

EPCOS Product Profile

# Power Factor Correction

Power Quality Solutions



# SquareCap PFC Capacitors

Semi-dry biodegradable resin • Modular construction • Triple safety system

## General

The SquareCap box type capacitor is self standing in nature and is having modular construction (above 6KVAR) in a sheet metal enclosure.

It is a very popular capacitor design in India for many decades.

The SquareCap series is especially intended for use in industrial applications and locations such as commercial complexes, malls etc. The internal construction comprises of single phase basic capacitors cells connected to form delta construction externally within the enclosure. The terminal arrangement is of stud type.

SquareCap series is available in three designs:

**ENDC:** EPCOS Normal Duty Capacitor for normal inductive loads.

**EHDLL:** EPCOS Heavy Duty Long life Capacitor for loads exhibiting some amount of non-linearity. (Preferably with detuning reactor).

**ESHDC:** EPCOS Super Heavy Duty Capacitor for non linear arduous and fluctuating loads and systems containing higher degree of harmonics. (Preferably with detuning reactor).



## Applications

- Stand alone capacitors (Fixed Compensation)
- Capacitor banks
- Detuned capacitor banks
- Dynamic PFC

## Features

- Box Type self standing Design
- Voltage Range: 415V ... 525V
- Range: 1kVAr to 60kVAr
- Resin Impregnated
- Available in three designs Viz. ENDC, EHDLL and ESHDC

## Electrical

- High pulse current withstand capability
- Very high life expectancy

## Mechanical and maintenance

- Reduced mounting costs
- Maintenance-free

## Safety

- Self-healing
- Overpressure disconnecter
- Sheet metal enclosure

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SquareCap EHDLL Capacitors - 3 Phase								
Rating KVAR	Voltage V (AC)	Material code	I <sub>r</sub> A	C <sub>N</sub> μF (Basic cells x μF)	H x W x D mm	Packing units	MOQ	Approx. weight Kg
SquareCap EHDLL - 415 V(AC) 3PH, 50Hz (Series B32459)								
1	415	B32459L4001A 11	1.3	3 x 6.3	170 x 125 x 45	1	20	1.0
2	415	B32459L4002A 11	2.7	3 x 12.5	170 x 125 x 45	1	20	1.1
3	415	B32459L4003A 11	4.1	3 x 19	215 x 185 x 60	1	20	1.5
4	415	B32459L4004A 11	5.5	3 x 25	215 x 185 x 60	1	20	1.6
5	415	B32459L4005A 11	7.0	3 x 31	215 x 185 x 60	1	1	1.8
7	415	B32459L4007A 11	10.4	3 x 46.5	300 x 240 x 80	1	1	3.2
7.5	415	B32459L4007A511	10.4	3 x 49.5	300 x 240 x 80	1	1	3.3
10	415	B32459L4010A 11	13.9	3 x 62	300 x 240 x 80	1	1	3.4
12.5	415	B32459L4012A511	17.3	3 x 77	300 x 240 x 80	1	1	3.5
15	415	B32459L4015A 11	20.8	3 x 92	300 x 240 x 80	1	1	4.0
20	415	B32459L4020A 11	27.8	6 x 62	300 x 240 x 160	1	1	6.1
25	415	B32459L4025A 11	34.7	6 x 77	300 x 240 x 160	1	1	6.5
30	415	B32459L4030A 11	41.7	6 x 92.4	300 x 240 x 160	1	1	7.5
40	415	B32459L4040A 11	55.6	12 x 61.6	350 x 240 x 320	1	1	11.0
50	415	B32459L4050A 11	69.5	12 x 77	350 x 240 x 320	1	1	11.8
SquareCap EHDLL - 440 V(AC) 3PH, 50Hz (Series B32459)								
1	440	B32459L5001A 11	1.3	3 x 5.5	170 x 125 x 45	1	20	0.9
2	440	B32459L5002A 11	2.6	3 x 11	170 x 125 x 45	1	20	0.9
3	440	B32459L5003A 11	3.9	3 x 16.5	215 x 185 x 60	1	20	1.5
4	440	B32459L5004A 11	5.2	3 x 22	215 x 185 x 60	1	20	1.5
5	440	B32459L5005A 11	6.5	3 x 27.5	215 x 185 x 60	1	1	1.6
6	440	B32459L5006A 11	7.9	3 x 33	300 x 240 x 80	1	1	2.7
7	440	B32459L5007A 11	9.2	3 x 38.5	300 x 240 x 80	1	1	3.0
7.5	440	B32459L5007A511	9.8	3 x 41.5	300 x 240 x 80	1	1	3.0
8	440	B32459L5008A 11	10.5	3 x 44	300 x 240 x 80	1	1	3.2
9	440	B32459L5009A 11	11.8	3 x 50	300 x 240 x 80	1	1	3.3
10	440	B32459L5010A 11	13.1	3 x 55	300 x 240 x 80	1	1	3.3
12	440	B32459L5012A 11	15.8	3 x 67.5	300 x 240 x 80	1	1	3.4
12.5	440	B32459L5012A511	16.4	3 x 69	300 x 240 x 80	1	1	3.4
15	440	B32459L5015A 11	19.6	3 x 82.5	300 x 240 x 80	1	1	3.5
20	440	B32459L5020A 11	26.2	6 x 55	300 x 240 x 160	1	1	6.1
25	440	B32459L5025A 11	32.8	6 x 69	300 x 240 x 160	1	1	6.3
30	440	B32459L5030A 11	39.4	6 x 82.2	300 x 240 x 160	1	1	6.5
40	440	B32459L5040A 11	52.5	12 x 54.8	350 x 240 x 320	1	1	11.0
50	440	B32459L5050A 11	65.6	12 x 69	350 x 240 x 320	1	1	12.1
60	440	B32459L5060A 11	78.7	12 x 82.2	350 x 240 x 320	1	1	12.1

