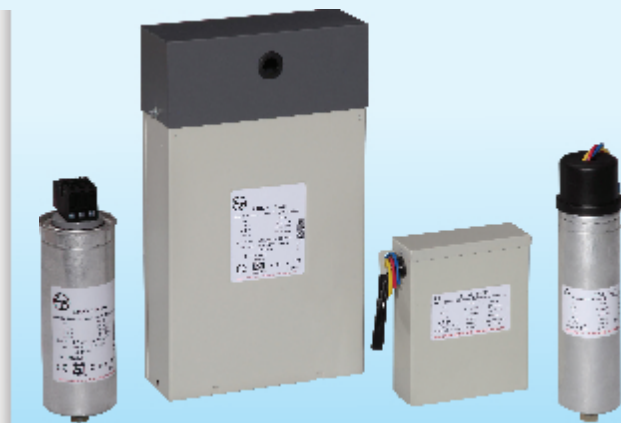
etaSYS
APFC Panels

Standard Duty Capacitors

L&T Standard Duty Capacitors are metalized polypropylene capacitors from 1kVAr to 25kVAr in cylindrical configuration and 1-50kVAr in box type configuration. These capacitors come with a stacked winding and are impregnated with a biodegradable soft resin. These capacitors are self healing type.

The Capacitors come with an over pressure disconnecter and finger proof terminals. They can be used to provide effective power factor correction in industrial and semi industrial applications.

For Selection and Application details please refer page no. 28.



Technical Details

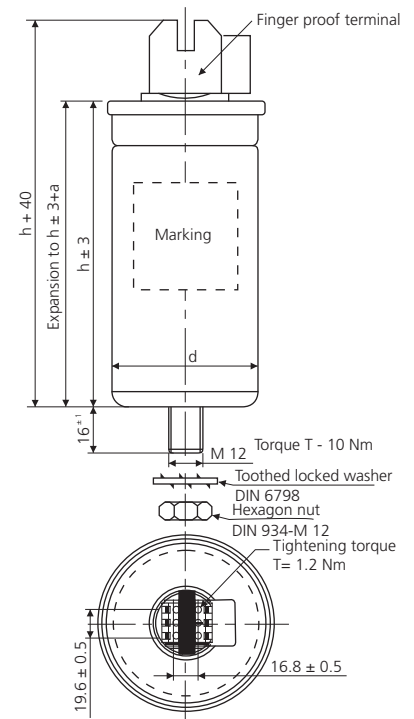
	Standard Duty	
	Box	Cylindrical
Series	LTBCF (1 to 6 kVAr) and LTBCD (7.5 kVAr and above)	LTCCF (1 to 6 kVAr) and LTCCD (7.5 kVAr and above)
Range	1-30 kVAr	1 - 25 kVAr
Standards	IS 13340-1993, IS 13341-1992, IEC 60831-1+2	IS 13340-1993, IS 13341-1992, IEC 60831-1+2
Rated Frequency	50Hz	50Hz
Rated Voltage	415 / 440 V	415 / 440 V
Over Voltage	+10% (12h/24h), +15% (30m/24h), +20% (5m/24hrs), +30% (1m/24hrs)	+10% (12h/24h), +15% (30m/24h), +20% (5m/24hrs), +30% (1m/24hrs)
Overcurrent	1.5 x In	1.5 x In
Peak Inrush Current	200 x In	200 x In
Operating Losses (Dielectric)	< 0.2 W/kVAr	< 0.2 W/kVAr
Operating Losses (Total)	< 0.45 W/kVAr	< 0.45 W/kVAr
Tolerance on Capacitance	-5 / +10% as per IS	-5 / +10% as per IS
Test Voltage (Terminal-Terminal)	2.15 times rated voltage for 10 sec	2.15 times rated voltage for 10 sec
Test Voltage (Terminal-Casing)	3 kV (AC) for 1 minute	3 kV (AC) for 1 minute
Degree of Protection	IP20, indoor mounting (IP54 optional)	IP20, indoor mounting (optionally with terminal cap for IP54)
Ambient Temperature	-25°C to 55°C	-25°C to 55°C
Cooling	Natural or forced air cooling	Natural or forced air cooling
Permissible Relative Humidity	max 95%	max 95%
Maximum Operating Altitude	4000m above sea level	4000m above sea level
Mounting	upright	upright
Safety Features	Overpressure disconnecter, Self-healing, Finger proof terminals	Overpressure disconnecter, Self-healing, Finger-proof terminals
Impregnation	Non PCB Oil, biodegradable oil	Non PCB Oil, biodegradable oil
Casing	MS Sheet metal	Aluminum extruded can
Dielectric Composition	Metalized polypropylene	Metalized polypropylene
Terminals	Porcelain Bushing	Finger-proof Clamp type
Discharge Resistors / Time	Discharge Resistors fitted, Standard discharge time 60 seconds, Other discharge times on request	Discharge Resistors fitted, Standard discharge time 60 seconds, Other discharge times on request
Switching Operations (maximum)	5000 switchings per year	5000 switchings per year

