



Price List 2025

# Power Factor Correction (PFC) Capacitors and Key Components

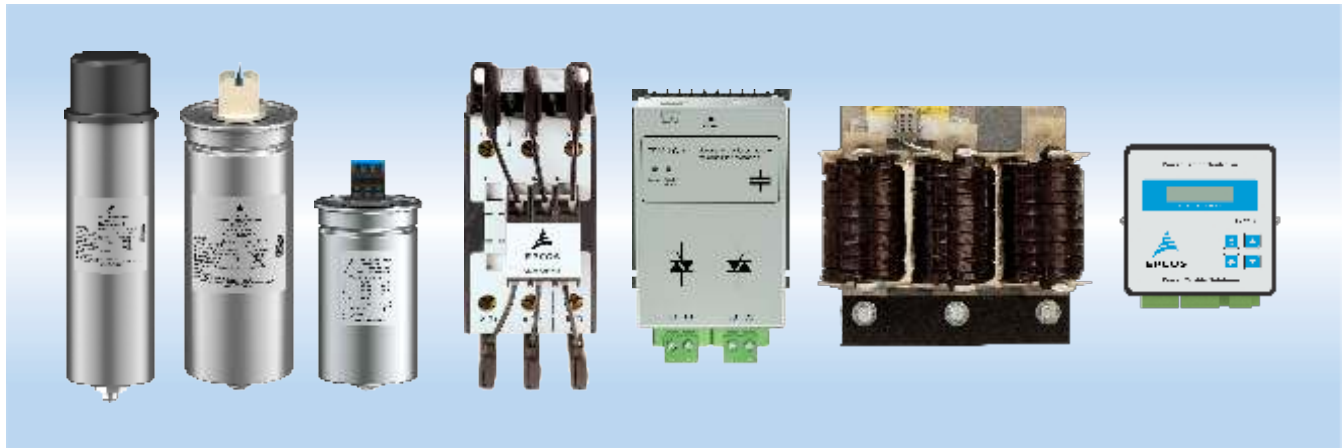
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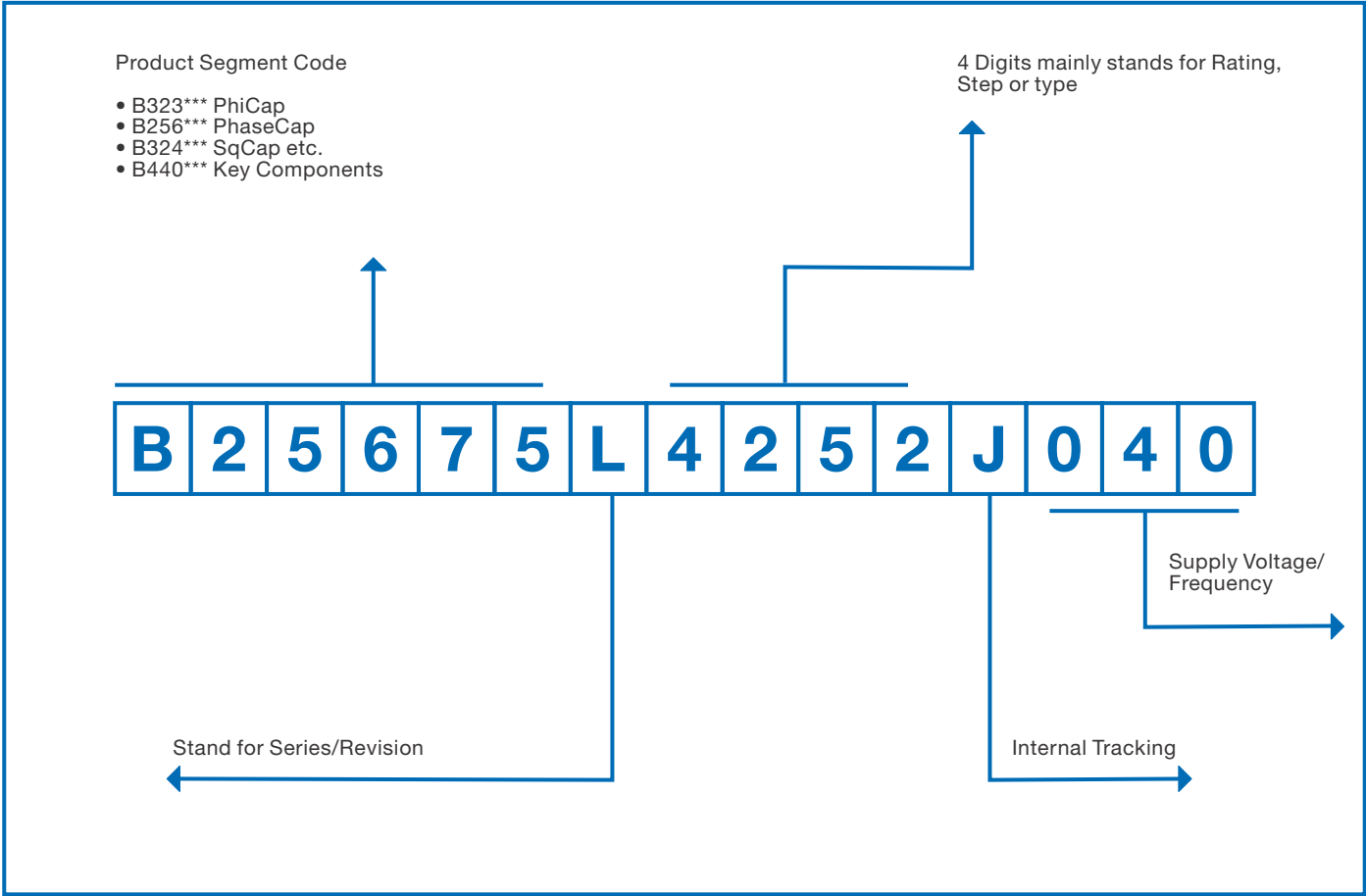
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# Ordering Codes/Part Nomenclature Example



# PhiCap EHD (Gas)



\*EHD = Extra Heavy Duty

- Non-flammable Dry Type Inert Gas as Impregnant
- Reinforced Design:
  - ❖ Over Current: 2x In | Inrush Current: 300x In
- Electro-Sensitive applications:
  - ❖ Oil & Gas | Hospitals | Data centres | Pharma | Automobile

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# LV PFC Capacitor

## PhiCap Normal Duty



<b>Series</b>	PhiCap Normal Duty B32344
<b>Technical data</b>	1 to 30 kVAr Single Unit Rated Voltage: 440 V to 525 V
<b>Features</b>	<ul style="list-style-type: none"> <li>• Manufactured using state-of-art metalisation process for MPP film with heavy edge</li> <li>• Self healing property</li> <li>• Low energy consumption</li> <li>• Soft biodegradable resin as impregnant</li> <li>• Safety device in the form of pressure sensitive (over pressure) mechanical interrupter</li> <li>• Temp class : -25/D</li> </ul>
<b>Specification</b>	Conformance to Standards IEC 60831-1 & 2, IS 13340
<b>Applications</b>	<ul style="list-style-type: none"> <li>• Power Factor Correction (PFC) automatic capacitor banks</li> <li>• Fixed PFC applications, e.g. motor compensation</li> <li>• Detuned PFC systems</li> <li>• Dynamic PFC systems</li> </ul>

Rating kVAr	Description	Material Code	Voltage	IR (A)	CN (nF)	D x H mm	Packing Units	MOQ	MRP List/ Pc in INR
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### PhiCap Normal Duty 440 V(AC) 3Ph, 50Hz (Series B32344)

1	PhiCap ND 440V 50Hz 1kVAr 3Ph	B32344N4012B040	440	1.3	3 x 5.5	50 x 75	36	36	578
1.2	PhiCap ND 440V50Hz 1.2kVAr 3Ph	B32344N4012B240	440	1.6	3 x 6.6	50 x 75	36	36	695
2	PhiCap ND 440V 50Hz 2kVAr 3Ph	B32344N4022B040	440	2.6	3 x 11.0	50 x 112	36	36	844
2.5	PhiCap ND 440V 50Hz 2.5kvar 3PH	B32344N4022B540	440	3.3	3 x 13.7	50 x 112	36	36	1,035
3	PhiCap ND 440V 50Hz 3kVAr 3Ph	B32344N4032B040	440	3.9	3 x 16.4	55 x 112	25	25	1,241
4	PhiCap ND 440V 50Hz 4kVAr 3Ph	B32344N4042B040	440	5.2	3 x 21.9	55 x 137	25	25	1,260
5	PhiCap ND 440V 50Hz 5kVAr 3Ph	B32344N4052B040	440	6.6	3 x 27.4	55 x 147	25	25	1,531
7	PhiCap ND 440V 50Hz 7kVAr 3Ph	B32344N4072B040	440	9.2	3 x 38.4	63.5 x 146	25	25	2,134
7.5	PhiCap ND 440V 50Hz 7.5kVAr 3Ph	B32344N4072B540	440	9.8	3 x 41.1	75 x 157	1	1	2,287
8.3	PhiCap ND 440V 50Hz 8.3KVAR 3Ph	B32344N4082B340	440	10.9	3 x 45.5	75 x 157	1	1	2,529
10	PhiCap ND 440V 50Hz 10kVAr 3Ph	B32344N4102B040	440	13.1	3 x 54.8	75 x 167	1	1	3,045
12.5	PhiCap ND 440V 50Hz 12.5kVAr 3Ph	B32344N4122B540	440	16.4	3 x 68.5	75 x 197	1	1	3,807
15	PhiCap ND 440V 50Hz 15kVAr 3Ph	B32344N4152B040	440	19.7	3 x 82.2	85 x 197	1	1	4,568
20	PhiCap ND 440V 50Hz 20kVAr 3Ph	B32344N4202B040	440	26.2	3 x 109.6	75 x 272	1	1	6,092
25	PhiCap ND 440V 50Hz 25 kVAr 3Ph	B32344N4252B040	440	32.8	3 x 137.0	85 x 272	1	1	7,613
30	PhiCap ND 440V 50Hz 30 kVAr 3Ph	B32344N4302B040	440	39.4	3 x 164.4	90 x 272	1	1	9,137

### PhiCap Normal Duty 480 V(AC) 3Ph, 50Hz (Series B32344)


5	PhiCap ND 480V 50Hz 5kVAr 3Ph	B32344N4052B080	480	6.0	3 x 23.0	63.5 x 136	25	25	1,531
5.5	PhiCap ND 480V 50Hz 5.5kVAr 3Ph	B32344N4052B580	480	6.6	3 x 25.3	63.5 x 136	25	25	1,695
8.3	PhiCap ND 480V 50Hz 8.3kVAr 3Ph	B32344N4082B380	480	10.0	3 x 38.2	75 x 167	1	1	2,528
10.4	PhiCap ND 480V 50Hz 10.4kVAr 3Ph	B32344N4102B480	480	12.5	3 x 47.9	75 x 197	1	1	3,167
11.1	PhiCap ND 480V 50Hz 11.1kVAr 3Ph	B32344N4112B180	480	13.4	3 x 51.1	75 x 197	1	1	3,381
12.5	PhiCap ND 480V 50Hz 12.5kVAr 3Ph	B32344N4122B580	480	15.0	3 x 57.6	75 x 197	1	1	3,807
15	PhiCap ND 480V 50Hz 15kVAr 3Ph	B32344N4152B080	480	18.0	3 x 69.1	85 x 197	1	1	4,568
16.7	PhiCap ND 480V 50Hz 16.7kVAr 3Ph	B32344N4162B780	480	20.1	3 x 76.9	85 x 197	1	1	5,086
20.8	PhiCap ND 480V 50Hz 20.8kVAr 3Ph	B32344N4202B880	480	25.0	3 x 95.8	75 x 272	1	1	6,336
22.1	PhiCap ND 480V 50Hz 22.1kVAr 3Ph	B32344N4222B180	480	26.6	3 x 101.8	85 x 272	1	1	6,728

# LV PFC Capacitor

Rating kVAr	Description	Material Code	Voltage	IR (A)	CN (nF)	D x H mm	Packing Units	MOQ	MRP List/ Pc in INR
<b>PhiCap Normal Duty 480 V(AC) 3Ph, 50Hz (Series B32344)</b>									
25	PhiCap ND 480V 50Hz 25kVAr 3Ph	B32344N4252B080	480	30.1	3 x 115.1	85 x 272	1	1	<b>7,613</b>
27.7	PhiCap ND 480V 50Hz 27.7kVAr 3Ph	B32344N4272B780	480	33.3	3 x 127.5	90 x 272	1	1	<b>8,436</b>
30	PhiCap ND 480V 50Hz 30kVAr 3Ph	B32344N4302B080	480	36.1	3 x 138.1	90 x 272	1	1	<b>9,137</b>
<b>PhiCap Normal Duty 525 V(AC) 3Ph, 50Hz (Series B32344)</b>									
5	PhiCap ND 525V 50Hz 5kVAr 3Ph	B32344N5052B025	525	5.5	3 x 19.2	63.5 x 146	25	25	<b>1,531</b>
6.6	PhiCap ND 525V 50Hz 6.6kVAr 3Ph	B32344N5062B625	525	7.3	3 x 25.4	75 x 157	1	1	<b>2,100</b>
7.5	PhiCap ND 525V 50Hz 7.5kVAr 3Ph	B32344N5072B525	525	8.2	3 x 28.9	75 x 167	1	1	<b>2,285</b>
10.4	PhiCap ND 525V 50Hz 10.4kVAr 3Ph	B32344N5102B425	525	11.4	3 x 40.0	75 x 197	1	1	<b>3,167</b>
13.2	PhiCap ND 525V 50Hz 13.2kVAr 3Ph	B32344N5132B225	525	14.5	3 x 50.8	85 x 197	1	1	<b>4,022</b>
16.7	PhiCap ND 525V 50Hz 16.7kVAr 3Ph	B32344N5162B725	525	18.4	3 x 64.3	75 x 272	1	1	<b>5,086</b>
20.8	PhiCap ND 525V 50Hz 20.8kVAr 3Ph	B32344N5202B825	525	22.9	3 x 80.1	85 x 272	1	1	<b>6,336</b>
25	PhiCap ND 525V 50Hz 25kVAr 3Ph	B32344N5252B025	525	27.5	3 x 96.2	85 x 272	1	1	<b>7,613</b>

# LV PFC Capacitor

## PhiCap Heavy Duty

	<b>Series</b>	PhiCap Heavy Duty B32447 and B32448
	<b>Technical data</b>	1 to 33.1 kVAr Single Unit Rated Voltage: 440 V to 525 V
	<b>Features</b>	<ul style="list-style-type: none"> <li>• Manufactured using state-of-art metalisation process for MPP film with heavy edge</li> <li>• Self-healing property</li> <li>• Low energy consumption</li> <li>• Capable of withstanding high inrush current for non-linear loads</li> <li>• Soft biodegradable resin as impregnant</li> <li>• Three phase safety device in the form of pressure sensitive (over pressure) mechanical interrupter</li> <li>• Temp class: -25/D</li> </ul>
	<b>Specification</b>	Conformance to Standards IEC 60831-1 & 2, IS 13340
	<b>Applications</b>	<ul style="list-style-type: none"> <li>• Power Factor Correction (PFC) automatic capacitor banks</li> <li>• Fixed PFC applications, e.g. motor compensation</li> <li>• Detuned PFC systems</li> <li>• Dynamic PFC systems</li> </ul>

Rating kVAr	Description	Material Code	Voltage	IR (A)	CN (nF)	D x H mm	Packing Units	MOQ	MRP List/ Pc in INR
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### PhiCap Heavy Duty 440 V(AC) 3Ph, 50Hz (Series B32447 and B32448)

1.0	PhiCap HD DFOC 440V 50Hz 1kvar 3Ph	B32447H4012B040	440	1.3	3 x 5.5	50 x 75	36	36	794
2.0	PhiCap HD DFOC 440V 50Hz 2kvar 3Ph	B32447H4022B040	440	2.6	3 x 11.0	50 x 112	36	36	914
3.0	PhiCap HD DFOC 440V 50Hz 3kvar 3Ph	B32447H4032B040	440	3.9	3 x 16.4	55 x 112	25	25	1,373
4.0	PhiCap HD DFOC 440V 50Hz 4kvar 3Ph	B32447H4042B040	440	5.2	3 x 21.9	55 x 137	25	25	1,541
5.0	PhiCap HD DFOC 440V 50Hz 5kvar 3Ph	B32447H4052B040	440	6.6	3 x 27.4	55 x 147	25	25	1,871
6.0	PhiCap HD DFOC 440V 50Hz 6kvar 3Ph	B32447H4062B040	440	7.9	3 x 32.9	63.5 x 136	25	25	2,224
7.5	PhiCap HD SIG 440V 50Hz 7.5kvar 3Ph	B32448H4072B540	440	9.8	3 x 41.1	75 x 162	1	1	2,850
8.3	PhiCap HD SIG 440V 50Hz 8.3kvar 3Ph	B32448H4082B340	440	10.9	3 x 45.5	75 x 162	1	1	3,158
10.0	PhiCap HD SIG 440V 50Hz 10kvar 3Ph	B32448H4102B040	440	13.1	3 x 54.8	75 x 197	1	1	3,799
12.5	PhiCap HD SIG 440V 50Hz 12.5kvar 3Ph	B32448H4122B540	440	16.4	3 x 68.5	75 x 197	1	1	4,750
15.0	PhiCap HD SIG 440V 50Hz 15kvar 3Ph	B32448H4152B040	440	19.7	3 x 82.2	85 x 197	1	1	5,697
20.0	PhiCap HD SIG 440V 50Hz 20kvar 3Ph	B32448H4202B040	440	26.2	3 x 109.6	75 x 272	1	1	7,596
25.0	PhiCap HD SIG 440V 50Hz 25kvar 3Ph	B32448H4252B040	440	32.8	3 x 137.0	85 x 272	1	1	9,496
30.0	PhiCap HD SIG 440V 50Hz 30kvar 3Ph	B32448H4302B040	440	39.4	3 x 164.4	90 x 272	1	1	11,395