# SquareCap PFC Capacitors

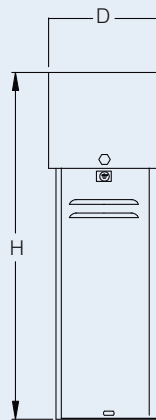
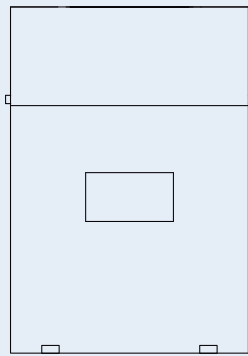
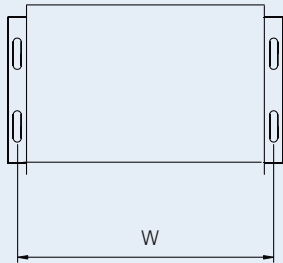
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SquareCap EHDLL Capacitors - 3 Phase								
Rating KVAR	Voltage V (AC)	Material code	I <sub>r</sub> A	C <sub>N</sub> μF (Basic cells x μF)	H x W x D mm	Packing units	MOQ	Approx. weight
<b>SquareCap EHDLL - 480 V(AC) 3PH, 50Hz (Series B32459)</b>								
5	480	B32459L8005A 61	6.0	3 x 23	215 x 185 x 60	1	1	1.8
5.5	480	B32459L8005A561	6.6	3 x 25.3	215 x 185 x 60	1	1	2.3
6	480	B32459L8006A 61	7.2	3 x 28	300 x 240 x 80	1	1	2.6
7.5	480	B32459L8007A561	9.0	3 x 34.5	300 x 240 x 80	1	1	2.8
8.3	480	B32459L8008A361	10	3 x 38.2	300 x 240 x 80	1	1	2.9
9	480	B32459L8009A 61	10.8	3 x 41.5	300 x 240 x 80	1	1	3.0
10	480	B32459L8010A 61	12.0	3 x 46.5	300 x 240 x 80	1	1	3.1
11.1	480	B32459L8011A161	13.4	3 x 51.1	300 x 240 x 80	1	1	3.2
12	480	B32459L8012A 61	14.4	3 x 55.5	300 x 240 x 80	1	1	3.3
12.5	480	B32459L8012A561	14.4	3 x 58	300 x 240 x 80	1	1	3.3
13.8	480	B32459L8013A861	16.6	3 x 63.6	300 x 240 x 80	1	1	3.4
14.5	480	B32459L8014A561	17.4	3 x 67.5	300 x 240 x 80	1	1	3.4
15	480	B32459L8015A 61	18.0	3 x 69	300 x 240 x 80	1	1	3.5
16.6	480	B32459L8016A661	20	3 x 76.4	300 x 240 x 160	1	1	3.5
18	480	B32459L8018A 61	21.6	6 x 41.5	300 x 240 x 160	1	1	5.8
20	480	B32459L8020A 61	24.0	6 x 46.5	300 x 240 x 160	1	1	6.0
22.1	480	B32459L8022A161	26.6	6 x 51.1	300 x 240 x 160	1	1	6.2
25	480	B32459L8025A 61	30.0	6 x 58	300 x 240 x 160	1	1	6.3
27.7	480	B32459L8027A761	33.3	6 x 63.6	300 x 240 x 160	1	1	6.5
29	480	B32459L8029A 61	34.8	6 x 67.5	300 x 240 x 160	1	1	6.7