Dimensions

Standard Duty Capacitors

Cylindrical Type

Sr. No.	Voltage	Power rating (kVAr)		Capacitance (uF)	Rated current (A)	Dimensions in (mm)		Cat. Nos.
		50 Hz	60 Hz			H	D	
1	440 V	1	1	16.44	1.31	130	45	LTCCF301B2
2	440 V	2	2	32.88	2.62	130	50	LTCCF302B2
3	440 V	3	4	49.32	3.94	165	50	LTCCF303B2
4	440 V	4	5	65.77	5.25	165	63.5	LTCCF304B2
5	440 V	5	6	82.21	6.56	225	63.5	LTCCF305B2
6	440 V	6	7	98.65	7.87	225	63.5	LTCCF306B2
7	440 V	7.5	9	123.31	9.84	195	75	LTCCD307B2
8	440 V	8.33	10	136.96	10.93	195	75	LTCCD308B2
9	440 V	10	12	164.42	13.12	195	85	LTCCD310B2
10	440 V	12.5	15	205.52	16.40	270	85	LTCCD312B2
11	440 V	15	18	246.62	19.68	270	85	LTCCD315B2
12	440 V	20	24	328.83	26.24	345	85	LTCCD320B2
13	440 V	25	30	411.04	32.80	345	90	LTCCD325B2

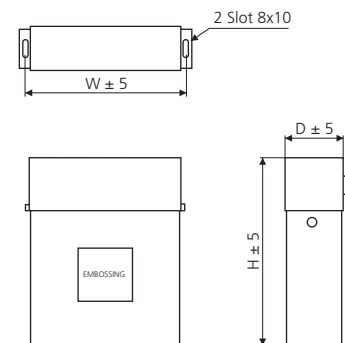


Note :- 1) Seaming adds 4mm. In diameter

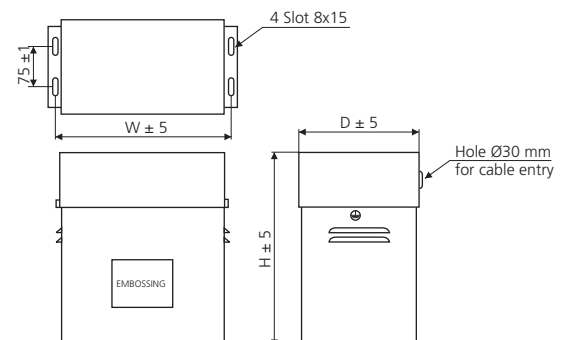
Box Type

Sr. No.	Voltage	Power rating (kVAr)		Capacitance (uF)	Rated current (A)	Dimensions in (mm)			Cat. Nos.
		50 Hz	60 Hz			H	W	D	
1	440 V	1	1	16.44	1.31	125	140	40	LTBCF301B2
2	440 V	2	2	32.88	2.62	125	140	40	LTBCF302B2
3	440 V	3	4	49.32	3.94	145	170	50	LTBCF303B2
4	440 V	4	5	65.77	5.25	145	170	50	LTBCF304B2
5	440 V	5	6	82.21	6.56	175	170	50	LTBCF305B2
6	440 V	6	7	98.65	7.87	175	170	50	LTBCF306B2
7	440 V	7.5	9	123.31	9.84	300	240	80	LTBCD307B2
8	440 V	8.33	10	136.96	10.93	300	240	80	LTBCD308B2
9	440 V	10	12	164.42	13.12	300	240	80	LTBCD310B2
10	440 V	12.5	15	205.52	16.40	300	240	80	LTBCD312B2
11	440 V	15	18	246.62	19.68	300	240	80	LTBCD315B2
12	440 V	20	24	328.83	26.24	300	240	160	LTBCD320B2
13	440 V	25	30	411.04	32.80	300	240	160	LTBCD325B2
14	440 V	30	36	493.25	39.37	300	240	160	LTBCD330B2

