



## Features

- Square Design - Normal/Heavy Duty MPP Capacitor.
- Metallized polypropylene (MPP) film design.
- C.R.C.A. square box casing design.
- Biodegradable Resin/Oil impregnation gives cooling effect.
- Louvers provided for better heat dissipation.
- Explosion proof design.
- Low losses due to advanced winding and spray equipments.

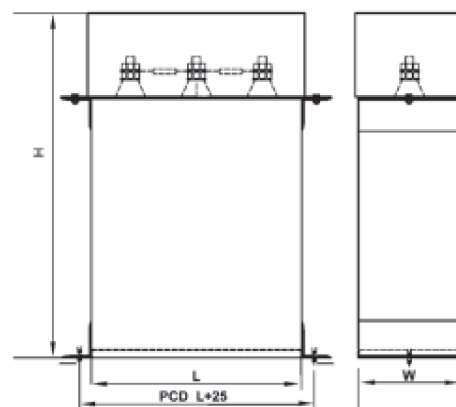
## Applications

- Fixed P.F. correction.
- Automatic P.F. correction.
- Harmonic filter system.



Technical Data	BOX-VAR Normal Duty	BOX-VAR Heavy Duty
STANDARDS	IS 13340-1/2	IS 13340-1/2
RATED VOLTAGE (U <sub>N</sub> )	415...440 VOLT	440...525 VOLT
RATED FREQUENCY	50/60 Hz	50/60 Hz
OVER VOLTAGE	U <sub>N</sub> + 10% 12 hours in every 24 h U <sub>N</sub> + 15% 30 min. in every 24 h U <sub>N</sub> + 20% 5 min. in every 24 h U <sub>N</sub> + 30% 1 min. in every 24 h	U <sub>N</sub> + 10% 12 hours in every 24 h U <sub>N</sub> + 15% 30 min. in every 24 h U <sub>N</sub> + 20% 5 min. in every 24 h U <sub>N</sub> + 30% 1 min. in every 24 h
OVER CURRENT	1.8 * I <sub>N</sub>	2.8 * I <sub>N</sub>
CAPACITANCE TOLERANCE	-5 to +10% As per standards	-5 to +10% As per standards
TEST VOLTAGE, TERMINAL	2.15 * U <sub>N</sub> , AC 2S	2.15 * U <sub>N</sub> , AC 2S
TEST VOLTAGE, TERMINAL & CASE	3.6 kV, AC 2S	3.6 kV, AC 2S
INRUSH CURRENT	Up to 300 * I <sub>N</sub>	Up to 450 * I <sub>N</sub>
LOSSES	<0.20 W/kVAr (Dielectric) <0.50 W/kVAr (Total)	<0.20 W/kVAr (Dielectric) <0.50 W/kVAr (Total)
CASING	C.R.C.A. Square box casing	C.R.C.A. Square box casing
ENCLOSURE	Indoor mounting	Indoor mounting
MEAN LIFE EXPECTANCY	1,35,000 h	1,80,000 h
TEMPERATURE CLASS	-10/55°C	-25/55°C
COOLING	Natural air cooled	Natural air cooled
DIELECTRIC SYSTEM	Metallized polypropylene film, Self-healing property	Metallized polypropylene film, Self-healing property
IMPREGNATION	NPCB, Biodegradable natural semi soft resin	NPCB, Biodegradable natural semi soft resin
SAFETY FEATURES	Overpressure sensitive 3 ph disconnecter	Overpressure sensitive 3 ph disconnecter
ALTITUDE	Max. 3000 meter above sea level	Max. 4000 meter above sea level
RELATIVE HUMIDITY	Max. 95%	Max. 95%
MOUNTING POSITION	Vertical	Vertical
MOUNTING & EARTHING	Vertical or wall mounting	Vertical or wall mounting
DISCHARGE DEVICE	External 3 minutes, 75V	External 3 minutes, 75V
TERMINALS	Threaded studs M4,M6,M8, M10,M12	Threaded studs M4,M6,M8, M10,M12

ND/HD Sq. Cap.  
DRAW. SC-1



Note : U<sub>N</sub> - RMS Voltage at fundamental frequency without harmonics.  
I<sub>N</sub> - Rated RMS current (line) at rated voltage and frequency without transients.