### PhiCap Heavy Duty 480 V(AC) 3Ph, 50Hz (Series B32447 and B32448)



5.0	PhiCap HD DFOC 480V 50Hz 5.0kvar 3Ph	B32447H4052B080	480	6.0	3 x 23.0	63.5 x 136	25	25	1,871
5.5	PhiCap HD DFOC 480V 50Hz 5.5kvar 3Ph	B32447H4052B580	480	6.6	3 x 25.3	63.5 x 136	25	25	2,060
6.3	PhiCap HD DFOC 480V 50Hz 6.3kvar 3Ph	B32447H4062B380	480	7.6	3 x 29.0	63.5 x 146	25	25	2,392
8.3	PhiCap HD SIG 480V 50Hz 8.3kvar 3Ph	B32448H4082B380	480	10.0	3 x 38.2	75 x 162	1	1	3,154
10.4	PhiCap HD SIG 480V 50Hz 10.4kvar 3Ph	B32448H4102B480	480	12.5	3 x 47.9	75 x 197	1	1	3,950
11.1	PhiCap HD SIG 480V 50Hz 11.1kvar 3Ph	B32448H4112B180	480	13.4	3 x 51.1	75 x 197	1	1	4,217
12.5	PhiCap HD SIG 480V 50Hz 12.5kvar 3Ph	B32448H4122B580	480	15.0	3 x 57.6	75 x 197	1	1	4,750
13.8	PhiCap HD SIG 480V 50Hz 13.8kvar 3Ph	B32448H4132B880	480	16.6	3 x 63.5	85 x 197	1	1	5,244
15.0	PhiCap HD SIG 480V 50Hz 15kvar 3Ph	B32448H4152B080	480	18.0	3 x 69.1	85 x 197	1	1	5,697
16.7	PhiCap HD SIG 480V 50Hz 16.7kvar 3Ph	B32448H4162B780	480	20.1	3 x 76.9	85 x 197	1	1	6,344
18.7	PhiCap HD SIG 480V 50Hz 18.7kvar 3Ph	B32448H4182B780	480	22.5	3 x 86.1	75 x 272	1	1	7,104
20.0	PhiCap HD SIG 480V 50Hz 20kvar 3Ph	B32448H4202B080	480	24.1	3 x 92.1	75 x 272	1	1	7,596
22.0	PhiCap HD SIG 480V 50Hz 22kvar 3Ph	B32448H4222B080	480	26.5	3 x 101.3	85 x 272	1	1	8,358

# LV PFC Capacitor

Rating kVAR	Description	Material Code	Voltage	IR (A)	CN (µF)	D x H mm	Packing Units	MOQ	MRP List/ Pc in INR
<b>PhiCap Heavy Duty 480 V(AC) 3Ph, 50Hz (Series B32447 and B32448)</b>									
25.0	PhiCap HD SIG 480V 50Hz 25kvar 3Ph	B32448H4252B080	480	30.1	3 x 115.1	85 x 272	1	1	<b>9,496</b>
27.7	PhiCap HD SIG 480V 50Hz 27.7kvar 3Ph	B32448H4272B780	480	33.3	3 x 127.5	90 x 272	1	1	<b>10,523</b>
28.1	PhiCap HD SIG 480V 50Hz 28.1kvar 3Ph	B32448H4282B180	480	33.8	3 x 129.4	90 x 272	1	1	<b>10,674</b>
30.0	PhiCap HD SIG 480V 50Hz 30kvar 3Ph	B32448H4302B080	480	36.1	3 x 138.1	90 x 272	1	1	<b>11,395</b>
<b>PhiCap Heavy Duty 525 V(AC) 3Ph, 50Hz (Series B32447 and B32448)</b>									
5.0	PhiCap HD DFOC 525V 50Hz 5kvar 3Ph	B32447H5052B025	525	5.5	3 x 19.2	63.5 x 146	25	25	<b>1,871</b>
6.3	PhiCap HD SIG 525V 50Hz 6.3kvar 3Ph	B32448H5062B325	525	6.9	3 x 24.2	75 x 162	1	1	<b>2,392</b>
6.6	PhiCap HD SIG 525V 50Hz 6.6kvar 3Ph	B32448H5062B625	525	7.3	3 x 25.4	75 x 162	1	1	<b>2,505</b>
8.3	PhiCap HD SIG 525V 50Hz 8.3kvar 3Ph	B32448H5082B325	525	9.1	3 x 31.9	75 x 162	1	1	<b>3,154</b>
10.4	PhiCap HD SIG 525V 50Hz 10.4kvar 3Ph	B32448H5102B425	525	11.4	3 x 40.0	75 x 197	1	1	<b>3,950</b>
12.5	PhiCap HD SIG 525V 50Hz 12.5kvar 3Ph	B32448H5122B525	525	13.7	3 x 48.1	85 x 197	1	1	<b>4,750</b>
13.2	PhiCap HD SIG 525V 50Hz 13.2kvar 3Ph	B32448H5132B225	525	14.5	3 x 50.8	85 x 197	1	1	<b>5,015</b>
15.0	PhiCap HD SIG 525V 50Hz 15kvar 3Ph	B32448H5152B025	525	16.5	3 x 57.7	85 x 197	1	1	<b>5,683</b>
16.7	PhiCap HD SIG 525V 50Hz 16.7kvar 3Ph	B32448H5162B725	525	18.4	3 x 64.3	75 x 272	1	1	<b>6,344</b>
20.0	PhiCap HD SIG 525V 50Hz 20kvar 3Ph	B32448H5202B025	525	22.0	3 x 77.0	85 x 272	1	1	<b>7,596</b>
25.0	PhiCap HD SIG 525V 50Hz 25kvar 3Ph	B32448H5252B025	525	27.5	3 x 96.2	85 x 272	1	1	<b>9,496</b>
26.5	PhiCap HD SIG 525V 50Hz 26.5kvar 3Ph	B32448H5262B525	525	29.1	3 x 102.0	90 x 272	1	1	<b>10,065</b>
30.0	PhiCap HD SIG 525V 50Hz 30kvar 3Ph	B32448H5302B025	525	33.0	3 x 115.5	85 x 348	1	1	<b>11,395</b>
33.1	PhiCap HD SIG 525V 50Hz 33.1kvar 3Ph	B32448H5332B125	525	36.4	3 x 127.4	85 x 348	1	1	<b>12,575</b>

# LV PFC Capacitor

## PhiCap EHD (Gas)

	<b>Series</b>	PhiCap EHD (Gas) B32474G 
	<b>Technical data</b>	6.3 to 33.1 kVAr Voltage : 440 V to 525 V
	<b>Features</b>	<ul style="list-style-type: none"> <li>• Self-healing technology</li> <li>• Naturally air cooled (or forced air cooling)</li> <li>• Optimized capacitor safety terminals</li> <li>• Gas-impregnated, dry type, Non PCB</li> <li>• Provided with external discharge resistor</li> <li>• Overpressure disconnecter for all 3 phases</li> </ul>
	<b>Specification</b>	Conformance to standards IEC 60831-1 & 2, IS:13340
	<b>Applications</b>	<ul style="list-style-type: none"> <li>• Power factor correction in Automatic Banks</li> <li>• Fixed PFC applications</li> <li>• Tuned and Detuned PFC systems</li> <li>• Dynamic PFC Systems</li> </ul>


Rating kVAr	Description	Material Code	Voltage	IR (A)	CN (nF)	D x H mm	Packing Units	MOQ	MRP List/ Pc in INR
<b>PhiCap EHD (Gas) - 440 V(AC) 3Ph, 50Hz (Series B32474G)</b>									
7.5	PhiCap EHD SIG Gas 440V 50Hz 7.5kVAr 3Ph	B32474G4072A540	440	9.8	3 x 41.1	75 x 172	1	1	3,421
8.3	PhiCap EHD SIG Gas 440V 50Hz 8.3kVAr 3Ph	B32474G4082A340	440	10.9	3 x 45.5	75 x 172	1	1	3,347
10	PhiCap EHD SIG Gas 440V 50Hz 10kVAr 3Ph	B32474G4102A040	440	13.1	3 x 54.8	75 x 208	1	1	4,028
12.5	PhiCap EHD SIG Gas 440V 50Hz 12.5kVAr 3Ph	B32474G4122A540	440	16.4	3 x 68.5	75 x 208	1	1	5,036
15	PhiCap EHD SIG Gas 440V 50Hz 15kVAr 3Ph	B32474G4152A040	440	19.7	3 x 82.2	85 x 208	1	1	6,040
20	PhiCap EHD SIG Gas 440V 50Hz 20kVAr 3Ph	B32474G4202A040	440	26.2	3 x 109.6	75 x 283	1	1	8,051
25	PhiCap EHD SIG Gas 440V 50Hz 25kVAr 3Ph	B32474G4252A040	440	32.8	3 x 137.0	85 x 283	1	1	10,067
30	PhiCap EHD SIG Gas 440V 50Hz 30kVAr 3Ph	B32474G4302A040	440	39.4	3 x 164.4	90 x 283	1	1	12,079
<b>PhiCap EHD (Gas) - 480 V(AC) 3Ph, 50Hz (Series B32474G)</b>									
8.3	PhiCap EHD SIG Gas 480V 50Hz 8.3kVAr 3Ph	B32474G4082A380	480	10.0	3 x 38.2	75 x 172	1	1	3,784
10.4	PhiCap EHD SIG Gas 480V 50Hz 10.4kVAr 3Ph	B32474G4102A480	480	12.5	3 x 47.9	75 x 208	1	1	4,187
11.1	PhiCap EHD SIG Gas 480V 50Hz 11.1kVAr 3Ph	B32474G4112A180	480	13.4	3 x 51.1	75 x 208	1	1	4,469
12.5	PhiCap EHD SIG Gas 480V 50Hz 12.5kVAr 3Ph	B32474G4122A580	480	15.0	3 x 57.6	75 x 208	1	1	5,036
15.0	PhiCap EHD SIG Gas 480V 50Hz 15kVAr 3Ph	B32474G4152A080	480	18.0	3 x 69.1	85 x 208	1	1	6,040
16.7	PhiCap EHD SIG Gas 480V 50Hz 16.7kVAr 3Ph	B32474G4162A780	480	20.1	3 x 76.9	85 x 208	1	1	6,724
20.0	PhiCap EHD SIG Gas 480V 50Hz 20kVAr 3Ph	B32474G4202A080	480	24.1	3 x 92.1	75 x 283	1	1	8,051
22.0	PhiCap EHD SIG Gas 480V 50Hz 22kVAr 3Ph	B32474G4222A080	480	26.5	3 x 101.3	85 x 283	1	1	8,860
25.0	PhiCap EHD SIG Gas 480V 50Hz 25kVAr 3Ph	B32474G4252A080	480	30.1	3 x 115.1	85 x 283	1	1	10,067
27.7	PhiCap EHD SIG Gas 480V 50Hz 27.7kVAr 3Ph	B32474G4272A780	480	33.3	3 x 127.5	90 x 283	1	1	11,155
30.0	PhiCap EHD SIG Gas 480V 50Hz 30kVAr 3Ph	B32474G4302A080	480	36.1	3 x 142.7	90 x 283	1	1	12,079
<b>PhiCap EHD (Gas) - 525 V(AC) 3Ph, 50Hz (Series B32474G)</b>									
6.3	PhiCap EHD SIG Gas 525V 50Hz 6.3kVAr 3Ph	B32474G5062A325	525	6.9	3 x 24.2	75 x 172	1	1	3,062
6.6	PhiCap EHD SIG Gas 525V 50Hz 6.6kVAr 3Ph	B32474G5062A625	525	7.3	3 x 25.4	75 x 172	1	1	3,207
10.4	PhiCap EHD SIG Gas 525V 50Hz 10.4kVAr 3Ph	B32474G5102A425	525	11.4	3 x 40.0	75 x 208	1	1	4,187
12.5	PhiCap EHD SIG Gas 525V 50Hz 12.5kVAr 3Ph	B32474G5122A525	525	13.7	3 x 48.1	85 x 208	1	1	5,036

# LV PFC Capacitor

Rating kVAr	Description	Material Code	Voltage	IR (A)	CN (nF)	D x H mm	Packing Units	MOQ	MRP List/ Pc in INR
<b>PhiCap EHD (Gas) - 525 V(AC) 3Ph, 50Hz (Series B32474G)</b>									
13.2	PhiCap EHD SIG Gas 525V 50Hz 13.2kVAr 3Ph	B32474G5132A225	525	14.6	3 x 50.8	85 x 208	1	1	<b>5,317</b>
15.0	PhiCap EHD SIG Gas 525V 50Hz 15kVAr 3Ph	B32474G5152A025	525	16.5	3 x 57.7	85 x 208	1	1	<b>6,023</b>
16.7	PhiCap EHD SIG Gas 525V 50Hz 16.7kVAr 3Ph	B32474G5162A725	525	18.4	3 x 64.3	75 x 283	1	1	<b>6,724</b>
20.0	PhiCap EHD SIG Gas 525V 50Hz 20kVAr 3Ph	B32474G5202A025	525	22.0	3 x 77.0	85 x 283	1	1	<b>8,051</b>
25.0	PhiCap EHD SIG Gas 525V 50Hz 25kVAr 3Ph	B32474G5252A025	525	27.5	3 x 96.2	85 x 283	1	1	<b>10,067</b>
30.0	PhiCap EHD SIG Gas 525V 50Hz 30kVAr 3Ph	B32474G5302A025	525	33.0	3 x 115.5	85 x 358	1	1	<b>12,079</b>
33.1	PhiCap EHD SIG Gas 525V 50Hz 33.1kVAr 3Ph	B32474G5332A125	525	33.1	3 x 127.4	85 x 358	1	1	<b>13,329</b>

# LV PFC Capacitor

## PhaseCap Energy Plus HD (Gas)

	<b>Series</b>	PhaseCap Energy Plus HD (Gas) B25674
	<b>Technical data</b>	1 to 33.1 kVAr Single Unit Voltage : 440 V to 690 V
	<b>Features</b>	<ul style="list-style-type: none"> <li>• Manufactured using state-of-art wavecut technology for MPP film with heavy edge</li> <li>• Self healing property</li> <li>• Low energy consumption</li> <li>• Capable of withstanding high inrush current (Upto 500 IR)</li> <li>• Very High life expectancy up to 2,20,000 Similar to product profile operating hours (-40/D)</li> <li>• Capable for 15,000 switching per year to handle dynamic loads</li> <li>• Three phase safety device in the form of pressure sensitive (over pressure) mechanical interrupter</li> <li>• Compact size and light weight</li> <li>• True Dry type- Gas impregnated</li> <li>• Temp class: -40°C to 60 °C</li> </ul>
	<b>Specification</b>	Conformance to standards IEC 60831-1 & 2, EN60831-1 & 2, IS:13340
	<b>Applications</b>	<ul style="list-style-type: none"> <li>• Automatic PFC equipment, capacitor banks</li> <li>• Individual Fixed PFC (e.g. motors, transformers, lighting)</li> <li>• Group fixed PFC</li> <li>• Tuned and detuned capacitor banks</li> <li>• Dynamic PFC</li> </ul>

Rating kVAr	Description	Material Code	Voltage	IR (A)	CN (mF)	D x H mm	Packing Units	MOQ	MRP List/ Pc in INR
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### PhaseCap Energy Plus HD (Gas) - 440 V(AC) 3Ph, 50Hz (Series B25674L)

5	PhaseCap Energy Plus HD 440V50/60Hz 5/6kVAr 3Ph	B25674L4052J040	440	6.6	3 x 27.4	75 x 164	1	1	3,316
7	PhaseCap Energy Plus HD 440V50/60Hz 7/8.4kVAr 3Ph	B25674L4072J040	440	9.2	3 x 38.4	75 x 200	1	1	4,091
7.5	PhaseCap Energy Plus HD 440V50/60Hz 7.5/9kVAr 3Ph	B25674L4072J540	440	9.8	3 x 41.1	75 x 200	1	1	4,383
10	PhaseCap Energy Plus HD 440V50/60Hz 10/12kVAr 3Ph	B25674L4102J040	440	13.1	3 x 54.8	75 x 200	1	1	4,733
12.5	PhaseCap Energy Plus HD 440V50/60Hz 12.5/15kVAr 3Ph	B25674L4122J540	440	16.4	3 x 68.5	85 x 200	1	1	5,916
15	PhaseCap Energy Plus HD 440V50/60Hz 15/18kVAr 3Ph	B25674L4152J040	440	19.7	3 x 82.2	85 x 218	1	1	7,098
20	PhaseCap Energy Plus HD 440V50/60Hz 20/24kVAr 3Ph	B25674L4202J040	440	26.2	3 x 109.6	100 x 207	1	1	9,465
25	PhaseCap Energy Plus HD 440V50/60Hz 25/30kVAr 3Ph	B25674L4252J040	440	32.8	3 x 137.0	116 x 192	1	1	11,831
30	PhaseCap Energy Plus HD 440V 50Hz 30kVAr 3Ph	B25674L4302J040	440	39.4	3 x 164.4	125 x 192	1	1	14,198