50	480	B32459L8050A 61	60.1	12 x 58	350 x 240 x 320	1	1	11.2
55	480	B32459L8055A 61	66.1	12 x 63.5	350 x 240 x 320	1	1	11.4
<b>SquareCap EHDLL - 525 V(AC) 3PH, 50Hz (Series B32459)</b>								
6.6	525	B32459L6006A611	7.3	3 x 25.4	300 x 240 x 80	1	1	1.8
10	525	B32459L6010A 11	11	3 x 38.5	300 x 240 x 80	1	1	3.0
12.5	525	B32459L6012A511	13.7	3 x 48	300 x 240 x 80	1	1	3.2
13.2	525	B32459L6013A211	14.5	3 x 50.8	300 x 240 x 80	1	1	3.3
15	525	B32459L6015A 11	16.5	3 x 58	300 x 240 x 80	1	1	3.4
16.6	525	B32459L6016A611	18.3	3 x 63.9	300 x 240 x 160	1	1	3.5
19.9	525	B32459L6019A911	22	3 x 76.6	300 x 240 x 160	1	1	3.6
20	525	B32459L6020A 11	21.9	6 x 38.5	300 x 240 x 160	1	1	5.8
25	525	B32459L6025A 11	27.4	6 x 48	300 x 240 x 160	1	1	6.5
26.5	525	B32459L6026A511	29.1	6 x 50.8	300 x 240 x 160	1	1	6.5
30	525	B32459L6030A 11	32.9	6 x 58	300 x 240 x 160	1	1	6.8
33.1	525	B32459L6033A111	36.4	6 x 63.9	300 x 240 x 160	1	1	7.0
50	525	B32459L6050A 11	55	12 x 48	350 x 240 x 320	1	1	11.0

# SquareCap PFC Capacitors

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SquareCap : Overall dimensions and information table



KVAr rating	Mounting brackets fixed/ separate/ sliding	Louvers/ holes	Basic cell	Mounting
<b>ENDC/EHDLL</b>				
1 to 2	fixed bracket	no	3	- - - -
3 to 5	fixed bracket	no	3	2 holes
6 to 15	seperate bracket	holes	3	2 slot
16 to 30	sliding bracket	2 louvers	6	4 slot
31 to 60	sliding bracket	8 louvers	6	12 slot
<b>ESHDC</b>				
1 to 2	fixed bracket	no	3	- - - -
3 to 5	fixed bracket	holes	3	2 slot
6 to 13	seperate bracket	holes	3	2 slot
14 to 25	sliding bracket	4 louvers	6	4 slot
26 to 50	sliding bracket	8 louvers	12	4 slot

SquareCap : Exploded view