## BOX-VAR

BOX-VAR Series - Normal Duty - 415 Volts - 50 Hz - 3 Ph - Delta Connection					
Product Code	Output kVAR	Capacitance ( in Mfd )	Current ( in Amp )	Dimensions L*W*H (in mm)	Drawing No.
SC-N010-R0415-S1S3	1.0	3*6.16	1.39	145*50*220	SC-1
SC-N020-R0415-S1S3	2.0	3*12.33	2.78	145*50*220	SC-1
SC-N030-R0415-S1S3	3.0	3*18.49	4.17	145*50*220	SC-1
SC-N040-R0415-S1S3	4.0	3*24.66	5.56	145*50*220	SC-1
SC-N050-R0415-S1S3	5.0	3*30.82	6.96	185*75*235	SC-1
SC-N075-R0415-S1S3	7.5	3*46.23	10.43	185*75*235	SC-1
SC-N100-R0415-S1S3	10.0	6*30.82	13.91	175*115*280	SC-1
SC-N125-R0415-S1S3	12.5	6*38.52	17.39	175*115*280	SC-1
SC-N150-R0415-S1S3	15.0	6*46.23	20.87	175*115*280	SC-1
SC-N200-R0415-S1S3	20.0	12*30.82	27.82	225*155*315	SC-1
SC-N250-R0415-S1S3	25.0	12*38.52	34.78	225*155*315	SC-1

BOX-VAR Series - Normal Duty - 440 Volts - 50 Hz - 3 Ph - Delta Connection					
Product Code	Output kVAR	Capacitance ( in Mfd )	Current ( in Amp )	Dimensions L*W*H (in mm)	Drawing No.
SC-N010-R0440-S1S3	1.0	3*5.48	1.31	145*50*220	SC-1
SC-N020-R0440-S1S3	2.0	3*10.97	2.62	145*50*220	SC-1
SC-N030-R0440-S1S3	3.0	3*16.45	3.94	145*50*220	SC-1
SC-N040-R0440-S1S3	4.0	3*21.93	5.25	145*50*220	SC-1
SC-N050-R0440-S1S3	5.0	3*27.42	6.56	185*75*235	SC-1
SC-N075-R0440-S1S3	7.5	3*41.42	9.84	185*75*235	SC-1
SC-N100-R0440-S1S3	10.0	6*27.42	13.12	175*115*280	SC-1
SC-N125-R0440-S1S3	12.5	6*34.27	16.40	175*115*280	SC-1
SC-N150-R0440-S1S3	15.0	6*41.42	19.68	175*115*280	SC-1
SC-N200-R0440-S1S3	20.0	12*27.42	26.24	225*155*315	SC-1
SC-N250-R0440-S1S3	25.0	12*34.27	32.80	225*155*315	SC-1

BOX-VAR Series - Heavy Duty - 440 Volts - 50 Hz - 3 Ph - Delta Connection					
Product Code	Output kVAR	Capacitance ( in Mfd )	Current ( in Amp )	Dimensions L*W*H (in mm)	Drawing No.
SC-H050-R0440-S1S3	5.0	3*27.42	6.56	180*70*265	SC-1
SC-H075-R0440-S1S3	7.5	3*41.12	9.84	180*70*265	SC-1
SC-H100-R0440-S1S3	10.0	6*27.42	13.12	200*125*315	SC-1
SC-H125-R0440-S1S3	12.5	6*34.27	16.40	200*125*315	SC-1
SC-H150-R0440-S1S3	15.0	6*41.12	19.68	200*125*315	SC-1
SC-H200-R0440-S1S3	20.0	12*27.42	26.24	237*182*365	SC-1
SC-H250-R0440-S1S3	25.0	12*34.27	32.80	237*182*365	SC-1
SC-H500-R0440-S1S3	50.0	8*51.40	65.61	305*157*455	SC-1

BOX-VAR Series - Heavy Duty - 525 Volts - 50 Hz - 3 Ph - Delta Connection					
Product Code	Output kVAR	Capacitance ( in Mfd )	Current ( in Amp )	Dimensions L*W*H (in mm)	Drawing No.
SC-H050-R0525-S1S3	5.0	3*19.26	5.50	180*70*265	SC-1
SC-H075-R0525-S1S3	7.5	3*28.89	8.25	180*70*265	SC-1
SC-H100-R0525-S1S3	10.0	6*19.26	11.00	200*125*315	SC-1
SC-H125-R0525-S1S3	12.5	6*24.07	13.75	200*125*315	SC-1
SC-H150-R0525-S1S3	15.0	6*28.89	16.50	200*125*315	SC-1
SC-H200-R0525-S1S3	20.0	12*19.26	21.99	237*182*365	SC-1
SC-H250-R0525-S1S3	25.0	12*24.07	27.49	237*182*365	SC-1

Other voltage rating ,output Kvar,single-phase and Frequency available on request.