### PhaseCap Energy Plus HD (Gas) - 480 V(AC) 3Ph, 50Hz (Series B25674L)

5.0	PhaseCap Energy Plus HD 480V 50/60Hz 5/6kVAr 3Ph	B25674L4052J080	480	6.0	3 x 23.0	75 x 164	1	1	3,316
6.3	PhaseCap Energy Plus HD 480V50/60Hz 6.3/7.6kVAr 3Ph	B25674L4062J380	480	7.6	3 x 29.0	75 x 164	1	1	3,681
8.3	PhaseCap Energy Plus HD 480V50/60Hz 8.3/10kVAr 3Ph	B25674L4082J380	480	10.0	3 x 38.2	75 x 200	1	1	4,849
11.0	PhaseCap Energy Plus HD 480V50/60Hz 11/13.2kVAr 3Ph	B25674L4112J080	480	13.2	3 x 50.7	85 x 200	1	1	5,204
12.5	PhaseCap Energy Plus HD 480V50/60Hz 12.5/15kVAr 3Ph	B25674L4122J580	480	15.0	3 x 57.6	85 x 200	1	1	5,916
15.0	PhaseCap Energy Plus HD 480V50/60Hz 15/18kVAr 3Ph	B25674L4152J080	480	18.0	3 x 69.1	100 x 207	1	1	7,098
16.7	Phasecap Energy Plus HD 480V50/60Hz 16.7/20kVAr 3Ph	B25674L4162J780	480	20.1	3 x 76.9	100 x 207	1	1	7,904
20.0	PhaseCap Energy Plus HD 480V50/60Hz 20/24kVAr 3Ph	B25674L4202J080	480	24.1	3 x 92.1	100 x 207	1	1	9,465
20.8	PhaseCap Energy Plus HD 480V50/60Hz 20.8/25k3Ph	B25674L4202J880	480	25.0	3 x 95.8	116 x 207	1	1	9,847
22.0	PhaseCap Energy Plus HD 480V50/60Hz 22/26.4kVAr 3Ph	B25674L4222J080	480	26.5	3 x 101.3	116 x 207	1	1	10,412
25.0	PhaseCap Energy Plus HD 480V 50/60Hz 25/30k 3Ph	B25674L4252J080	480	30.1	3 x 115.1	116 x 192	1	1	11,831
28.1	PhaseCap Energy Plus HD 480V 50Hz 28.1kVAr 3Ph	B25674L4282J180	480	33.8	3 x 129.4	116 x 207	1	1	13,299
31.0	PhaseCap Energy Plus HD 480V 50Hz 31kVAr 3Ph	B25674L4312J080	480	37.3	3 x 142.7	125 x 192	1	1	14,671
33.0	PhaseCap Energy Plus HD 480V 50Hz 33kVAr 3Ph	B25674L4332J080	480	39.7	3 x 152.0	116 x 224	1	1	15,618

# LV PFC Capacitor

Rating kVAr	Description	Material Code	Voltage	IR (A)	CN (nF)	D x H mm	Packing Units	MOQ	MRP List/ Pc in INR
<b>PhaseCap Energy Plus HD (Gas) - 525 V(AC) 3Ph, 50Hz (Series B25674L)</b>									
6.3	PhaseCap Energy Plus HD 525V50/60Hz 6.3/7.6kVAr 3Ph	B25674L5062J325	525	6.9	3 x 24.2	75 x 164	1	1	<b>3,681</b>
7.5	PhaseCap Energy Plus HD 525V50/60Hz 7.5/9kVAr 3Ph	B25674L5072J525	525	8.2	3 x 28.9	75 x 185	1	1	<b>4,383</b>
8.3	PhaseCap Energy Plus HD 525V50/60Hz 8.3/10kVAr 3Ph	B25674L5082J325	525	9.1	3 x 31.9	75 x 200	1	1	<b>4,849</b>
10.4	PhaseCap Energy Plus HD 525V50/60Hz 10.4/12.5kVAr 3Ph	B25674L5102J425	525	11.4	3 x 40.0	85 x 185	1	1	<b>4,920</b>
12.5	PhaseCap Energy Plus HD 525V50/60Hz 12.5/15kVAr 3Ph	B25674L5122J525	525	13.7	3 x 48.1	85 x 200	1	1	<b>5,916</b>
13.2	PhaseCap Energy Plus HD 525V50/60Hz 13.2/15.8kVAr 3Ph	B25674L5132J225	525	14.6	3 x 50.8	85 x 200	1	1	<b>6,248</b>
15.0	PhaseCap Energy Plus HD 525V50/60Hz 15/18kVAr 3Ph	B25674L5152J025	525	16.5	3 x 57.7	85 x 218	1	1	<b>7,098</b>
16.7	PhaseCap Energy Plus HD 525V50/60Hz 16.7/20kVAr 3Ph	B25674L5162J725	525	18.4	3 x 64.3	100 x 207	1	1	<b>7,904</b>
20.0	PhaseCap Energy Plus HD 525V50/60Hz 20/24kVAr 3Ph	B25674L5202J025	525	22.0	3 x 77.0	100 x 224	1	1	<b>9,465</b>
20.8	PhaseCap Energy Plus HD 525V50/60Hz 20.8/25kVAr 3Ph	B25674L5202J825	525	22.9	3 x 80.1	100 x 224	1	1	<b>9,847</b>
25.0	PhaseCap Energy Plus HD 525V50/60Hz 25/30kVAr 3Ph	B25674L5252J025	525	27.5	3 x 96.2	116 x 207	1	1	<b>11,831</b>
33.1	PhaseCap Energy Plus HD 525V 50Hz 33.1kVAr 3Ph	B25674L5332J125	525	36.4	3 x 127.4	136 x 192	1	1	<b>15,664</b>
<b>PhaseCap Energy Plus HD (Gas) - 690 V(AC) 3Ph, 50Hz (Series B25674L)</b>									
5.3	PhaseCap Energy Plus HD 690V 50/60Hz 5.3/6.4kVAr 3Ph	B25674L6052J390	690	4.4	3 x 11.8	75 x 185	1	1	<b>4,034</b>
10.4	PhaseCap Energy Plus HD 690V 50/60Hz 10.4/12.5kVAr 3Ph	B25674L6102J490	690	8.7	3 x 23.2	75 x 200	1	1	<b>5,473</b>
12.5	PhaseCap Energy Plus HD 690V 50/60Hz 12.5/15kVAr 3Ph	B25674L6122J590	690	10.5	3 x 27.9	85 x 200	1	1	<b>6,577</b>
14.6	PhaseCap Energy Plus HD 690V 50/60Hz 14.6/17.5kVAr 3Ph	B25674L6142J690	690	12.2	3 x 32.5	100 x 207	1	1	<b>7,688</b>
20.0	PhaseCap Energy Plus HD 690V 50/60Hz 20/24kVAr 3Ph	B25674L6202J090	690	16.7	3 x 44.6	100 x 207	1	1	<b>10,529</b>
25.0	PhaseCap Energy Plus HD 690V50/60Hz 25/30kVAr 3Ph	B25674L6252J090	690	20.9	3 x 55.7	116 x 192	1	1	<b>13,161</b>

# LV PFC Capacitor

## PhaseCap Energy Plus SHD (Resin)



<b>Series</b>	PhaseCap Energy Plus SHD (Resin) B25675L
<b>Technical data</b>	1 to 50 kVAr Single Unit Voltage : 415 V to 690 V (800/1000 V on request)
<b>Features</b>	<ul style="list-style-type: none"> <li>• Manufactured using state-of-art wavecut technology for MPP film with heavy edge</li> <li>• Self healing property</li> <li>• Low energy consumption</li> <li>• Capable of withstanding high inrush current (Upto 500 IR)</li> <li>• Very High life expectancy up to 2,40,000 Similar to product profile operating hours (-40/D)</li> <li>• Capable for 15,000 switching per year to handle dynamic loads</li> <li>• Three phase safety device in the form of pressure sensitive (over pressure) mechanical interrupter</li> <li>• Compact size and light weight</li> <li>• Soft biodegradable resin as impregnant.</li> <li>• Temp class: -40°C to 60 °C</li> </ul>
<b>Specification</b>	Conformance to standards IEC 60831-1 & 2, EN60831-1 & 2, IS:13340
<b>Applications</b>	<ul style="list-style-type: none"> <li>• Automatic PFC equipment, capacitor banks</li> <li>• Individual Fixed PFC (e.g. motors, transformers, lighting)</li> <li>• Group fixed PFC</li> <li>• Tuned and detuned capacitor banks</li> <li>• Dynamic PFC</li> </ul>

Rating kVAr	Description	Material Code	Voltage	IR (A)	CN (mF)	D x H mm	Packing Units	MOQ	MRP List/ Pc in INR	
<b>PhaseCap Energy Plus SHD (Resin) - 415 V(AC) 3Ph, 50Hz (Series B25675L)</b>										
5.0	PhaseCap Energy Plus SHD 415V 50/60Hz 5/6kVAr 3Ph	B25675L4052J015	415	7.0	3 x 30.8	75 x 164	1	1	2,982	
10.0	PhaseCap Energy Plus SHD 415V 50/60Hz 10/12kVAr 3Ph	B25675L4102J015	415	13.9	3 x 61.6	75 x 200	1	1	4,475	
20.0	PhaseCap Energy Plus SHD 415V 50/60Hz 20/24kVAr 3Ph	B25675L4202J015	415	27.8	3 x 123.2	100 x 207	1	1	8,948	
25.0	PhaseCap Energy Plus SHD 415V 50/60Hz 25/30kVAr 3Ph	B25675L4252J015	415	34.8	3 x 154.0	116 x 192	1	1	11,185	
50.0	PhaseCap Energy Plus SHD 415V 50/60Hz 50/60kVAr 3Ph	B25675L4502J015	415	69.6	3 x 308.0	136 x 279	1	1	25,328	
<b>PhaseCap Energy Plus SHD (Resin) - 440 V(AC) 3Ph, 50Hz (Series B25675L)</b>										
1.0	PhaseCap Energy Plus SHD 440V 50/60Hz 1/1.2kVAr 3Ph	B25675L4012B040	440	1.3	3 x 5.5	50 x 75	36	36	907	
2.0	PhaseCap Energy Plus SHD 440V 50/60Hz 2/2.4kVAr 3Ph	B25675L4022B040	440	2.6	3 x 11.0	50 x 112	36	36	1,195	
3.0	PhaseCap Energy Plus SHD 440V 50/60Hz 3/3.6kVAr 3Ph	B25675L4032B040	440	3.9	3 x 16.4	55 x 112	25	25	1,791	
4.0	PhaseCap Energy Plus SHD 440V 50/60Hz 4/4.8kVAr 3Ph	B25675L4042B040	440	5.2	3 x 21.9	55 x 137	25	25	2,396	
5.0	PhaseCap Energy Plus SHD 440V 50/60Hz 5/6kVAr 3Ph	B25675L4061B040	440	6.6	3 x 27.4	55 x 147	25	25	2,810	
7.5	PhaseCap Energy Plus SHD 440V 50/60Hz 7.5/9kVAr 3Ph	B25675L4072J540	440	9.8	3 x 41.1	75 x 200	1	1	4,215	
10.0	PhaseCap Energy Plus SHD 440V 50/60Hz 10/12kVAr 3Ph	B25675L4102J040	440	13.1	3 x 54.8	75 x 200	1	1	4,475	
12.5	PhaseCap Energy Plus SHD 440V 50/60Hz 12.5/15kVAr 3Ph	B25675L4122J540	440	16.4	3 x 68.5	85 x 200	1	1	5,592	
15.0	PhaseCap Energy Plus SHD 440V 50/60Hz 15/18kVAr 3Ph	B25675L4152J040	440	19.7	3 x 82.2	85 x 218	1	1	6,712	
20.0	PhaseCap Energy Plus SHD 440V 50/60Hz 20/24kVAr 3Ph	B25675L4202J040	440	26.2	3 x 109.6	100 x 207	1	1	8,948	
25.0	PhaseCap Energy Plus SHD 440V 50/60Hz 25/30kVAr 3Ph	B25675L4252J040	440	32.8	3 x 137.0	116 x 192	1	1	11,185	
28.1	PhaseCap Energy Plus SHD 440V 50Hz 28.1kVAr 3Ph	B25675L4282J140	440	36.9	3 x 154.0	116 x 207	1	1	12,571	
30.0	PhaseCap Energy Plus SHD 440V 50Hz 30kVAr 3Ph	B25675L4302J040	440	39.4	3 x 164.4	125 x 192	1	1	13,421	
33.1	PhaseCap Energy Plus SHD 440V 50Hz 33.1kVAr 3Ph	B25675L4332J140	440	43.4	3 x 181.4	116 x 224	1	1	14,809	
40.0	PhaseCap Energy Plus SHD 440V 50/60Hz 40/48kVAr 3Ph	B25675L4402J040	440	52.5	3 x 219.2	136 x 217	1	1	17,980	
50.0	PhaseCap Energy Plus SHD 440V 50/60Hz 50/60kVAr 3Ph	B25675L4502J040	440	65.6	3 x 274.0	136 x 279	1	1	21,909	