7.5 kVAr to 15 kVAr



20 kVAr to 30 kVAr



Heavy Duty Capacitors

L&T Heavy Duty Capacitors are available from 3-25kVAr in cylindrical and from 5-50kVAr in box type construction. These capacitors have an inrush current withstand of 300 In and an overload withstand capacity of 1.8 In. These capacitors have all the features of standard capacitors like over pressure disconnecter and self healing.

The cylindrical Capacitors are subjected to an extended period of drying after which the casing is filled with an inert gas to prevent corrosion of the winding elements and inner electrical contacts. Compact design ensures space saving. Heavy Duty capacitors have a long life of 150000 hours.

For Selection and Application details please refer page no. 28.



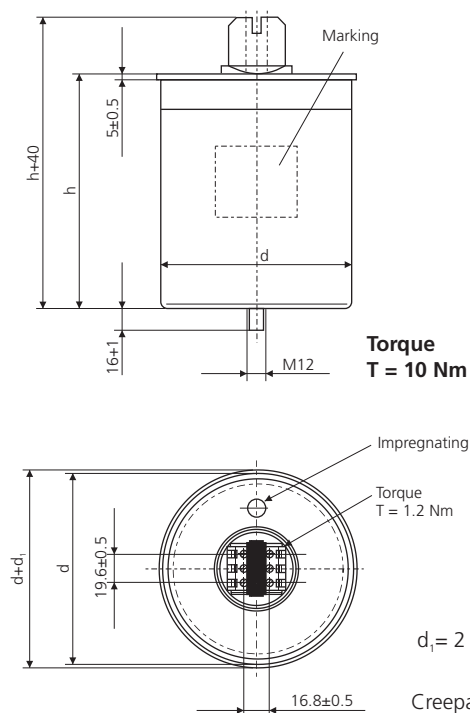
Technical Details

	Heavy Duty	
	Box	Cylindrical
Series	LTBCH	LTCCN
Range	5-50 kVAr	3-30 kVAr
Standards	IS 13340-1993, IS 13341-1992, IEC 60831-1+2	IS 13340-1993, IS 13341-1992, IEC 60831-1+2
Rated Frequency	50Hz	50Hz
Rated Voltage	415 / 440 / 480 / 525 V	415 / 440 / 480 / 525 / 690 V
Over Voltage	+10% (12h/24h), +15% (30m/24h), +20% (5m/24hrs), +30% (1m/24hrs)	+10% (12h/24h), +15% (30m/24h), +20% (5m/24hrs), +30% (1m/24hrs)
Overcurrent	1.8 x In	1.8 x In
Peak Inrush Current	300 x In	250 x In
Operating Losses (Dielectric)	< 0.2 W/kVAr	< 0.2 W/kVAr
Operating Losses (Total)	< 0.35 W/kVAr	< 0.35 W/kVAr
Tolerance on Capacitance	-5 / +10% as per IS	-5 / +10% as per IS
Test Voltage (Terminal-Terminal)	2.15 times rated voltage for 10 sec	2.15 times rated voltage for 10 sec
Test Voltage (Terminal-Casing)	3 kV (AC) for 1 minute	3 kV (AC) for 1 minute
Degree of Protection	IP20, indoor mounting (IP54 optional)	IP20, indoor mounting (optionally with terminal cap for IP54)
Ambient Temperature	-25°C to 55°C	-40°C to 55°C
Cooling	Natural or forced air cooling	Natural or forced air cooling
Permissible Relative Humidity	max 95%	max 95%
Maximum Operating Altitude	4000m above sea level	4000m above sea level
Mounting	upright	upright or horizontal
Safety Features	overpressure disconnecter, Self-healing	Dry type (gas filled), Overpressure disconnecter, Self-healing
Impregnation	Non PCB Oil, biodegradable oil	Inert gas
Casing	MS Sheet metal	Aluminum extruded can
Dielectric Composition	Metalized polypropylene	Metalized polypropylene
Terminals	Porcelain Bushing	Finger-proof Clamptite
Discharge Resistors / Time	Discharge resistors fitted, Standard discharge time 60 seconds, Other discharge times on request	Discharge resistors fitted, Standard discharge time 60 seconds, Other discharge times on request
Switching Operations (maximum)	8000 switchings per year	8000 switchings per year