# LV PFC Capacitor

Rating kVAr	Description	Material Code	Voltage	IR (A)	CN (rF)	D x H mm	Packing Units	MOQ	MRP List/ Pc in INR
<b>PhaseCap Energy Plus SHD (Resin) - 480 V(AC) 3Ph, 50Hz (Series B25675L)</b>									
5.0	PhaseCap Energy Plus SHD 480V 50/60Hz 5/6kVAr 3Ph	B25675L4052J080	480	6.0	3 x 23.0	75 x 164	1	1	2,982
5.5	PhaseCap Energy Plus SHD480V 50/60Hz 5.5/6.6kVAr 3Ph	B25675L4052J580	480	6.6	3 x 25.3	75 x 164	1	1	3,282
6.3	PhaseCap Energy Plus SHD 480V 50/60Hz 6.3/7.6kVAr 3Ph	B25675L4062J380	480	7.6	3 x 29.0	75 x 164	1	1	3,541
8.3	PhaseCap Energy Plus SHD 480V 50/60Hz 8.3/10kVAr 3Ph	B25675L4082J380	480	10.0	3 x 38.2	75 x 200	1	1	4,666
10.4	PhaseCap Energy Plus SHD 480V 50/60Hz 10.4/12.5kVAr 3Ph	B25675L4102J480	480	12.5	3 x 47.9	75 x 200	1	1	4,654
11.0	PhaseCap Energy Plus SHD 480V50/60Hz 11/13.2kVAr 3Ph	B25675L4112J080	480	13.2	3 x 50.7	85 x 200	1	1	4,920
12.5	PhaseCap Energy Plus SHD 480V50/60Hz 12.5/15kVAr 3Ph	B25675L4122J580	480	15.0	3 x 57.6	85 x 200	1	1	5,592
13.8	PhaseCap Energy Plus SHD 480V50/60Hz 13.8/16.6kVAr 3Ph	B25675L4132J880	480	16.6	3 x 63.5	85 x 200	1	1	6,174
15.0	PhaseCap Energy Plus SHD 480V 50/60Hz 15/18kVAr 3Ph	B25675L4152J080	480	18.0	3 x 69.1	100 x 207	1	1	6,712
16.7	PhaseCap Energy Plus SHD 480V 50/60Hz 16.7/20kVAr 3Ph	B25675L4162J780	480	20.1	3 x 76.9	100 x 207	1	1	7,474
18.7	PhaseCap Energy Plus SHD 480V50/60Hz 18.7/22.4kVAr 3Ph	B25675L4182J780	480	22.5	3 x 86.1	100 x 207	1	1	8,366
20.0	PhaseCap Energy Plus SHD 480V 50/60Hz 20/24kVAr 3Ph	B25675L4202J080	480	24.1	3 x 92.1	100 x 207	1	1	8,948
20.8	PhaseCap Energy Plus SHD 480V 50/60Hz 20.8/25kVAr 3Ph	B25675L4202J880	480	25.0	3 x 95.8	116 x 207	1	1	9,305
22.0	PhaseCap Energy Plus SHD 480V 50/60Hz 22/26.4kVAr 3Ph	B25675L4222J080	480	26.5	3 x 101.3	116 x 207	1	1	9,843
25.0	PhaseCap Energy Plus SHD 480V 50/60Hz 25/30kVAr 3Ph	B25675L4252J080	480	30.1	3 x 115.1	116 x 192	1	1	11,185
28.1	PhaseCap Energy Plus SHD 480V 50Hz 28.1kVAr 3Ph	B25675L4282J180	480	33.8	3 x 129.4	116 x 207	1	1	12,571
31.0	PhaseCap Energy Plus SHD 480V 50Hz 31kVAr 3Ph	B25675L4312J080	480	37.3	3 x 142.7	116 x 224	1	1	13,868
33.0	PhaseCap Energy Plus SHD 480V 50Hz 33kVAr 3Ph	B25675L4332J080	480	39.7	3 x 152.0	116 x 224	1	1	14,765
<b>PhaseCap Energy Plus SHD (Resin) - 525 V(AC) 3Ph, 50Hz (Series B25675L)</b>									
5.0	PhaseCap Energy Plus SHD 525V 50/60Hz 5/6kVAr 3Ph	B25675L5052J025	525	5.5	3 x 19.2	75 x 164	1	1	2,982
6.3	PhaseCap Energy Plus SHD 525V 50/60Hz 6.3/7.6kVAr 3Ph	B25675L5062J325	525	6.9	3 x 24.2	75 x 164	1	1	3,541
8.3	PhaseCap Energy Plus SHD 525V 50/60Hz 8.3/10kVAr 3Ph	B25675L5082J325	525	9.1	3 x 31.9	75 x 200	1	1	4,666
10.4	PhaseCap Energy Plus SHD525V50/60Hz 10.4/12.5kVAr 3Ph	B25675L5102J425	525	11.4	3 x 40.0	85 x 185	1	1	4,654
12.5	PhaseCap Energy Plus SHD 525V 50/60Hz 12.5/15kVAr 3Ph	B25675L5122J525	525	13.7	3 x 48.1	85 x 200	1	1	5,592
13.2	PhaseCap Energy Plus SHD 525V 50/60Hz 13.2/15.8kVAr 3Ph	B25675L5132J225	525	14.6	3 x 50.8	85 x 200	1	1	5,905
15.0	PhaseCap Energy Plus SHD 525V 50/60Hz 15/18kVAr 3Ph	B25675L5152J025	525	16.5	3 x 57.7	85 x 218	1	1	6,712
16.7	PhaseCap Energy Plus SHD 525V 50/60Hz 16.7/20kVAr 3Ph	B25675L5162J725	525	18.4	3 x 64.3	100 x 207	1	1	7,474
20.0	PhaseCap Energy Plus SHD 525V 50/60Hz 20/24kVAr 3Ph	B25675L5202J025	525	22.0	3 x 77.0	100 x 224	1	1	8,948
25.0	PhaseCap Energy Plus SHD 525V 50/60Hz 25/30kVAr 3Ph	B25675L5252J025	525	27.5	3 x 96.2	116 x 207	1	1	11,185
26.5	PhaseCap Energy Plus SHD525V 50/60Hz 26.5/31.8kVAr 3Ph	B25675L5262J525	525	29.1	3 x 102.0	116 x 207	1	1	11,855
30.0	PhaseCap Energy Plus SHD 525V 50Hz 30kVAr 3Ph	B25675L5302J025	525	33.0	3 x 115.5	125 x 207	1	1	13,421
33.1	PhaseCap Energy Plus SHD 525V 50Hz 33.1kVAr 3Ph	B25675L5332J125	525	36.4	3 x 127.4	136 x 192	1	1	14,809
37.1	PhaseCap Energy Plus SHD 525V 50Hz 37.1kVAr 3Ph	B25675L5372J125	525	40.8	3 x 142.8	136 x 224	1	1	16,596
<b>PhaseCap Energy Plus SHD (Resin) - 690 V(AC) 3Ph, 50Hz (Series B25675L)</b>									
5.3	PhaseCap Energy Plus SHD 690V 50/60Hz 5.3/6.4kVAr 3Ph	B25675L6052J390	690	4.4	3 x 11.8	75 x 185	1	1	3,492
6.9	PhaseCap Energy PlusSHD 690V 50/60Hz 6.9/8.3kVAr 3Ph	B25675L6062J990	690	5.8	3 x 15.4	75 x 200	1	1	4,286
10.4	PhaseCap Energy Plus SHD 690V50/60Hz 10.4/12.5kVAr 3Ph	B25675L6102J490	690	8.7	3 x 23.2	75 x 200	1	1	5,267
12.5	PhaseCap Energy Plus SHD 690V 50/60Hz 12.5/15kVAr 3Ph	B25675L6122J590	690	10.5	3 x 27.9	85 x 200	1	1	6,334
14.6	PhaseCap Energy Plus SHD 690V50/60Hz 14.6/17.5kVAr 3Ph	B25675L6142J690	690	12.2	3 x 32.5	100 x 207	1	1	7,398
20.0	PhaseCap Energy Plus SHD 690V 50/60Hz 20/24kVAr 3Ph	B25675L6202J090	690	16.7	3 x 44.6	100 x 207	1	1	10,133
25.0	PhaseCap Energy Plus SHD 690V 50/60Hz 25/30kVAr 3Ph	B25675L6252J090	690	20.9	3 x 55.7	116 x 192	1	1	12,665
28.0	PhaseCap Energy Plus SHD 690V 50/60Hz 28kVAr 3Ph	B25675L6282J090	690	23.4	3 x 62.4	116 x 207	1	1	14,186

# LV PFC Capacitor

Rating kVAr	Description	Material Code	Voltage	IR (A)	CN (nF)	D x H mm	Packing Units	MOQ	MRP List/ Pc in INR
<b>PhaseCap Energy Plus SHD (Resin) - 800 V(AC) 3Ph, 50Hz (Series B25675L)</b>									
12.5	PhaseCap Energy Plus SHD 800V 50Hz 12.5kVAr 3Ph	B25675L8122J500	800	9.0	3 x 20.7	100 x 224	1	1	<b>6,703</b>
20.0	PhaseCap Energy Plus SHD 800V 50Hz 20kVAr 3Ph	B25675L8202J000	800	14.4	3 x 33.2	116 x 224	1	1	<b>10,723</b>
25.0	PhaseCap Energy Plus SHD 800V 50Hz 25kVAr 3Ph	B25675L8252J000	800	18.0	3 x 41.4	116 x 224	1	1	<b>13,402</b>

# SquareCap Capacitors



## Resin filled SquareCap Capacitors

- Power: 1 to 50 Kvar
- Rated Voltage: 440V to 525V
- Life expectancy: Up to 1,50,000 hrs.
- Rectangular MS Container with Stud terminals and ceramic bushing


## Features

- Heavy Duty Long Life/Self healing property
- Low energy consumption
- Easy & quick reparability at site
- Over pressure disconnecter
- PU resin as impregnant

**Simplified modular construction for various industrial applications**

# LV PFC Capacitor


## SquareCap Capacitors ENDC

	<b>Series</b>	SquareCap ENDC - Normal Duty Capacitor B32457
	<b>Technical data</b>	1 to 50 kVAr Single Unit Voltage: 440 V
	<b>Features</b>	<ul style="list-style-type: none"> <li>• Manufactured using state-of-art metallization process for MPP film with heavy edge</li> <li>• Self healing property</li> <li>• Low energy consumption</li> <li>• Easy &amp; quick reparability at site.</li> <li>• Three phase safety device in the form of pressure sensitive (over pressure) mechanical interrupter.</li> <li>• Compact size and light weight</li> <li>• Soft biodegradable resin as impregnant.</li> <li>• Temp class: -10/D</li> </ul>
	<b>Specification</b>	Conformance to standards IEC 60831-1 & 2, EN60831-1 & 2, IS:13340
	<b>Applications</b>	<ul style="list-style-type: none"> <li>• Stand alone capacitors (Fixed compensation)</li> <li>• Capacitor banks</li> <li>• Detuned capacitor banks</li> <li>• Dynamic PFC</li> </ul>

Rating kVAr	Description	Material Code	Voltage	IR (A)	CN (rF)	H x W x D mm	Packing Units	MOQ	MRP List/ Pc in INR
<b>SquareCap ENDC - 440 V(AC) 3PH, 50Hz (Series B32457)</b>									
1	SquareCap ENDC 440V 50Hz 1kVAr 3Ph	B32457P5001A011	440	1.3	3 x 5.5	95 x 125 x 45	1	40	<b>796</b>
2	SquareCap ENDC 440V 50Hz 2kVAr 3Ph	B32457P5002A011	440	2.6	3 x 11	120 x 125 x 45	1	40	<b>981</b>
3	SquareCap ENDC 440V 50Hz 3kVAr 3Ph	B32457P5003A011	440	3.9	3 x 16.4	120 x 145 x 55	1	40	<b>1,319</b>
4	SquareCap ENDC 440V 50Hz 4kVAr 3Ph	B32457P5004A011	440	5.2	3 x 21.9	140 x 145 x 55	1	20	<b>1,758</b>
5	SquareCap ENDC 440V 50Hz 5 kVAr 3Ph	B32457F4052A040	440	6.6	3 x 27.4	240 x 185 x 60	1	20	<b>2,201</b>
6	SquareCap ENDC 440V 50Hz 6 kVAr 3Ph	B32457F4062A040	440	7.9	3 x 32.9	282 x 185 x 60	1	5	<b>2,577</b>
7	SquareCap ENDC 440V 50Hz 7 kVAr 3Ph	B32457F4072A040	440	9.2	3 x 38.4	282 x 185 x 60	1	5	<b>3,005</b>
7.5	SquareCap ENDC 440V 50Hz 7.5 kVAr 3Ph	B32457F4072A540	440	9.8	3 x 41.1	282 x 185 x 60	1	5	<b>3,221</b>
8	SquareCap ENDC 440V 50Hz 8 kVAr 3Ph	B32457F4082A040	440	10.5	3 x 43.9	282 x 185 x 60	1	5	<b>3,436</b>
10	SquareCap ENDC 440V 50Hz 10 kVAr 3Ph	B32457F4102A040	440	13.1	3 x 54.8	282 x 185 x 60	1	5	<b>3,740</b>
12.5	SquareCap ENDC 440V 50Hz 12.5 kVAr 3Ph	B32457F4122A540	440	16.4	3 x 68.5	300 x 240 x 80	1	5	<b>4,675</b>
15	SquareCap ENDC 440V 50Hz 15 kVAr 3Ph	B32457F4152A040	440	19.7	3 x 82.2	300 x 240 x 80	1	5	<b>5,609</b>
20	SquareCap ENDC 440V 50Hz 20 kVAr 3Ph	B32457F4202A040	440	26.2	3 x 109.7	300 x 240 x 80	1	2	<b>7,478</b>
25	SquareCap ENDC 440V 50Hz 25 kVAr 3Ph	B32457F4252A040	440	32.8	3 x 137.1	300 x 240 x 80	1	2	<b>9,347</b>
50	SquareCap ENDC 440V 50Hz 50 kVAr 3Ph	B32457F4502A040	440	65.6	6 x 137.1	300 x 240 x 160	1	2	<b>18,694</b>

# LV PFC Capacitor

## SquareCap Capacitors EHDLL

	<b>Series</b>	SquareCap EHDLL – Heavy Duty Long Life Capacitor B32459
	<b>Technical data</b>	1 to 50 kVAr Single Unit Voltage: 440 V to 525 V
	<b>Features</b>	<p>Manufactured using state-of-art metalisation process for MPP film with heavy edge.</p> <ul style="list-style-type: none"> <li>• Heavy Duty long life capacitors.</li> <li>• Self healing property.</li> <li>• Low energy consumption.</li> <li>• PU resin as impregnant.</li> <li>• Safety device in the form of pressure sensitive (over pressure) mechanical interrupter.</li> <li>• Simplified modular construction using hermetically sealed single phase basic capacitor cells.</li> <li>• Easy and quick reparability at site.</li> <li>• Temp class: -10/D.</li> </ul>
	<b>Specification</b>	Conformance to standards IEC 60831-1 & 2, EN60831-1 & 2, IS:13340
	<b>Applications</b>	<ul style="list-style-type: none"> <li>• Stand alone capacitors (Fixed compensation)</li> <li>• Capacitor banks</li> <li>• Detuned capacitor banks</li> <li>• Dynamic PFC</li> </ul>


Rating kVAr	Description	Material Code	Voltage	IR (A)	CN (rF)	H x W x D mm	Packing Units	MOQ	MRP List/ Pc in INR
<b>SquareCap EHDLL - 440 V(AC) 3Ph, 50Hz (Series B32459)</b>									
1	SquareCap EHDLL 440V 50Hz 1 kVAr 3Ph	B32459F4012A040	440	1.3	3 x 5.5	170 x 125 x 45	1	24	1,218
2	SquareCap EHDLL 440V 50Hz 2 kVAr 3Ph	B32459F4022A040	440	2.6	3 x 11	170 x 125 x 45	1	24	1,562
3	SquareCap EHDLL 440V 50Hz 3 kVAr 3Ph	B32459F4032A040	440	3.9	3 x 16.4	240 x 185 x 60	1	20	2,342
4	SquareCap EHDLL 440V 50Hz 4 kVAr 3Ph	B32459F4042A040	440	5.2	3 x 21.9	240 x 185 x 60	1	20	3,123
5	SquareCap EHDLL 440V 50Hz 5 kVAr 3Ph	B32459F4052A040	440	6.6	3 x 27.4	240 x 185 x 60	1	10	2,768
6	SquareCap EHDLL 440V 50Hz 6 kVAr 3Ph	B32459F4062A040	440	7.9	3 x 32.9	300 x 240 x 80	1	4	3,308
7.5	SquareCap EHDLL 440V 50Hz 7.5 kVAr 3Ph	B32459F4072A540	440	9.8	3 x 41.1	300 x 240 x 80	1	4	4,055
8	SquareCap EHDLL 440V 50Hz 8 kVAr 3Ph	B32459F4082A040	440	10.5	3 x 43.9	300 x 240 x 80	1	4	4,326
10	SquareCap EHDLL 440V 50Hz 10 kVAr 3Ph	B32459F4102A040	440	13.1	3 x 54.8	300 x 240 x 80	1	4	5,405
12.5	SquareCap EHDLL 440V 50Hz 12.5 kVAr 3Ph	B32459F4122A540	440	16.4	3 x 68.5	300 x 240 x 80	1	4	6,758
15	SquareCap EHDLL 440V 50Hz 15 kVAr 3Ph	B32459F4152A040	440	19.7	3 x 82.2	300 x 240 x 80	1	4	8,108
20	SquareCap EHDLL 440V 50Hz 20 kVAr 3Ph	B32459F4202A040	440	26.2	6 x 54.8	300 x 240 x 160	1	4	10,813
25	SquareCap EHDLL 440V 50Hz-25kVAr 3Ph	B32459F4252A040	440	32.8	6 x 68.5	300 x 240 x 160	1	2	13,516
30	SquareCap EHDLL 440V 50Hz 30 kVAr 3Ph	B32459F4302A040	440	39.4	6 x 82.2	300 x 240 x 160	1	2	16,218
40	SquareCap EHDLL 440V 50Hz 40 kVAr 3Ph	B32459F4402A040	440	52.5	12 x 54.8	350 x 240 x 320	1	2	21,626
50	SquareCap EHDLL 440V 50Hz 50 kVAr 3Ph	B32459F4502A040	440	65.6	12 x 68.5	350 x 240 x 320	1	2	27,031
<b>SquareCap EHDLL - 480 V(AC) 3Ph, 50Hz (Series B32459)</b>									
5	SquareCap EHDLL 480V 50Hz 5 kVAr 3Ph	B32459F4052A080	480	6	3 x 23	240 x 185 x 60	1	6	2,768
12.5	SquareCap EHDLL 480V 50Hz 12.5 kVAr 3Ph	B32459F4122A580	480	15	3 x 57.6	300 x 240 x 80	1	4	6,758
13.8	SquareCap EHDLL 480V 50Hz 13.8 kVAr 3Ph	B32459F4132A880	480	16.6	3 x 63.6	300 x 240 x 80	1	4	7,453
15	SquareCap EHDLL 480V 50Hz 15 kVAr 3Ph	B32459F4152A080	480	18	3 x 69.1	300 x 240 x 80	1	4	8,108
16.6	SquareCap EHDLL 480V 50Hz 16.6 kVAr 3Ph	B32459F4162A680	480	20	6 x 38.2	300 x 240 x 80	1	4	8,973
20	SquareCap EHDLL 480V 50Hz 20 kVAr 3Ph	B32459F4202A080	480	24.1	6 x 46.1	300 x 240 x 160	1	4	10,813
22.1	SquareCap EHDLL 480V 50Hz 22.1 kVAr 3Ph	B32459F4222A180	480	26.6	6 x 51.1	300 x 240 x 160	1	4	11,949
25	SquareCap EHDLL 480V 50Hz 25 kVAr 3Ph	B32459F4252A080	480	30.1	6 x 57.6	300 x 240 x 160	1	4	13,516

# LV PFC Capacitor

Rating kVAr	Description	Material Code	Voltage	IR (A)	CN (rF)	H x W x D mm	Packing Units	MOQ	MRP List/ Pc in INR
<b>SquareCap EHDLL - 480 V(AC) 3 PH, 50 Hz (Series B32459)</b>									
27.7	SquareCap EHDLL 480V 50Hz 27.7 kVAr 3Ph	B32459F4272A780	480	33.3	6 x 63.6	300 x 240 x 160	1	4	14,975
29	SquareCap EHDLL 480V 50Hz 29 kVAr 3Ph	B32459F4292A080	480	34.9	6 x 66.8	300 x 240 x 160	1	2	15,677
50	SquareCap EHDLL 480V 50Hz 50 kVAr 3Ph	B32459F4502A080	480	60.1	12 x 57.6	350 x 240 x 320	1	2	27,031
<b>SquareCap EHDLL - 525 V(AC) 3Ph, 50Hz (Series B32459)</b>									
6.6	SquareCap EHDLL 525V 50Hz 6.6 kVAr 3Ph	B32459F5062A625	525	7.3	3 x 25.4	300 x 240 x 80	1	4	3,570
10	SquareCap EHDLL 525V 50Hz 10 kVAr 3Ph	B32459F5102A025	525	11.0	3 x 38.5	300 x 240 x 80	1	4	5,405
12.5	SquareCap EHDLL 525V 50Hz 12.5 kVAr 3Ph	B32459F5122A525	525	13.7	3 x 48.1	300 x 240 x 80	1	4	6,758
13.2	SquareCap EHDLL 525V 50Hz 13.2 kVAr 3Ph	B32459F5132A225	525	14.5	3 x 51.1	300 x 240 x 80	1	4	7,136
15	SquareCap EHDLL 525V 50Hz 15 kVAr 3Ph	B32459F5152A025	525	16.5	3 x 57.8	300 x 240 x 80	1	4	8,108
16.6	SquareCap EHDLL 525V 50Hz 16.6 kVAr 3Ph	B32459F5162A625	525	18.3	3 x 63.9	300 x 240 x 80	1	4	8,973
20	SquareCap EHDLL 525V 50Hz 20 kVAr 3Ph	B32459F5202A025	525	22.0	6 x 38.5	300 x 240 x 160	1	2	10,813
25	SquareCap EHDLL 525V 50Hz 25 kVAr 3Ph	B32459F5252A025	525	27.5	6 x 48.1	300 x 240 x 160	1	2	13,516
26.5	SquareCap EHDLL 525V 50Hz 26.5 kVAr 3Ph	B32459F5262A525	525	29.1	6 x 51.1	300 x 240 x 160	1	2	14,326
30	SquareCap EHDLL 525V 50Hz 30 kVAr 3Ph	B32459F5302A025	525	33.0	6 x 57.8	300 x 240 x 160	1	2	16,218
33.1	SquareCap EHDLL 525V 50Hz 33.1 kVAr 3Ph	B32459F5332A125	525	36.4	6 x 63.9	300 x 240 x 160	1	2	17,894
50	SquareCap EHDLL 525V 50Hz 50 kVAr 3Ph	B32459F5502A025	525	55.0	12 x 48.1	350 x 240 x 320	1	2	27,031

# LV PFC Capacitor

## SquareCap Capacitors - ESHDC


	<b>Series</b>	SquareCap ESHDC - Super Heavy Duty Capacitor B32455
	<b>Technical data</b>	1 to 50 kVAr Single Unit Voltage: 440 V to 525 V
	<b>Features</b>	<ul style="list-style-type: none"> <li>• Super Heavy Duty capacitor for non-linear arduous and fluctuating loads.</li> <li>• Manufactured using state-of-art metalisation process for MPP film with heavy edge.</li> <li>• Self healing property.</li> <li>• Low energy consumption.</li> <li>• PU resin as impregnant.</li> <li>• Safety device in the form of pressure sensitive (over pressure) mechanical interrupter.</li> <li>• Simplified modular construction using hermetically sealed single phase basic capacitor cells.</li> <li>• Easy and quick reparability</li> <li>• Temp class: -10/D.</li> </ul>
	<b>Specification</b>	Conformance to standards IEC 60831-1 & 2, EN60831-1 & 2, IS:13340
	<b>Applications</b>	<ul style="list-style-type: none"> <li>• Stand alone capacitors (Fixed compensation)</li> <li>• Capacitor banks</li> <li>• Detuned capacitor banks</li> <li>• Dynamic PFC</li> </ul>

Rating kVAr	Description	Material Code	Voltage	IR (A)	CN (nF)	H x W x D mm	Packing Units	MOQ	MRP List/ Pc in INR
<b>SquareCap ESHDC - 440 V(AC) 3Ph, 50Hz (Series B32455)</b>									
1	SquareCap ESHDC 440V 50Hz 1 kVAr 3Ph	B32455F4012A040	440	1.3	3 x 5.5	270 x 185 x 60	1	10	1,951
2	SquareCap ESHDC 440V 50Hz 2 kVAr 3Ph	B32455F4022A040	440	2.6	3 x 11	270 x 185 x 60	1	10	2,627
3	SquareCap ESHDC 440V 50Hz 3 kVAr 3Ph	B32455F4032A040	440	3.9	3 x 16.4	300 x 240 x 80	1	10	3,938
4	SquareCap ESHDC 440V 50Hz 4 kVAr 3Ph	B32455F4042A040	440	5.2	3 x 21.9	300 x 240 x 80	1	10	5,250
5	SquareCap ESHDC 440V 50Hz 5 kVAr 3Ph	B32455F4052A040	440	6.6	3 x 27.4	300 x 240 x 80	1	4	5,076
7.5	SquareCap ESHDC 440V 50Hz 7.5 kVAr 3Ph	B32455F4072A540	440	9.2	3 x 38.4	400 x 240 x 80	1	4	6,014
10	SquareCap ESHDC 440V 50Hz 10 kVAr 3Ph	B32455F4102A040	440	13.1	3 x 54.8	400 x 240 x 80	1	4	8,020
12.5	SquareCap ESHDC 440V 50Hz 12.5 kVAr 3Ph	B32455F4122A540	440	16.4	3 x 68.6	400 x 240 x 80	1	4	10,025
15	SquareCap ESHDC 440V 50Hz 15 kVAr 3Ph	B32455F4152A040	440	19.7	6 x 41.1	400 x 240 x 160	1	4	12,031
20	SquareCap ESHDC 440V 50Hz 20 kVAr 3Ph	B32455F4202A040	440	26.2	6 x 54.8	400 x 240 x 160	1	2	16,040
25	SquareCap ESHDC 440V 50Hz 25 kVAr 3Ph	B32455F4252A040	440	32.8	6 x 68.6	400 x 240 x 160	1	2	20,051
50	SquareCap ESHDC 440V 50Hz 50 kVAr 3Ph	B32455F4502A040	440	65.6	12 x 68.6	450 x 240 x 320	1	2	40,104
<b>SquareCap ESHDC - 480 V(AC) 3Ph, 50Hz (Series B32455)</b>									
5	SquareCap ESHDC 480V 50Hz 5 kVAr 3Ph	B32455F4052A080	480	6.6	3 x 25.4	400 x 240 x 80	1	4	4,610
6	SquareCap ESHDC 480V 50Hz 6 kVAr 3Ph	B32455F4062A080	480	7.2	3 x 27.6	400 x 240 x 80	1	4	5,523
7.5	SquareCap ESHDC 480V 50Hz 7.5 kVAr 3Ph	B32455F4072A580	480	9	3 x 34.6	400 x 240 x 80	1	4	6,017
10	SquareCap ESHDC 480V 50Hz 10 kVAr 3Ph	B32455F4102A080	480	12	3 x 46.1	400 x 240 x 80	1	4	8,020
11.1	SquareCap ESHDC 480V 50Hz 11.1 kVAr 3Ph	B32455F4112A180	480	13.4	3 x 51.1	400 x 240 x 80	1	4	8,902
12.5	SquareCap ESHDC 480V 50Hz 12.5 kVAr 3Ph	B32455F4122A580	480	15	3 x 57.6	400 x 240 x 80	1	4	10,025
13.8	SquareCap ESHDC 480V 50Hz 13.8 kVAr 3Ph	B32455F4132A880	480	16.6	3 x 63.8	400 x 240 x 80	1	4	11,069
16.6	SquareCap ESHDC 480V 50Hz 16.6 kVAr 3Ph	B32455F4162A680	480	20	6 x 38.3	400 x 240 x 160	1	2	13,316
22.1	SquareCap ESHDC 480V 50Hz 22.1 kVAr 3Ph	B32455F4222A180	480	26.6	6 x 50.9	400 x 240 x 160	1	2	17,726
25	SquareCap ESHDC 480V 50Hz 25 kVAr 3Ph	B32455F4252A080	480	30.1	6 x 57.6	400 x 240 x 160	1	2	20,051
27.7	SquareCap ESHDC 480V 50Hz 27.7 kVAr 3Ph	B32455F4272A780	480	33.3	6 x 63.8	400 x 240 x 160	1	2	22,218
50	SquareCap ESHDC 480V 50Hz 50 kVAr 3Ph	B32455F4502A080	480	60.1	12 x 57.6	450 x 240 x 320	1	2	40,104

# LV PFC Capacitor

Rating kVAr	Description	Material Code	Voltage	IR (A)	CN (rF)	H x W x D mm	Packing Units	MOQ	MRP List/ Pc in INR
<b>SquareCap ESHDC - 525 V(AC) 3Ph, 50Hz (Series B32455)</b>									
6.6	SquareCap ESHDC 525V 50Hz 6.6 kVAr 3Ph	B32455F5062A625	525	7.3	3 x 25.4	400 x 240 x 80	1	4	<b>6,080</b>
10	SquareCap ESHDC 525V 50Hz 10 kVAr 3Ph	B32455F5102A025	525	11	3 x 38.5	400 x 240 x 80	1	4	<b>8,020</b>
12.5	SquareCap ESHDC 525V 50Hz 12.5 kVAr 3Ph	B32455F5122A525	525	13.7	3 x 48.2	400 x 240 x 80	1	4	<b>10,028</b>
13.2	SquareCap ESHDC 525V 50Hz 13.2 kVAr 3Ph	B32455F5132A225	525	14.5	6 x 50.8	400 x 240 x 160	1	4	<b>10,588</b>
15	SquareCap ESHDC 525V 50Hz 15 kVAr 3Ph	B32455F5152A025	525	16.5	6 x 28.9	400 x 240 x 160	1	2	<b>12,031</b>
16.6	SquareCap ESHDC 525V 50Hz 16.6 kVAr 3Ph	B32455F5162A625	525	18.3	6 x 32	400 x 240 x 160	1	2	<b>13,316</b>
20	SquareCap ESHDC 525V 50Hz 20 kVAr 3Ph	B32455F5202A025	525	22	6 x 38.5	400 x 240 x 160	1	2	<b>16,040</b>
25	SquareCap ESHDC 525V 50Hz 25 kVAr 3Ph	B32455F5252A025	525	27.5	6 x 48.2	400 x 240 x 160	1	2	<b>20,051</b>
26.5	SquareCap ESHDC 525V 50Hz 26.5 kVAr 3Ph	B32455F5262A525	525	29.1	6 x 50.8	400 x 240 x 160	1	2	<b>21,256</b>
33.1	SquareCap ESHDC 525V 50Hz 33.1 kVAr 3Ph	B32455F5332A225	525	36.4	12 x 32	450 x 240 x 320	1	2	<b>26,548</b>
35	SquareCap ESHDC 525V 50Hz 35 kVAr 3Ph	B32455F5352A025	525	38.5	12 x 33.7	450 x 240 x 320	1	2	<b>28,073</b>
50	SquareCap ESHDC 525V 50Hz 50 kVAr 3Ph	B32455F5502A025	525	55	12 x 48.2	450 x 240 x 320	1	2	<b>40,104</b>

# LV PFC Key Components

Capacitor - Duty Contactor		
	<b>Series</b>	Capacitor Duty Contactor C24*
	<b>Technical data</b>	<ul style="list-style-type: none"> <li>• Rating: 7 kVAr to 100 kVAr</li> <li>• Voltage Range (380 V to 690 V)</li> <li>• Operational ambient temperature up to 60 °C</li> </ul>
	<b>Features</b>	<ul style="list-style-type: none"> <li>• Wide range of kVAr and Operating Voltage</li> <li>• Excellent damping of inrush current by the use of leading contacts with wiper function and special resistors</li> <li>• Longer useful life of main contacts of capacitor Contactor</li> <li>• Soft switching of contactor and thus longer useful life</li> <li>• Weld resistant up to a possible peak inrush current of 200 times the rated capacitor current</li> <li>• Enhance mean life expectancy of PFC systems</li> <li>• Reduce Ohmic losses</li> <li>• Tamper proof and protected resistors</li> <li>• Suitable for use with or without detuned reactors</li> <li>• Easy access for cable connection</li> <li>• Type tested at CPRI</li> <li>• AC-6b Utilisation category</li> </ul>
	<b>Specification</b>	Technical data according to Standards IEC 947-4-1, IEC 947-5-1, EN 60947-4-1EN 60947-5-1 and VDE 0660

Type	Rating kVAr	Voltage V V(AC)	Description	Material Code	MRP List/ Pc in INR
<b>Capacitor Duty Contactor</b>					
Capacitor Duty Contactor	7	240	Cap Duty Contactor 7 kVAr 1NO 1NC 240V	B44066S 711C240	<b>2,765</b>
Capacitor Duty Contactor	10	240	Cap Duty Contactor 10 kVAr 1NO 1NC 240V	B44066S1011C240	<b>2,882</b>
Capacitor Duty Contactor	12.5	240	Cap Duty Contactor 12.5 kVAr 1NO 1NC 240V	B44066S1211C240	<b>3,118</b>
Capacitor Duty Contactor	16	240	Cap Duty Contactor 16 kVAr 1NO 1NC 240V	B44066S1611C240	<b>3,998</b>
Capacitor Duty Contactor	20	240	Cap Duty Contactor 20 kVAr 1NO 1NC 240V	B44066S2011C240	<b>4,766</b>
Capacitor Duty Contactor	25	240	Cap Duty Contactor 25 kVAr 1NO 1NC 240V	B44066S2511C240	<b>5,472</b>
Capacitor Duty Contactor	33	240	Cap Duty Contactor 33 kVAr 1NO 2NC 240V	B44066S3312C240	<b>11,056</b>
Capacitor Duty Contactor	40	240	Cap Duty Contactor 40 kVAr 1NO 2NC 240V	B44066S4012C240	<b>12,418</b>
Capacitor Duty Contactor	50	240	Cap Duty Contactor 50 kVAr 1NO 2NC 240V	B44066S5012C242	<b>15,494</b>
Capacitor Duty Contactor	60	240	Cap Duty Contactor 60 kVAr 1NO 2NC 240V	B44066S6012C240	<b>15,826</b>
Capacitor Duty Contactor	75	240	Cap Duty Contactor 75 kVAr 1NO 2NC 240V	B44066S7512C242	<b>19,798</b>
Capacitor Duty Contactor	80	240	Cap Duty Contactor 80 kVAr 1NO 2NC 240V	B44066S8012C241	<b>24,548</b>
Capacitor Duty Contactor	100	240	Cap Duty Contactor 100 kVAr 1NO 2NC 240V	B44066S9912C241	<b>27,423</b>

# Compact TSM


Thyristor Switching Modules



- **Universal Power Connection** (Interchangeable Line-Load Connection)
- **Polarity Insensitive for Triggers & Aux Power Supply (24V DC)**
- **Wide Operating Voltage Band: 300V to 500V**
- **Peak Inverse Voltage (PIV): 2200V**
- **EMI/EMC Compliance**


**Industry's First Ultra-Compact TSM**

# LV PFC Key Components

Compact Thyristor Module	
	<b>Series</b> Compact Thyristor Module B44066T* <span style="color: red; font-weight: bold;">NEW</span>
	<b>Technical data</b> <ul style="list-style-type: none"> <li>• Dimensions: 65x165x150 mm (WxHxD)</li> <li>• Weight: 2kg</li> <li>• Operating voltage: 300 to 500 V</li> <li>• Auxiliary supply voltage: 24vdc ± 2 vdc (150mA max current), polarity insensitive</li> <li>• Frequency: 50/ 60Hz</li> <li>• Max. voltage: In systems without reactor: 480V</li> <li>• 7% detuning: max 480V</li> <li>• 14% detuning: max 480V</li> </ul>
	<b>Features</b> <ul style="list-style-type: none"> <li>• Thyristor module for dynamic compensation system in grids from 300 to 500 V</li> <li>• EMC/EMI Compliance</li> <li>• Self-adaptive to harmonics</li> <li>• Maximum switching time 10 msec</li> <li>• Near zero switching without noise</li> <li>• Enhanced temperature management</li> <li>• RoHS-compatible   CE marking</li> </ul>
	<b>Applications</b> Automobile Body Shop, Weldings, Cranes, Elevators, Wind turbines

Type	Rating kVAr	Voltage V V(AC)	Description	Material Code	MRP List/ Pc in INR
<b>Compact Thyristor Switch and Discharge Resistor (New)</b>					
CTSM 15	15	440	Compact TSM Module 15 kVAr 440V including EW22	B44066T0015I440	<b>27,290</b>
CTSM 25	25	440	Compact TSM Module 25 kVAr 440V including EW22	B44066T0025I440	<b>31,855</b>
CTSM 50	50	440	Compact TSM Module 50 kVAr 440V including EW22	B44066T0050I440	<b>33,007</b>

# LV PFC Key Components

Thyristor Module	
	<b>Series</b> Thyristor Module TSM LC-N
	<b>Technical data</b> <ul style="list-style-type: none"> <li>• Power : 10 kVAr to 100 kVAr</li> <li>• Rated Voltage : 400, 415, 440 and 690 V</li> <li>• Operational temp.: -10..+ 55 °C</li> </ul>
	<b>Features</b> <ul style="list-style-type: none"> <li>• Suitable for real time power factor correction</li> <li>• Easy Installation: Can be used as a Contactor</li> <li>• Reaction time: 5 milli seconds</li> <li>• Self Control of Voltage Parameter, Capacitor Current, Temperature of the thyristor switch</li> <li>• Alarm output per module</li> <li>• Manual operation possible</li> <li>• Auto switch off in over current and over temp.</li> <li>• Displays Operations, Faults &amp; Activation</li> </ul>
	<b>Applications</b> Automobile Body Shop, Weldings, Cranes, Elevators, Wind turbines