Dimensions

Heavy Duty Capacitors

Cylindrical Type



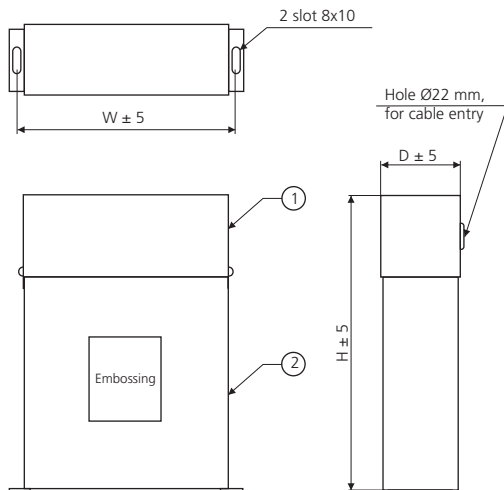
Sr. No.	Voltage	Power rating (kVA _r)		Capacitance (uF)	Rated current (A)	Dimensions in (mm)		Cat. Nos.
		50 Hz	60 Hz			H	D	
1	440 V	5	6	82.21	6.56	190	64	LTCCN305B2
2	440 V	7.5	9	123.31	9.84	190	64	LTCCN307B2
3	440 V	8.33	10	136.96	10.93	190	64	LTCCN308B2
4	440 V	10	12	164.42	13.12	265	64	LTCCN310B2
5	440 V	12.5	15	205.52	16.40	265	64	LTCCN312B2
6	440 V	15	18	246.62	19.68	190	84.4	LTCCN315B2
7	440 V	20	24	328.83	26.24	265	84.4	LTCCN320B2
8	440 V	25	30	411.04	32.80	265	84.4	LTCCN325B2
9	480 V	5	6	69.08	6.01	190	64	LTCCN305C2
10	480 V	7.5	9	103.62	9.02	190	64	LTCCN307C2
11	480 V	8.33	10	115.08	10.02	190	64	LTCCN308C2
12	480 V	10	12	138.16	12.03	190	84	LTCCN310C2
13	480 V	12.5	15	172.69	15.04	190	84	LTCCN312C2
14	480 V	15	18	207.23	18.04	265	84	LTCCN315C2
15	480 V	20	24	276.31	24.06	265	84	LTCCN320C2
16	480 V	25	30	345.39	30.07	265	84	LTCCN325C2
17	480 V	30	36	414.47	36.09	230	116	LTCCN330C2
18	525 V	5	6	57.74	5.50	190	64	LTCCN305M2
19	525 V	7.5	9	86.61	8.25	190	64	LTCCN307M2
20	525 V	8.33	10	96.20	9.16	190	64	LTCCN308M2
21	525 V	10	12	115.49	11.00	265	65	LTCCN310M2
22	525 V	12.5	15	144.36	13.75	265	65	LTCCN312M2
23	525 V	15	18	173.23	16.50	265	65	LTCCN315M2
24	525 V	20	24	230.97	21.99	265	84	LTCCN320M2
25	525 V	25	30	288.72	27.49	265	84	LTCCN325M2
26	525 V	30	36	346.46	32.99	230	116	LTCCN330M2