Type	Rating kVAr	Voltage V V(AC)	Description	Material Code	MRP List/ Pc in INR
<b>Thyristor Switch and Discharge Resistor</b>					
TSM 10	10	440	Thyristor Module 10 kVAr 440V (TSM LC-N) incl EW22	B44066T0010R440	<b>29,662</b>
TSM 25	25	440	Thyristor Module 25 kVAr 440V (TSM LC-N) incl EW22	B44066T3025R442	<b>36,198</b>
TSM 50	50	440	Thyristor Module 50 kVAr 440V (TSM LC-N) incl EW22	B44066T3050R442	<b>37,508</b>
TSM 100	100	440	Thyristor Module 100 kVAr 440V (TSM LC-N) incl EW22	B44066T0100I440	<b>77,461</b>
TSM 50	50	690	Thyristor Module 50 kVAr 690V (TSM LC-N) excl Resistor	B44066T3050E690	<b>103,990</b>
EW22-Resistor	-	440	Discharge Resistor 22K, 50W, 5%	B44066T0022S400	<b>1,523</b>
Output Buffer Card, 24V		24	Buffer Card	B44066R1116R230	<b>10,528</b>

# BR5600 R/T

## Universal PF Controller



- Single Controller for LV/MV Sensing & Compensation
- 3/2/1 Phase CT Sensing
- 1ph & 3ph Capacitors in Same relay
- Four Quad Operation- Solar/Wind/Co-Gen
- %THDV, %THDI, %TDD upto 31st Harmonics (Odd & Even)
- Wide ranging Power Supply (90V~ to 485V~) with Auto roll back option
- Activation at 5mA (0.1% Load on 5Amp CT)

**Most Versatile Relay to meet Wide Range of Applications**




TEG-ENA-IN-Sales@tdk.com




www.tdk.com

# LV PFC Key Components

Power Factor Controller		
	<b>Series</b>	Power Factor Controller BR 4000
	<b>Technical data</b>	<ul style="list-style-type: none"> <li>• Steps - 4, 6 and 8 relay outputs</li> <li>• Current Input - 1A or 5 A</li> <li>• Supply Voltage - 110 V AC-550 V AC</li> <li>• Measurement Voltage : 30...550 V AC (L-L/L-N)</li> <li>• Operating temperature : 0 to 60 ° C</li> <li>• Compact 96 x 96 x 75 mm</li> <li>• Adapter plate for 144 x 144 cut out can be provided for BR4000-ER and BR4000-S</li> </ul>
	<b>Important display parameters</b>	<ul style="list-style-type: none"> <li>• Voltage</li> <li>• Current</li> <li>• Temperature</li> <li>• Energy KWh, KVAh, KVARh</li> <li>• Real time PF</li> <li>• Power KW, KVA, kVAr</li> <li>• Harmonics % ITHD, %VTHD, individual up to 31st</li> </ul>
	<b>Features</b>	<ul style="list-style-type: none"> <li>• Intelligent control</li> <li>• Large measurement and input voltage range</li> <li>• User friendly operation</li> <li>• Individual harmonics up to 31st order</li> <li>• Four quadrant operations RS 485 communication/real time clock (optional)</li> <li>• 4 steps variant upgradable to 6 and 8 with additional module.</li> <li>• Configurable alarm output for various parameters</li> <li>• Recall recorded values for 10 various important parameters.</li> </ul>


Type	Steps	Voltage V	Description	Material Code	MRP List/ Pc in INR
<b>Power Factor Controller</b>					
Contr - BR4200 	8	440	PFC BR4200R-8 Steps, 1CT, 1Ph, 240V Relay O/P	B44066R4208A240	<b>21,404</b>
Contr - BR4000-ER	4	240	BR4000-ER Series 4 Step Relay O/P 240V	B44066R4004R240	<b>9,977</b>
Contr - BR4000-ER	6	240	BR4000-ER Series 6 Step Relay O/P 240V	B44066R4006R240	<b>11,453</b>
Contr - BR4000-ER	8	240	BR4000-ER Series 8 Step Relay O/P 240V	B44066R4008R240	<b>13,460</b>
Contr - BR4000-S	4	240	BR4000-S Series 4 Step Relay O/P 240V with 144x144 Adaptor plate	B44066R4104R240	<b>7,868</b>
Contr - BR4000-S	6	240	BR4000-S Series 6 Step Relay O/P 240V with 144x144 Adaptor plate	B44066R4106R240	<b>8,946</b>
Contr - BR4000-S	8	240	BR4000-S Series 8 Step Relay O/P 240V with 144x144 Adaptor plate	B44066R4108R240	<b>9,749</b>

# LV PFC Key Components

Power Factor Controller	
	<b>Series</b> Power Factor Controller BR 2100
	<b>Technical data</b> <ul style="list-style-type: none"> <li>• Steps - 6,8 and 12 relay outputs</li> <li>• Current Input - 1A or 5 A</li> <li>• Supply Voltage - 110 VAC-550 VAC</li> <li>• Operating temperature : -10 to 60 °C</li> <li>• Compact 144 x 144 mm front fascia</li> </ul>
	<b>Important display parameters</b> <ul style="list-style-type: none"> <li>• Voltage</li> <li>• Real time PF</li> <li>• Current</li> <li>• Power KW, KVA, KVAR</li> <li>• Temperature</li> <li>• Harmonics % ITHD, %VTHD, individual up to 31st</li> <li>• Energy KWh, KVAh, KVARh</li> </ul>
	<b>Features</b> <ul style="list-style-type: none"> <li>• Intelligent control</li> <li>• Menu driven handling in English language</li> <li>• Test-run possible</li> <li>• Large voltage measuring range</li> <li>• Recall function of recorded values</li> <li>• Four-quadrant operation</li> <li>• Potential free contact alarm output (Optional)</li> <li>• RS485 communication interface (Optional)</li> <li>• Real Time Clock (Optional)</li> <li>• Log of Time date stamping for last 3 system faults enabled</li> <li>• Auto Initialization function</li> <li>• Input voltage connection detection \ (L-N\L-L)</li> <li>• Three bank selection mode</li> <li>• Control series (upto 20)</li> </ul>


Type	Steps	Voltage V	Description	Material Code	MRP List/ Pc in INR
<b>Power Factor Controller</b>					
Contr - BR2100	6	240	BR2100 Series 6 Step Relay 230V	B44066R2006R240	<b>14,990</b>
Contr - BR2100	8	240	BR2100 Series 8 Step Relay 230V	B44066R2008R240	<b>17,033</b>
Contr - BR2100	12	240	BR2100 Series 12 Step Relay 230V	B44066R2012R240	<b>18,394</b>

# LV PFC Key Components

Power Factor Controller	
	<b>Series</b> Power Factor Controller BR 6000
	<b>Technical data</b> <ul style="list-style-type: none"> <li>• Steps - 6 and 12 outputs (in both relay and transistorised versions)</li> <li>• Current Input - 1A or 5 A • Supply Voltage - 1Ph - 230 V AC</li> <li>• Measurement Voltage :1Ph 30V - 525V AC (L-N) or (L-L)</li> <li>• Operating temperature: -20 to +60 °C • Compact 144 x 144 mm front fascia</li> </ul>
	<b>Important display parameters</b> <ul style="list-style-type: none"> <li>• Voltage • Real time PF</li> <li>• Current • Power KW, KVA, KVAR</li> <li>• Temperature • Harmonics % ITHD, %VTHD, individual up to 31st</li> <li>• Energy KWh, KVAh, KVARh</li> </ul>
	<b>Features</b> <ul style="list-style-type: none"> <li>• Microcontroller logic for measurements</li> <li>• Self explanatory menu navigation in several languages</li> <li>• Self optimizing control capability</li> <li>• Control modes : LIFO, FIFO and Self optimized Intelligent Control.</li> <li>• Large and multifunctional LCD with backlit display (2 X 16 characters)</li> <li>• Single CT sensing for balanced loads</li> <li>• Dual target Power Factor setting (available in 12 stage) - useful for utility and DG mode operation available optional</li> <li>• Automatic synchronization possible</li> <li>• Display and storage of maximum values, number of switching operations and operating time</li> <li>• Recall function of recorded values</li> <li>• RS 232 Interface optional • Alarm output optional</li> <li>• Dynamic Power Factor Controller (Transistorised) available in 6 and 12 steps</li> <li>• Cascading possible with master slave versions</li> <li>• Protective earth terminal to reduce noise and unwanted interference signals</li> <li>• EMI/ EMC type tested</li> <li>• Individual Harmonic measurement upto 19th order.</li> </ul>

Type	Steps	Voltage V	Description	Material Code	MRP List/ Pc in INR
<b>Power Factor Controller</b>					
Contr - BR6000	6	230	BR6000 Series 6 Step Relay 230V	B44066R6006R230	<b>16,610</b>
Contr - BR6000	12	230	BR6000 Series 12 Step Relay 230V	B44066R6012R230	<b>20,385</b>
Contr - BR6000	12	230	BR6000 Series T12 Step Transistor O/P Relay 230V	B44066R6112R230	<b>27,558</b>
Contr - BR6000	6	230	BR6000 Series T6 Step Transistor O/P Relay 230V	B44066R6106R230	<b>22,397</b>
Contr - BR6000	12	230	BR6000 Series (RS485 interface) 12 Step Relay	B44066R6412R230	<b>26,802</b>

# LV PFC Key Components

Power Factor Controller	
	<b>Series</b> Power factor controller BR5600 R/T (LV/HV) <b>NEW</b>
	<b>Technical data</b> <ul style="list-style-type: none"> <li>• 16 steps controller (in both relay and transistorized versions)</li> <li>• Current input :1A or 5A (1CT/2CT/3CT sensing)</li> <li>• Supply voltage 90V to 485V L-L / 100V to 550Vdc</li> <li>• Measurement voltage 50...315V ~(L-N) / 85... 550V ~(L-L)</li> <li>• Operating temperature 0°C to 60°C</li> <li>• Size 144mm x144mm front fascia</li> </ul>
	<b>Important display parameters</b> <ul style="list-style-type: none"> <li>• Voltage</li> <li>• Real time PF</li> <li>• Current</li> <li>• Power KW, kVA, kVAh</li> <li>• Temperature</li> <li>• Harmonics % ITHD, %VTHD, individual up to 31st</li> <li>• Energy KWh, KVAh, KVARh</li> </ul>
	<b>Features</b> <ul style="list-style-type: none"> <li>• Intelligent control</li> <li>• Self-optimizing control capability</li> <li>• Wide range of auxiliary power supply with AC or DC input</li> <li>• Large measuring voltage range</li> <li>• Data logging</li> <li>• Four-quadrant operation (e.g. stand by generator)</li> <li>• High precision of measurement</li> <li>• Phase sequence of measurement voltage</li> <li>• Easy edit mode (to program minimum parameters)</li> <li>• Expert edit mode facility to access special functions</li> <li>• Minimum current sensing 5mA</li> <li>• Storage of maximum values</li> <li>• Storage of switching operations and time</li> <li>• Monitoring of capacitor kVAh</li> <li>• 1 auxiliary input &amp; 3 auxiliary output</li> <li>• Measurement methods like 3 wattmeter/ 2 wattmeter/ balanced quadrature/ balanced in phase</li> <li>• RS232, RS485 and GPRS communication with modem connectivity</li> <li>• External temperature monitoring facility via PT100 sensor(RTD)</li> <li>• RoHS-compatible</li> <li>• CE marking</li> </ul>

Type	Steps	Voltage V	Description	Material Code	MRP List/ Pc in INR
<b>Power Factor Controller</b>					
Contr - BR5600	16	415	PFC BR5600T-16 Steps,3CT,3Ph,415V TX O/P-New	B44066R5715A415	<b>38,322</b>
Contr - BR5600	16	415	PFC BR5600R-16 Steps,3CT,3Ph,415VRelay O/P-New	B44066R5615A415	<b>36,632</b>

# High VTHD Detuned Reactors




- **Voltage Harmonics Withstand: 12% / 16% / 20% VTHD**
- **Al Foil Design**
  - **To avoid Skin Effect**
  - **Higher Short Circuit Withstand Capacity**
- **Linearity: Up to 250% of Rated Current**

**Designed to work for most demanding Applications**

# LV PFC Key Components

## Three Phase Detuned Filter Reactor

	<b>Series</b>	Three Phase Detuned Filter Reactor
	<b>Technical data</b>	<ul style="list-style-type: none"> <li>• Effective Filter out put 5 kVAr to 100 kVAr</li> <li>• Filtering factor: (5.67%, 7% and 14% corresponding to tuning frequencies of 210 Hz, 189 Hz and 134 Hz, for fundamental frequency of 50 Hz)</li> <li>• Rated Voltage: (230 V to 690 V)</li> <li>• Available in three designs               <ol style="list-style-type: none"> <li>1. Aluminum Foil Wound</li> <li>2. Aluminum Strip Wound</li> <li>3. Copper Conductor Wound</li> </ol> </li> </ul>
	<b>Features</b>	<ul style="list-style-type: none"> <li>• High Linearity up to 208%</li> <li>• Low loss design, light weight and low noise level &lt; 65DB</li> <li>• High over loading capability</li> <li>• Safety device - bimetallic microswitch in central winding</li> <li>• Type tested at CPRI.</li> </ul>

Type	Rating kVAr	Voltage V V(AC)	Description	Material Code	MRP List/ Pc in INR
<b>Three Phase Detuned Reactor (Aluminium Wound)</b>					
HFR - AL - 7% DETUNED	5	440	Reactor 5kVAr,7%,440V, 50Hz, AL Strip	B44066D7005K440	10,220
HFR - AL - 7% DETUNED	10	440	Reactor 10kVAr,7%,440V, 50Hz, AL Strip	B44066D7010K440	12,431
HFR - AL - 7% DETUNED	12.5	440	Reactor 12.5kVAr,7%,440V, 50Hz, AL Strip	B44066D7012K440	12,708
HFR - AL - 7% DETUNED	15	440	Reactor 15kVAr,7%,440V, 50Hz, AL Strip	B44066D7015K440	18,094
HFR - AL - 7% DETUNED	20	440	Reactor 20kVAr,7%,440V, 50Hz, AL Strip	B44066D7020K440	19,890
HFR - AL - 7% DETUNED	25	440	Reactor 25kVAr,7%,440V, 50Hz, AL Strip	B44066D7025K440	20,578
HFR - AL - 7% DETUNED	50	440	Reactor 50kVAr,7%,440V, 50Hz, AL Strip	B44066D7050K440	31,214
HFR - AL - 7% DETUNED	100	440	Reactor 50kVAr,7%,440V, 50Hz, AL Strip	B44066D7100K440	59,507
HFR - AL - 7% DETUNED	75	440	Reactor 75kVAr,7%,440V, 50Hz, AL Foil	B44066D7075E440	54,416
HFR - AL - 7% DETUNED	100	440	Reactor 100kVAr,7%,440V, 50Hz, AL Foil	B44066D7100E440	62,150
HFR - AL - 7% DETUNED	5	415	Reactor 5kVAr,7%,415V, 50Hz , AL Strip	B44066D7005K415	11,048
HFR - AL - 7% DETUNED	10	415	Reactor 10kVAr,7%,415V, 50Hz , AL Strip	B44066D7010K415	13,397
HFR - AL - 7% DETUNED	15	415	Reactor 15kVAr,7%,415V, 50Hz , AL Strip	B44066D7015K415	19,060
HFR - AL - 7% DETUNED	20	415	Reactor 20kVAr,7%,415V, 50Hz , AL Strip	B44066D7020K415	20,441
HFR - AL - 7% DETUNED	25	415	Reactor 25kVAr,7%,415V, 50Hz , AL Strip	B44066D7025K415	21,544
HFR - AL - 7% DETUNED	35	415	Reactor 35kVAr,7%,415V, 50Hz , AL Strip	B44066D7035K415	22,372
HFR - AL - 7% DETUNED	50	415	Reactor 50kVAr,7%,415V, 50Hz , AL Strip	B44066D7050K415	32,396
HFR - AL - 7% DETUNED	75	415	Reactor 75kVAr,7%,415V, 50Hz , AL Foil	B44066D7075E415	54,968
HFR - AL - 7% DETUNED	100	415	Reactor 100 kVAr,7%,415V, 50Hz , AL Foil	B44066D7100E415	61,321
HFR - AL - 7% DETUNED	5	440	Reactor 5kVAr,7%,440V, 50Hz, AL Foil	B44066D7005E440	11,740
HFR - AL - 7% DETUNED	10	440	Reactor 10kVAr,7%,440V, 50Hz, AL Foil	B44066D7010E440	16,229
HFR - AL - 7% DETUNED	15	440	Reactor 15kVAr,7%,440V, 50Hz, AL Foil	B44066D7015E440	25,690
HFR - AL - 7% DETUNED	25	440	Reactor 25kVAr,7%,440V, 50Hz, AL Foil	B44066D7025E440	26,518
HFR - AL - 7% DETUNED	50	440	Reactor 50kVAr,7%,440V, 50Hz, AL Foil	B44066D7050E440	33,561
HFR - AL - 7% DETUNED	5	690	Reactor 5kVAr,7%,690V, 50Hz , AL Strip	B44066D7005K690	14,663
HFR - AL - 7% DETUNED	10	690	Reactor 10kVAr,7%,690V, 50Hz , AL Strip	B44066D7010K690	19,962
HFR - AL - 7% DETUNED	25	690	Reactor 25kVAr,7%,690V, 50Hz , AL Strip	B44066D7025K690	32,081

# LV PFC Key Components


Type	Rating kVAr	Voltage V V(AC)	Description	Material Code	MRP List/ Pc in INR
<b>Three Phase Detuned Filter Reactor (Aluminium Wound)</b>					
HFR - AL - 7% DETUNED	50	690	Reactor 50kVAr,7%,690V, 50Hz , AL Strip	B44066D7050K690	44,431
HFR - AL - 7% DETUNED	25	690	Reactor 25kVAr,7%,690V, 50Hz , AL Foil	B44066D7025E690	38,677
HFR - AL - 7% DETUNED	50	690	Reactor 50kVAr,7%,690V, 50Hz , AL Foil	B44066D7050E690	59,683
HFR - AL - 14% DETUNED	10	440	Reactor 10kVAr,14%,440V, 50Hz, AL Strip	B44066D1410K440	17,541
HFR - AL - 14% DETUNED	15	440	Reactor 15kVAr,14%,440V, 50Hz, AL Strip	B44066D1415K440	25,499
HFR - AL - 14% DETUNED	20	440	Reactor 20kVAr,14%,440V, 50Hz, AL Strip	B44066D1420K440	32,594
HFR - AL - 14% DETUNED	5	440	Reactor 5kVAr, 14%,440V, 50Hz, AL Foil	B44066D1405E440	13,810
HFR - AL - 14% DETUNED	10	440	Reactor 10kVAr,14%,440V, 50Hz, AL Foil	B44066D1410E440	25,135
HFR - AL - 14% DETUNED	15	440	Reactor 15kVAr,14%,440V, 50Hz, AL Foil	B44066D1415E440	29,005
HFR - AL - 14% DETUNED	25	440	Reactor 25kVAr,14%,440V, 50Hz, AL Foil	B44066D1425E440	41,987
HFR - AL - 14% DETUNED	50	440	Reactor 50kVAr,14%,440V, 50Hz, AL Foil	B44066D1450E440	63,529
HFR - AL - 14% DETUNED	100	440	Reactor 100kVAr,14%,440V, 50Hz, AL Foil	B44066D1499E440	136,730
HFR - AL - 5.67% DETUNED	5	440	Reactor 5kVAr,5.67%,440V, 50Hz, 200%, AL Strip	B44066D5005K440	10,494
HFR - AL - 5.67% DETUNED	10	440	Reactor 10kVAr,5.67%,440V, 50Hz, 200%, AL Strip	B44066D5010K440	12,708
HFR - AL - 5.67% DETUNED	15	440	Reactor 15kVAr,5.67%,440V, 50Hz, 200%, AL Strip	B44066D5015K440	18,644
HFR - AL - 5.67% DETUNED	25	440	Reactor 25kVAr,5.67%,440V, 50Hz, 200%, AL Strip	B44066D5025K440	21,269
HFR - AL - 5.67% DETUNED	50	440	Reactor 50kVAr,5.67%,440V, 50Hz, 200%, AL Strip	B44066D5050K440	33,107
<b>Three Phase Detuned Filter Reactor (Copper Wound)</b>					
HFR - CU - 7% DETUNED	5	440	Reactor 5kVAr,7%,440V, 50Hz, Cu	B44066D7005J440	13,334
HFR - CU - 7% DETUNED	10	440	Reactor 10kVAr,7%,440V, 50Hz, Cu	B44066D7010J440	19,537
HFR - CU - 7% DETUNED	12.5	440	Reactor 12.5kVAr,7%,440V, 50Hz, Cu	B44066D7012J440	21,658
HFR - CU - 7% DETUNED	15	440	Reactor 15kVAr,7%,440V, 50Hz, Cu	B44066D7015J440	25,897
HFR - CU - 7% DETUNED	20	440	Reactor 20kVAr,7%,440V, 50Hz, Cu	B44066D7020J440	27,351
HFR - CU - 7% DETUNED	25	440	Reactor 25kVAr,7%,440V, 50Hz, Cu	B44066D7025J440	28,984
HFR - CU - 7% DETUNED	50	440	Reactor 50kVAr,7%,440V, 50Hz, Cu	B44066D7050J440	43,715
HFR - CU - 7% DETUNED	75	440	Reactor 75kVAr,7%,440V, 50Hz, Cu	B44066D7075J440	72,099
HFR - CU - 7% DETUNED	100	440	Reactor 100kVAr,7%,440V, 50Hz, Cu	B44066D7100J440	92,662
HFR - CU - 7% DETUNED	5	415	Reactor 5kVAr,7%,415V, 50Hz, Cu	B44066D7005J415	14,112
HFR - CU - 7% DETUNED	10	415	Reactor 10kVAr,7%,415V, 50Hz, Cu	B44066D7010J415	20,657
HFR - CU - 7% DETUNED	12.5	415	Reactor 12.5kVAr,7%,415V, 50Hz, Cu	B44066D7012J415	20,061
HFR - CU - 7% DETUNED	15	415	Reactor 15kVAr,7%,415V, 50Hz, Cu	B44066D7015J415	26,424
HFR - CU - 7% DETUNED	20	415	Reactor 20kVAr,7%,415V, 50Hz, Cu	B44066D7020J415	27,938
HFR - CU - 7% DETUNED	25	415	Reactor 25kVAr,7%,415V, 50Hz, Cu	B44066D7025J415	29,140
HFR - CU - 7% DETUNED	50	415	Reactor 50kVAr,7%,415V, 50Hz, Cu	B44066D7050J415	44,482
HFR - CU - 7% DETUNED	75	415	Reactor 75kVAr,7%,415V, 50Hz, Cu	B44066D7075J415	65,741
HFR - CU - 7% DETUNED	100	415	Reactor 100kVAr,7%,415V, 50Hz, Cu	B44066D7100J415	91,876
HFR - CU - 14% DETUNED	5	440	Reactor 5kVAr,14%,440V, 50Hz, Cu	B44066D1405J440	15,451
HFR - CU - 14% DETUNED	10	440	Reactor 10kVAr,14%,440V, 50Hz, Cu	B44066D1410J440	32,708
HFR - CU - 14% DETUNED	12.5	440	Reactor 12.5kVAr,14%,440V, 50Hz, Cu	B44066D1412J440	34,886
HFR - CU - 14% DETUNED	15	440	Reactor 15kVAr,14%,440V, 50Hz, Cu	B44066D1415J440	32,558
HFR - CU - 14% DETUNED	20	440	Reactor 20kVAr,14%,440V, 50Hz, Cu	B44066D1420J440	40,698
HFR - CU - 14% DETUNED	25	440	Reactor 25kVAr,14%,440V, 50Hz, Cu	B44066D1425J440	55,033
HFR - CU - 14% DETUNED	50	440	Reactor 50kVAr,14%,440V, 50Hz, Cu	B44066D1450J440	87,687

# LV PFC Key Components

Type	Rating kVAr	Voltage V V(AC)	Description	Material Code	MRP per Pc in INR From Jan 2022
<b>Three Phase Detuned Filter Reactor (Copper Wound)</b>					
HFR - CU - 14% DETUNED	75	440	Reactor 75kVAr,14%,440V, 50Hz, Cu	B44066D1475J440	121,448
HFR - CU - 14% DETUNED	100	440	Reactor 100kVAr,14%,440V, 50Hz, Cu	B44066D1499J440	143,422
HFR - CU - 5.67% DETUNED	5	440	Reactor 5kVAr,5.67%,440V, 50Hz, 200%,Cu	B44066D5005J440	20,324
HFR - CU - 5.67% DETUNED	10	440	Reactor 10kVAr,5.67%,440V, 50Hz, 200%,Cu	B44066D5010J440	19,561
HFR - CU - 5.67% DETUNED	12.5	440	Reactor 12.5kVAr,5.67%,440V, 50Hz, 200%,Cu	B44066D5012J440	20,745
HFR - CU - 5.67% DETUNED	25	440	Reactor 25kVAr,5.67%,440V, 50Hz, 200%,Cu	B44066D5025J440	29,176
HFR - CU - 5.67% DETUNED	50	440	Reactor 50kVAr,5.67%,440V, 50Hz, 200%,Cu	B44066D5050J440	42,505
HFR - CU - 5.67% DETUNED	100	440	Reactor 100kVAr,5.67%,440V, 50Hz, 200%,Cu	B44066D5100J440	98,428
HFR - CU - 7% DETUNED	5	440	Reactor 5kVAr,7%,440V, 50Hz, 200%,Cu	B44066D7005F440	20,281
HFR - CU - 7% DETUNED	10	440	Reactor 10kVAr,7%,440V, 50Hz, 200%,Cu	B44066D7010F440	23,535
HFR - CU - 7% DETUNED	12.5	440	Reactor 12.5kVAr,7%,440V, 50Hz, 200%,Cu	B44066D7012F440	24,433
HFR - CU - 7% DETUNED	20	440	Reactor 20kVAr,7%,440V, 50Hz, 200%,Cu	B44066D7020F440	33,172
HFR - CU - 7% DETUNED	25	440	Reactor 25kVAr,7%,440V, 50Hz, 200%,Cu	B44066D7025F440	35,595
HFR - CU - 7% DETUNED	50	440	Reactor 50kVAr,7%,440V, 50Hz, 200%,Cu	B44066D7050F440	61,351
HFR - CU - 7% DETUNED	100	440	Reactor 100kVAr,7%,440V, 50Hz, 200%,Cu	B44066D7100F440	113,706
HFR - CU - 14% DETUNED	10	440	Reactor 10kVAr,14%,440V, 50Hz, 200%,Cu	B44066D1410F440	32,881
HFR - CU - 14% DETUNED	15	440	Reactor 15kVAr,14%,440V, 50Hz, 200%,Cu	B44066D1415F440	34,825
HFR - CU - 14% DETUNED	25	440	Reactor 25kVAr,14%,440V, 50Hz, 200%,Cu	B44066D1425F440	59,186
HFR - CU - 14% DETUNED	50	440	Reactor 50kVAr,14%,440V, 50Hz, 200%,Cu	B44066D1450F440	88,090

# LV PFC Key Components

## High VTHD Reactor (12% to 20%)

	<b>Series</b>	High VTHD Reactor (12% to 20%) <b>NEW</b>
	<b>Technical data</b>	<ul style="list-style-type: none"> <li>• Operating voltage 400 to 440 Vac</li> <li>• Ratings 12.5 to 100kVAr</li> <li>• Frequency 50 /60 Hz</li> <li>• Ambient operating temperature at nominal load -5 to +55°C</li> <li>• Integrated cooling - AN</li> <li>• ROHS compatible</li> <li>• CE marking</li> </ul>
	<b>Features</b>	<ul style="list-style-type: none"> <li>• High linearity upto 250%</li> <li>• Temperature control via micro-switch in inner coil</li> <li>• High lifetime by high quality materials</li> <li>• High overloading capability</li> <li>• Safety device, temperature micro switch</li> <li>• Aluminium foil winding</li> <li>• Low noise</li> <li>• Broad Frequency Range</li> <li>• Enhanced Harmonic Filtering</li> <li>• Robust Construction</li> <li>• Simple installation and commissioning</li> </ul>

Type	Rating kVAr	Voltage V V(AC)	Description	Material Code	MRP List/ Pc in INR
<b>Three Phase Detuned Filter Reactor HVTHD (Aluminium Wound)</b>					
HFR - AL - 7% DETUNED	25	440	High THDV reactor 25kVAr, 7%, 440V,50Hz, Al Foil (12% VTHD)	B44066D7025E452	<b>32,672</b>
HFR - AL - 7% DETUNED	50	440	High THDV reactor 50kVAr, 7%, 440V,50Hz, Al Foil (12% VTHD)	B44066D7050E452	<b>46,451</b>
HFR - AL - 7% DETUNED	50	440	High THDV reactor 50kVAr, 7%, 440V,50Hz, Al Foil (16% VTHD)	B44066D7050E456	<b>50,659</b>
HFR - AL - 7% DETUNED	50	440	High THDV reactor 50kVAr, 7%, 440V,50Hz, Al Foil (20% VTHD)	B44066D7050E460	<b>73,796</b>

### Terms & condition

1. Above Prices are MRP prices including all Taxes and Duties.
2. Prices are subject to change without prior notice
3. This Supersedes all previous price Lists

# 600V/690V Solutions



## 600V/ 690V Solution

800v "ISI  
Marked"  
Capacitors



690v TSM  
or  
690v CDC



690v 7%  
Detuned  
Reactor



Universal PF  
Controllers  
BR5600 R/T



**One Stop Shop for all your PF Improvement Needs**

**Reach out to TDK Local Sales Representative for Prices**

# Product Change: Old Vs New

PhiCap ND Series Parts			Old Parts		New Parts	
Rating kVAr	Voltage V V(AC)	Description	Material Code	D x H mm	Material Code	D x H mm
1	440	PhiCap ND 440V 50Hz 1 kVAr 3Ph	B32344N4012A040	50 x 75	B32344N4012B040	50 x 75
1.2	440	PhiCap ND 440V50Hz 1.2 kVAr 3Ph	B32344N4012A240	50 x 75	B32344N4012B240	50 x 75
2	440	PhiCap ND 440V 50Hz 2 kVAr 3Ph	B32344N4022A040	50 x 112	B32344N4022B040	50 x 112
2.5	440	PhiCap ND 440V 50Hz 2.5 kVAr 3PH	B32344N4022A540	50 x 112	B32344N4022B540	50 x 112
3	440	PhiCap ND 440V 50Hz 3 kVAr 3Ph	B32344N4032A040	55 x 112	B32344N4032B040	55 x 112
4	440	PhiCap ND 440V 50Hz 4 kVAr 3Ph	B32344N4042A040	55 x 137	B32344N4042B040	55 x 137
5	440	PhiCap ND 440V 50Hz 5 kVAr 3Ph	B32344N4052A040	55 x 147	B32344N4052B040	55 x 147
7	440	PhiCap ND 440V 50Hz 7 kVAr 3Ph	B32344N4072A040	63 x 146	B32344N4072B040	63.5 x 146
7.5	440	PhiCap ND 440V 50Hz 7.5 kVAr 3Ph	B32344N4072A540	75 x 157	B32344N4072B540	75 x 157
8.3	440	PhiCap ND 440V 50Hz 8.3 KVAR 3Pn	B32344N4082A340	75 x 157	B32344N4082B340	75 x 157
10	440	PhiCap ND 440V 50Hz 10 kVAr 3Ph	B32344N4102A040	75 x 167	B32344N4102B040	75 x 167
12.5	440	PhiCap ND 440V 50Hz 12.5 kVAr 3Ph	B32344N4122A540	75 x 197	B32344N4122B540	75 x 197
15	440	PhiCap ND 440V 50Hz 15 kVAr 3Ph	B32344N4152A040	75 x 270	B32344N4152B040	85 x 197
20	440	PhiCap ND 440V 50Hz 20 kVAr 3Ph	B32344N4202A040	85 x 270	B32344N4202B040	75 x 272
25	440	PhiCap ND 440V 50Hz 25 kVAr 3Ph	B32344N4252A040	90 x 270	B32344N4252B040	85 x 272
30	440	PhiCap ND 440V 50Hz 30 kVAr 3Ph	B32344N4302A040	90 x 348	B32344N4302B040	90 x 272
Rating kVAr	Voltage V V(AC)	Description	Material Code	D x H mm	Material Code	D x H mm
5	480	PhiCap ND 480V 50Hz 5 kVAr 3Ph	B32344N4052A080	63 x 136	B32344N4052B080	63.5 x 136
5.5	480	PhiCap ND 480V 50Hz5.5 kVAr 3Ph	B32344N4052A580	63 x 136	B32344N4052B580	63.5 x 136
8.3	480	PhiCap ND 480V 50Hz 8.3 kVAr 3Ph	B32344N4082A380	75 x 167	B32344N4082B380	75 x 167
10.4	480	PhiCap ND 480V 50Hz 10.4 kVAr 3Ph	B32344N4102A480	75 x 197	B32344N4102B480	75 x 197
11.1	480	PhiCap ND 480V 50Hz 11.1 kVAr 3Ph	B32344N4112A180	75 x 197	B32344N4112B180	75 x 197
12.5	480	PhiCap ND 480V 50Hz 12.5 kVAr 3Ph	B32344N4122A580	75 x 197	B32344N4122B580	75 x 197
15	480	PhiCap ND 480V 50Hz 15 kVAr 3Ph	B32344N4152A080	75 x 270	B32344N4152B080	85 x 197
16.7	480	PhiCap ND 480V 50Hz 16.7 kVAr 3Ph	B32344N4162A780	75 x 270	B32344N4162B780	85 x 197
20.8	480	PhiCap ND 480V 50Hz 20.8 kVAr 3Ph	B32344N4202A880	85 x 270	B32344N4202B880	75 x 272
22.1	480	PhiCap ND 480V 50Hz 22.1 kVAr 3Ph	B32344N4222A180	85 x 348	B32344N4222B180	85 x 272
25	480	PhiCap ND 480V 50Hz 25 kVAr 3Ph	B32344N4252A080	85 x 348	B32344N4252B080	85 x 272
27.7	480	PhiCap ND 480V 50Hz 27.7 kVAr 3Ph	B32344N4272A780	90 x 348	B32344N4272B780	90 x 272
30	480	PhiCap ND 480V 50Hz 30 kVAr 3Ph	B32344N4302A080	90 x 348	B32344N4302B080	90 x 272
Rating kVAr	Voltage V V(AC)	Description	Material Code	D x H mm	Material Code	D x H mm
5	525	PhiCap ND 525V 50Hz 5 kVAr 3Ph	B32344N5052A025	63 x 146	B32344N5052B025	63.5 x 146
6.6	525	PhiCap ND 525V 50Hz 6.6 kVAr 3Ph	B32344N5062A625	75 x 157	B32344N5062B625	75 x 157
7.5	525	PhiCap ND 525V 50Hz 7.5 kVAr 3Ph	B32344N5072A525	75 x 167	B32344N5072B525	75 x 167
10.4	525	PhiCap ND 525V 50Hz 10.4 kVAr 3Ph	B32344N5102A425	75 x 197	B32344N5102B425	75 x 197
13.2	525	PhiCap ND 525V 50Hz 13.2 kVAr 3Ph	B32344N5132A225	85 x 270	B32344N5132B225	85 x 197
16.7	525	PhiCap ND 525V 50Hz 16.7 kVAr 3Ph	B32344N5162A725	85 x 270	B32344N5162B725	75 x 272
20.8	525	PhiCap ND 525V 50Hz 20.8 kVAr 3Ph	B32344N5202A825	90 x 270	B32344N5202B825	85 x 272
25	525	PhiCap ND 525V 50Hz 25 kVAr 3Ph	B32344N5252A025	90 x 348	B32344N5252B025	85 x 272