Dimensions

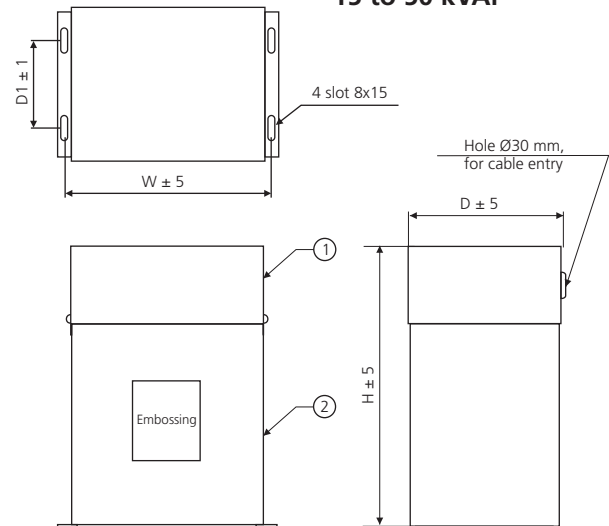
Heavy Duty Capacitors

Box Type

5 to 12.5 kVAr



15 to 50 kVAr



Sr. No.	Voltage	Power rating (kVAr)		Capacitance (uF)	Rated current (A)	Dimensions in (mm)				Cat. Nos.
		50 Hz	60 Hz			W	D	D1	H	
1	440 V	5	6	82.21	6.56	245	80	-	325	LTBCH305B2
2	440 V	7.5	9	123.31	9.84	245	80	-	325	LTBCH307B2
3	440 V	8.33	10	136.96	10.93	245	80	-	325	LTBCH308B2
4	440 V	10	12	164.42	13.12	245	80	-	325	LTBCH310B2
5	440 V	12.5	15	205.52	16.40	245	80	-	325	LTBCH312B2
6	440 V	15	18	246.62	19.68	240	160	75	325	LTBCH315B2
7	440 V	20	24	328.83	26.24	240	160	75	325	LTBCH320B2
8	440 V	25	30	411.04	32.80	240	160	75	325	LTBCH325B2
9	440 V	30	36	493.25	39.37	240	160	75	325	LTBCH330B2
10	440 V	50	60	822.08	65.61	240	320	150	375	LTBCH350B2
11	480 V	5	6	69.08	6.01	245	80	-	325	LTBCH305C2
12	480 V	7.5	9	103.62	9.02	245	80	-	325	LTBCH307C2
13	480 V	10	12	138.16	12.03	245	80	-	325	LTBCH310C2
14	480 V	12.5	15	172.69	15.04	245	80	-	325	LTBCH312C2
15	480 V	15	18	207.23	18.04	240	160	75	325	LTBCH315C2
16	480 V	20	24	276.31	24.06	240	160	75	325	LTBCH320C2
17	480 V	25	30	345.39	30.07	240	160	75	325	LTBCH325C2
18	480 V	30	36	414.47	36.09	240	160	75	325	LTBCH330C2
19	480 V	50	60	690.78	60.14	240	320	150	375	LTBCH350C2
20	525 V	5	6	57.74	5.50	245	80	-	325	LTBCH305M2
21	525 V	7.5	9	86.61	8.25	245	80	-	325	LTBCH307M2
22	525 V	8.33	10	96.20	9.16	245	80	-	325	LTBCH308M2
23	525 V	10	12	115.49	11.00	245	80	-	325	LTBCH310M2
24	525 V	12.5	15	144.36	13.75	245	80	-	325	LTBCH312M2
25	525 V	15	18	173.23	16.50	240	160	75	325	LTBCH315M2
26	525 V	20	24	230.97	21.99	240	160	75	325	LTBCH320M2
27	525 V	25	30	288.72	27.49	240	160	75	325	LTBCH325M2
28	525 V	30	36	346.46	32.99	240	160	75	325	LTBCH330M2
29	525 V	50	60	577.43	54.99	240	320	150	375	LTBCH350M2

LTXL: Ultra Heavy Duty Capacitor



The LTXL range of capacitors are designed for Ultra heavy duty applications and can withstand heavy load fluctuations, high inrush current and harmonics.

Applications

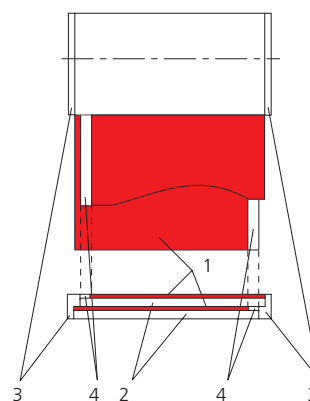
- Applications such as welding, steel rolling, etc., with heavy load fluctuations and high thermal loading
- Systems with high harmonic distortion levels (non linear load >15%)
- Systems with high dv/dt
- Tuned harmonic filter

Features

- Long life expectancy (upto 300000 hrs)
- Maximum inrush current withstand capability (upto 500 times I_R)
- Low power loss (0.35 W/kVAR)
- Shock hazard protected terminals
- Internal fuse

The life of a capacitor largely depends upon its operating temperature. LTXL box type capacitors use advanced APP technology. By employing thicker aluminum foil, thicker polypropylene film and special impregnates, LTXL box type capacitor is able to operate at lower temperatures and hence achieve a longer life. These capacitors are thus able to withstand stringent operating conditions. The higher surface area and special epoxy based coating also ensures better heat dissipation. The capacitor is designed to operate at ambient temperature up to 70°C.