# Product Change: Old Vs New

PhiCap HD Series Parts			Old Parts		New Parts	
Rating kVAr	Voltage V V(AC)	Description	Material Code	D x H mm	Material Code	D x H mm
1.0	440	PhiCap HD ROU 440V 50Hz 1kVAr 3Ph	B32447H4012A040	53 x 117	B32447H4012B040	50 x 75
2.0	440	PhiCap HD ROU 440V 50Hz 2kVAr 3Ph	B32447H4022A040	53 x 117	B32447H4022B040	50 x 112
3.0	440	PhiCap HD ROU 440V 50Hz 3kVAr 3Ph	B32447H4032A040	53 x 117	B32447H4032B040	55 x 112
4.0	440	PhiCap HD ROU 440V 50Hz 4kVAr 3Ph	B32447H4042A040	53 x 152	B32447H4042B040	55 x 137
5.0	440	PhiCap HD ROU 440V 50Hz 5kVAr 3Ph	B32447H4052A040	53 x 152	B32447H4052B040	55 x 147
6.0	440	PhiCap HD ROU 440V 50Hz 6kVAr 3Ph	B32447H4062A040	63 x 152	B32447H4062B040	63.5 x 136
7.5	440	PhiCap HD SIG 440V 50Hz 7.5kVAr 3Ph	B32448H4072A540	75 x 160	B32448H4072B540	75 x 162
8.3	440	PhiCap HD SIG 440V 50Hz 8.3kVAr 3Ph	B32448H4082A340	75 x 160	B32448H4082B340	75 x 162
10.0	440	PhiCap HD SIG 440V 50Hz 10kVAr 3Ph	B32448H4102A040	75 x 197	B32448H4102B040	75 x 197
12.5	440	PhiCap HD SIG 440V 50Hz 12.5kVAr 3Ph	B32448H4122A540	75 x 197	B32448H4122B540	75 x 197
15.0	440	PhiCap HD SIG 440V 50Hz 15kVAr 3Ph	B32448H4152A040	75 x 270	B32448H4152B040	85 x 197
20.0	440	PhiCap HD SIG 440V 50Hz 20kVAr 3Ph	B32448H4202A040	85 x 270	B32448H4202B040	75 x 272
25.0	440	PhiCap HD SIG 440V 50Hz 25kVAr 3Ph	B32448H4252A040	90 x 270	B32448H4252B040	85 x 272
30.0	440	PhiCap HD SIG 440V 50Hz 30kVAr 3Ph	B32448H4302A040	90 x 348	B3244H4302B040	90 x 272
Rating kVAr	Voltage V V(AC)	Description	Material Code	D x H mm	Material Code	D x H mm
5.0	480	PhiCap HD ROU 480V 50Hz 5kVAr 3Ph	B32447H4052A080	63 x 152	B32447H4052B080	63.5 x 136
5.5	480	PhiCap HD ROU 480V 50Hz 5.5kVAr 3Ph	B32447H4052A580	63 x 152	B32447H4052B580	63.5 x 136
6.3	480	PhiCap HD ROU 480V 50Hz 6.3kVAr 3Ph	B32447H4062A380	63 x 152	B32447H4062B380	63.5 x 146
8.3	480	PhiCap HD SIG 480V 50Hz 8.3kVAr 3Ph	B32448H4082A380	75 x 160	B32448H4082B380	75 x 162
10.4	480	PhiCap HD SIG 480V 50Hz 10.4kVAr 3Ph	B32448H4102A480	75 x 197	B32448H4102B480	75 x 197
11.1	480	PhiCap HD SIG 480V 50Hz 11.1kVAr 3Ph	B32448H4112A180	75 x 197	B32448H4112B180	75 x 197
12.5	480	PhiCap HD SIG 480V 50Hz 12.5kVAr 3Ph	B32448H4122A580	75 x 197	B32448H4122B580	75 x 197
13.8	480	PhiCap HD SIG 480V 50Hz 13.8kVAr 3Ph	B32448H4132A880	75 x 270	B32448H4132B880	85 x 197
15.0	480	PhiCap HD SIG 480V 50Hz 15kVAr 3Ph	B32448H4152A080	75 x 270	B32448H4152B080	85 x 197
16.7	480	PhiCap HD SIG 480V 50Hz 16.7kVAr 3Ph	B32448H4162A780	85 x 270	B32448H4162B780	85 x 197
18.7	480	PhiCap HD SIG 480V 50Hz 18.7kVAr 3Ph	B32448H4182A780	85 x 270	B32448H4182B780	75 x 272
20.0	480	PhiCap HD SIG 480V 50Hz 20kVAr 3Ph	B32448H4202A080	85 x 270	B32448H4202B080	75 x 272
22.0	480	PhiCap HD SIG 480V 50Hz 22kVAr 3Ph	B32448H4222A080	85 x 348	B32448H4222B080	85 x 272
25.0	480	PhiCap HD SIG 480V 50Hz 25kVAr 3Ph	B32448H4252A080	85 x 348	B32448H4252B080	85 x 272
27.7	480	PhiCap HD SIG 480V 50Hz 27.7kVAr 3Ph	B32448H4272A780	90 x 348	B32448H4272B780	90 x 272
28.1	480	PhiCap HD SIG 480V 50Hz 28.1kVAr 3Ph	B32448H4282A180	90 x 348	B32448H4282B180	90 x 272
30.0	480	PhiCap HD SIG 480V 50Hz 30kVAr 3Ph	B32448H4302A080	90 x 348	B32448H4302B080	90 x 272
Rating kVAr	Voltage V V(AC)	Description	Material Code	D x H mm	Material Code	D x H mm
5.0	525	PhiCap HD ROU 525V 50Hz 5kVAr 3Ph	B32447H5052A025	63 x 152	B32447H5052B025	63.5 x 146
6.3	525	PhiCap HD SIG 525V 50Hz 6.3kVAr 3Ph	B32448H5062A325	75 x 160	B32448H5062B325	75 x 162
6.6	525	PhiCap HD SIG 525V 50Hz 6.6kVAr 3Ph	B32448H5062A625	75 x 160	B32448H5062B625	75 x 162
8.3	525	PhiCap HD SIG 525V 50Hz 8.3kVAr 3Ph	B32448H5082A325	75 x 160	B32448H5082B325	75 x 162
10.4	525	PhiCap HD SIG 525V 50Hz 10.4kVAr 3Ph	B32448H5102A425	75 x 197	B32448H5102B425	75 x 197
12.5	525	PhiCap HD SIG 525V 50Hz 12.5kVAr 3Ph	B32448H5122A525	85 x 197	B32448H5122B525	85 x 197
13.2	525	PhiCap HD SIG 525V 50Hz 13.2kVAr 3Ph	B32448H5132A225	75 x 270	B32448H5132B225	85 x 197

# Product Change: Old Vs New

PhiCap HD Series Parts			Old Parts		New Parts	
Rating kVAr	Voltage V V(AC)	Description	Material Code	D x H mm	Material Code	D x H mm
15.0	525	PhiCap HD SIG 525V 50Hz 15kVAr 3Ph	B32448H5152A025	85 x 270	B32448H5152B025	85 x 197
16.7	525	PhiCap HD SIG 525V 50Hz 16.7kVAr 3Ph	B32448H5162A725	85 x 270	B32448H5162B725	75 x 272
20.0	525	PhiCap HD SIG 525V 50Hz 20kVAr 3Ph	B32448H5202A025	90 x 270	B32448H5202B025	85 x 272
25.0	525	PhiCap HD SIG 525V 50Hz 25kVAr 3Ph	B32448H5252A025	90 x 348	B32448H5252B025	85 x 272
26.5	525	PhiCap HD SIG 525V 50Hz 26.5kVAr 3Ph	B32448H5262A525	90 x 348	B32448H5262B525	90 x 272
30.0	525	PhiCap HD SIG 525V 50Hz 30kVAr 3Ph	B32448H5302A025	116 x 280	B32448H5302B025	85 x 348
33.1	525	PhiCap HD SIG 525V 50Hz 33.1kVAr 3Ph	B32448H5332A125	116 x 280	B32448H5332B125	85 x 348
PhaseCap Energy Plus SHD Series Parts			Old Parts		New Parts	
Rating kVAr	Voltage V V(AC)	Description	Material Code	D x H mm	Material Code	D x H mm
1.0	440	PhaseCap Energy Plus SHD 440V 50/60Hz 1/1.2kVAr 3Ph	B25675L4012J040	50 x 75	B25675L4012B040	50 x 75
2.0	440	PhaseCap Energy Plus SHD 440V 50/60Hz 2/2.4kVAr 3Ph	B25675L4022J040	50 x 112	B25675L4022B040	50 x 112
3.0	440	PhaseCap Energy Plus SHD 440V 50/60Hz 3/3.6kVAr 3Ph	B25675L4032J040	55 x 112	B25675L4032B040	55 x 112
4.0	440	PhaseCap Energy Plus SHD 440V 50/60Hz 4/4.8kVAr 3Ph	B25675L4042J040	55 x 137	B25675L4042B040	55 x 137
5.0	440	PhaseCap Energy Plus SHD 440V 50/60Hz 5/6kVAr 3Ph	B25675L4061J040	55 x 147	B25675L4061B040	55 x 147

# Cautions and Warnings:

## Reactors – Antiresonance harmonic filter

During operation, all electrically active parts of this equipment such as windings, electronic components, leads, fuses and terminals carry a dangerous voltage which can lead to burns or electric shock.

Covers which protect these electrically active parts from being touched must not be opened or removed during operation.

Before any assembly or maintenance work is started, all installations and equipment must be disconnected from the power source.

Noncompliance with these instructions may lead to death, serious injury or major damage to equipment.

In order to exclude impermissible temperatures and thus overload of the insulation system, the following directions must additionally be observed:

1. Only those protective devices specified on the type plates, such as fuses and motor protection switches, may be used. It is mandatory to observe the set values specified for the motor protection switches. Any temperature-sensitive protective devices such as temperature switches and temperature sensors must be connected in accordance with the installation instructions.
2. High temperatures are permissible for the surfaces under rated operating conditions, and especially in the event of overload. Depending on the temperature class and type of loading, these may attain values of up to 260 °C and may also affect adjacent components which have been packed too densely
3. The insertion position should be selected so that any cooling ducts present within the winding are arranged vertically and that the current of cooling air is not impeded by adjacent components, connecting leads etc.

4. The maximum voltage of the insulating system specified on the type plate must not be exceeded.

Noncompliance with these instructions may lead to considerable damage to equipment or fire due to impermissibly high temperatures.

Thyristor modules (TSM-series)

- Live parts in the PFC equipment must not be touched!
- Warning signs in the PFC systems are required!
- Wait 10 minutes after the main switch is turned off until the voltage in the system has dropped to an uncritical value.
- In non-detuned systems (400 V grid) capacitors with a higher voltage rating (e.g. 440 V) are needed.
- In detuned systems (400 V grid) capacitors with a voltage of 525 V are needed.
- For discharging the capacitors, special high voltage resistors type EW-22 are required. Standard resistors cannot be used!
- In dynamic PFC systems discharge reactors cannot be used (this would be a short circuit of the high voltage DC)!
- In PFC systems without filter circuit reactors current limiting reactors are required (e.g. BD-series) for the TSM.
- For short circuit protection, superfast electronic fuses for protection of the thyristor are required, standard HRC fuses are not suitable. See selection table on pages 101 and 102.
- Failure to follow cautions may result, worst case, in premature failures or physical injury.

## Capacitor contactors

In case auxiliary contacts are used for switching of discharge resistors (not in accordance with IEC 60831 standard), make sure that the current of the discharge resistors is not higher than the rated current of the auxiliary contacts.

Only flame-resistant and self extinguishing materials may be used in the proximity of capacitor contactors because abnormal temperatures cannot be ruled out in the area near the resistance spirals.

## PF controllers (BR4200, BR6000, BR2100 and BR5600 all series)

Controller hunting: When putting the capacitor bank into operation, it is required to avoid needless switching cycles (means permanent switching on and off of steps without significant change of consumer loads). This so called “controller hunting” would increase the number of switching operations of the connected contactors and capacitors, decrease the expected life cycle (wear out) and result, in worst case, in bursting and fire etc. This can be avoided by a proper programming of the PF controllers with the actual system parameters (current transformer prim. and sec., first kvar step, control series, switching time).

The “ZVEI General safety recommendations for power capacitors” must be observed in addition to the safety instructions given in this catalogue and in the particular data-sheets. They are available on the TDK website in the various product groups. They may also be called up from the ZVEI website.

# Cautions and Warnings:

## Mean life expectancy

The mean life expectancy of power capacitors is mainly governed by the following factors:

- Duration of overload,
- Ambient temperature and the resulting case temperature,
- Maximum rms current and the resulting case temperature,
- Voltage intensity (With respect to Capacitor rated voltage) and duration.

## Fuse protection

Power capacitors have to be protected against short circuits by fuses or thermal magnetic over current relays. The fuse rating should be 1.6 to 1.8 times the rated current of the capacitor. Magnetic short circuit relays should be set between 9 to 12 times rated current to prevent them from nuisance tripping. Maximum allowed fault current of 10000 A in accordance with UL 810 standard must be ensured by the application design.

HRC fuses must not be used for switching.

Resulting electric arcing can be very dangerous. It may also cause capacitor failures, and result, worst case, in capacitor bursting and fire.

## Switching of capacitors

When a capacitor is switched to an AC system, the result is a resonant circuit damped to a greater or lesser degree. In addition to the rated current, the capacitor accepts a transient current that is a multiple of its rated current. Special capacitor contactors with leading contacts that feature precharging resistors to damp inrush currents are recommended. As per IEC 60831 standard, a maximum of 5000 switching operations per year is acceptable.

## Discharging

Capacitors must be discharged to a maximum of 10% of rated voltage before they are switched in again. This prevents an electric impulse discharge in the application, influences the capacitor's useful life in PFC systems, and protects against electric

shock. The capacitor must be discharged to 50 V within 60 Sec. Caution: Discharge and short circuit capacitor before handling!

## Capacitors in networks with harmonics

Most international standards limit THD-V on LV side to 5%. However it has to be noted that in many grids these levels are exceeded and even lower distortion, e.g. 3–4% THD-V can generate extreme over current in case of resonance condition. Maximum over current as specified under technical data of each series must not be exceeded.

Resonance must be avoided by appropriate panel design. Resonance may cause very high over current which can lead to capacitor failures, and worst case, to explosion and fire.

## Connection:

Make sure connection cables are of flexible type or flexible copper bands are used. This is mandatory to allow the overpressure disconnecter work and avoid mechanical stress on the terminals and feedthroughs. Avoid bending cable lugs, cables or other mechanical force on the terminals. Otherwise leakages may set the safety device out of operation.

## Grounding:

The threaded bottom stud of the cylindrical capacitor has to be used for grounding, where as in case of SquareCap capacitor the designated earthing screw should be used for this purpose.

## Storage and operating conditions:

Do not use or store capacitors in corrosive atmosphere, especially where chloride gas, sulfide gas, acid, alkali, salt or the like are present. In dusty environments regular maintenance and cleaning especially of the terminals is required to avoid conductive path between phases and / or phases and ground.

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### Important information:

Some parts of this publication contain statements about the suitability to our products for certain areas of application. These statements are based on our knowledge of typical requirements that are often placed on our products. We expressly point out that these statements cannot be regarded as binding statements about the suitability of our products for a particular customer application. It is incumbent on the customer to check and decide whether the product is suitable for use in a particular application. This publication is only a brief product survey which may be changed from time to time. Our products are described in detail in our data sheets. The Important Notes ([www.epcos.com/ImportantNotes](http://www.epcos.com/ImportantNotes)) and the product-specific warnings and cautions must be observed. All relevant information is available through our sales offices.

### Warranty:

1. Products manufactured by us are warranted against defects arising out of manufacturing processes or use of defective raw material, for a period of 18 months from the date of our supply or 12 months from the date of installation whichever is earlier. The company reserves the right to either replace or to repair the defective items after ascertaining facts through a detailed service report on appropriate usage of our products in rated conditions. The company reserves the right to take back the defective goods for carrying out study or inspection.
2. Warranty is not applicable if the products are found tampered with or subjected to calibration changes. The company's liability is limited to repair or replace the defective product only. The manufacturer shall not be liable for any consequential loss, injury or damages attributable to defect or failure of its products.
3. Proof of purchase to be retained to avail warranty.
4. Any dispute arising in this regard shall be subjected to jurisdiction of courts in Nashik, in the state of Maharashtra - India.

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