In LTXL box, two polypropylene films and two Al films are grouped together as shown in the figure below. The wave-cut and heavy edge metalized films are then rolled to form a capacitor element. Many such capacitor elements are pressed and stacked together and are internally connected in parallel. Depending upon the rating of the capacitor, the number of stacks differ. These stacks are placed inside a case and are vacuum impregnated with non-PCB, biodegradable impregnates.

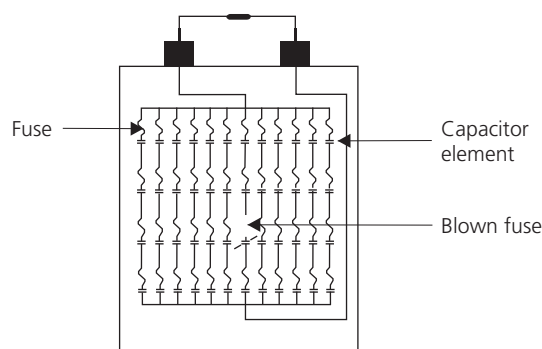


1. Al Film
2. Polypropylene Film
3. Electric Contact (schooping)
4. Bare PP Film Edge

Design of LT Capacitor

Each capacitor element is protected by an internal fuse as shown in the figure below. If there is an internal short circuit in any of the capacitor element, the fuse of that corresponding capacitor elements will blow.

For Selection and Application details please refer page no. 28.



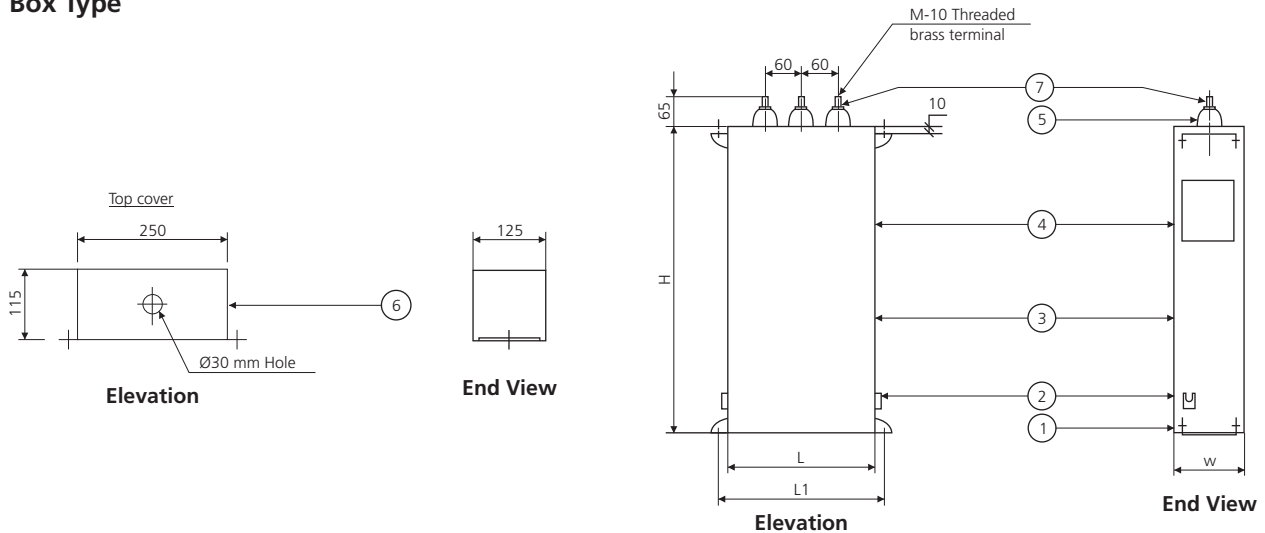
Technical Details

	LTXL - Ultra Heavy Duty Box
Series	LTBCU
Range	5 - 100 kVAr
Standards	IS 13585-1994, IEC 60931-2002
Rated Frequency	50Hz
Rated Voltage	415 / 440 / 480 / 525 / 690 / 850 / 1000 V
Over Voltage	+10% (12h/24h), +15% (30m/24h), +20% (5m/24hrs), +30% (1m/24hrs)
Overcurrent	Upto 3 x In
Peak Inrush Current	Upto 500 x In
Operating Losses (Dielectric)	< 0.2 W/kVAr
Operating Losses (Total)	< 0.35 W/kVAr
Tolerance on Capacitance	-5 / +10% as per IS
Test Voltage (Terminal-Terminal)	2.15 times rated voltage for 10 sec
Test Voltage (Terminal-Casing)	3 kV (AC) for 1 minute
Degree of Protection	IP20, indoor mounting (optionally with terminal cap for IP54)
Ambient Temperature	-25°C to 70°C
Cooling	Natural or forced air cooling
Permissible Relative Humidity	max 95%
Maximum Operating Altitude	4000m above sea level
Mounting	upright
Safety Features	Internal Fuse
Impregnation	Non PCB Oil, biodegradable oil
Casing	MS Sheet metal
Dielectric Composition	Biaxially oriented polypropylene film with aluminium foil electrode
Terminals	Porcelain Bushing
Discharge Resistors / Time	Discharge Resistors fitted, Standard discharge time 60 seconds, Other discharge times on request
Switching operations (maximum)	20000 switchings per year

Dimensions

LTXL: Ultra Heavy Duty Capacitors

Box Type



Sr. No.	Voltage	Power rating (kVA _r)		Capacitance (uF)	Rated current (A)	Dimensions in (mm)				Cat. Nos.
		50 Hz	60 Hz			L	L1	W	H	
1	440 V	5	6	82.21	6.56	240	270	115	115	LTBCU305B2
2	440 V	7.5	9	123.31	9.84	240	270	115	150	LTBCU307B2
3	440 V	8.33	10	136.96	10.93	240	270	115	150	LTBCU308B2
4	440 V	10	12	164.42	13.12	240	270	115	175	LTBCU310B2
5	440 V	12.5	15	205.52	16.40	240	270	115	200	LTBCU312B2
6	440 V	15	18	246.62	19.68	240	270	115	225	LTBCU315B2
7	440 V	20	24	328.83	26.24	240	270	115	275	LTBCU320B2
8	440 V	25	30	411.04	32.80	240	270	115	325	LTBCU325B2
9	440 V	30	36	493.25	39.37	240	270	115	375	LTBCU330B2
10	440 V	50	60	822.08	65.61	240	270	115	575	LTBCU350B2
11	480 V	5	6	69.08	6.01	240	270	115	100	LTBCU305C2
12	480 V	7.5	9	103.62	9.02	240	270	115	150	LTBCU307C2
13	480 V	10	12	138.16	12.03	240	270	115	150	LTBCU310C2
14	480 V	12.5	15	172.69	15.04	240	270	115	175	LTBCU312C2
15	480 V	15	18	207.23	18.04	240	270	115	200	LTBCU315C2
16	480 V	20	24	276.31	24.06	240	270	115	250	LTBCU320C2
17	480 V	25	30	345.39	30.07	240	270	115	300	LTBCU325C2
18	480 V	30	36	414.47	36.09	240	270	115	325	LTBCU330C2
19	480 V	50	60	690.78	60.14	240	370	115	500	LTBCU350B2
20	525 V	5	6	57.74	5.50	340	370	115	100	LTBCU305M2
21	525 V	7.5	9	86.61	8.25	340	370	115	115	LTBCU307M2
22	525 V	8.33	10	96.20	9.16	340	370	115	125	LTBCU308M2
23	525 V	10	12	115.49	11.00	340	370	115	125	LTBCU310M2
24	525 V	12.5	15	144.36	13.75	340	370	115	150	LTBCU312M2
25	525 V	15	18	173.23	16.50	340	370	115	175	LTBCU315M2
26	525 V	20	24	230.97	21.99	340	370	115	200	LTBCU320M2
27	525 V	25	30	288.72	27.49	340	370	115	250	LTBCU325M2
28	525 V	30	36	346.46	32.99	340	370	115	275	LTBCU330M2
29	525 V	50	60	577.43	54.99	340	370	115	425	LTBCU350M2

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