

## Normal/Heavy Duty Box Type MKP Capacitor

### Features

- Metallised polypropylene (MKP) film design
- C.R.C.A. square box casing design
- Jelly/Oil impregnation gives cooling effect
- Lowers provided for heat dissipation
- Explosion proof design
- Low losses due to advanced winding and zinc spray equipments.

### Application

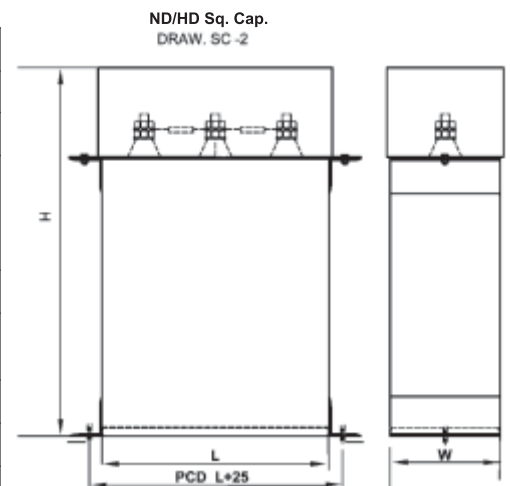
- Fixed PF. correction
- Automatic P.F. Correction
- Harmonic Filter System



### THREE PHASE CAPACITORS IN SQUARE BOX CASING. (C.R.C.A.)

#### TECHNICAL DATA

STANDARDS	IS 13340 + 1, IEC 60831 -1 & 2
RATED VOLTAGE.	230...525 VOLT.
RATED FREQUENCY.	50/60 Hz.
OVER VOLTAGE.	UN + 10% 12 h in every 24 h. UN + 15% 30 min in every 24 h. UN + 20% 5 min in every 24 h. UN + 30% 1 min in every 24 h.
OVER CURRENT.	1.3 * IN
CAPACITANCE TOLERANCE.	.-5 to + 10 % As per standards. 0 to + 5% As per our ICS ( Internal Capacitor Standard.)
TEST VOLTAGE, TERMINAL.	2.15 * UN ,AC. 2S
TEST VOLTAGE, TERMINAL/CASE.	4.8 Kv ,AC 2S.
INRUSH CURRENT.	Max 300 * IN
LOSSES.	App.< 0.25 W/kVAr (without discharge resistors) App.< 0.50 W/kVAr (inclusive discharge resistors as per IEC ) App.< 0.60 W/kVAr (inclusive discharge resistors as per BIS )
CASING.	C.R.C.A. square box casing.
ENCLOSURE.	Indoor mounting.
LIFE EXPECTANCY.	>100.000h Temp level D. >130.000h Temp level C
AMBIENT TEMPERATURE.	.-25 / D
COOLING.	Natural air cooled
DIELECTRIC SYSTEM.	MKP metallised polypropylene film , self-healing property.
IMPREGNATION.	NPCB,biodegradable natural oil.
SAFETY FEATURES.	Over pressure sensitive 3 phase disconnecter.
ALTITUDE.	Max.2000 mtr above sea level.
RELATIVE HUMIDITY.	Max 95 %
MOUNTING POSITION.	Vertical.
MOUNTING & EARTHING.	Vertical or wall mounting, refer drawing nos. for mounting PCD.
DISCHARGE RESISTORS.	External ,1 minutes,50 V.
TERMINALS.	AW SqcAP Cable provided for connections. Threaded studs,M4,M6,M8,M10 & M12.



### THREE PHASE CAPACITORS IN SQUARE BOX CASING. (C.R.C.A.) NORMAL DUTY TYPE

NORMAL DUTY TYPE, RATED VOLTAGE 440 V, 50Hz, 3-PHASE, DELTA CONNECTION						
Type	Reactive Power	Capacitance	Current	Dimensions L*W*H mm	Weight Kg.(Appr.)	Drawing No.
	Output Kvar.	mf	A			
ND SqCap 440,3,01.00	1	3*5.48	1.37	150*55*220	1.29	SC-2
ND SqCap 440,3,02.00	2	3*11.00	2.62	150*55*220	1.32	SC-2
ND SqCap 440,3,03.00	3	3*16.44	3.94	150*55*220	1.36	SC-2
ND SqCap 440,3,04.00	4	3*21.92	5.25	150*55*220	1.40	SC-2
ND SqCap 440,3,05.00	5	3*27.40	6.56	190*80*235	2.30	SC-2
ND SqCap 440,3,07.50	7.5	3*41.10	9.84	190*80*235	2.40	SC-2
ND SqCap 440,3,10.00	10	3*54.80	13.12	180*120*280	3.60	SC-2
ND SqCap 440,3,12.50	12.5	3*68.5	16.40	180*120*280	3.70	SC-2
ND SqCap 440,3,15.00	15	3*82.2	16.68	225*155*320	5.20	SC-2
ND SqCap 440,3,20.00	20	3*109.6	26.24	225*155*320	5.50	SC-2
ND SqCap 440,3,25.00	25	3*137.0	32.80	225*155*320	5.80	SC-2

Standard banks of 75 kVAr to 200kVAr available on request.

### NORMAL DUTY TYPE : NORMAL DUTY TYPE, RATED VOLTAGE 415 V, 50Hz, 3-PHASE, DELTA CONNECTION

ND SqCap 415,3,01.00	1	3*6.16	1.39	150*55*220	1.41	SC-2
ND SqCap 415,3,02.00	2	3*12.32	2.78	150*55*220	1.49	SC-2
ND SqCap 415,3,03.00	3	3*18.48	4.17	150*55*220	1.55	SC-2
ND SqCap 415,3,04.00	4	3*24.64	5.56	150*55*220	1.61	SC-2
ND SqCap 415,3,05.00	5	3*30.80	6.96	190*80*235	2.40	SC-2
ND SqCap 415,3,07.50	7.5	3*46.20	10.43	190*80*235	2.55	SC-2
ND SqCap 415,3,10.00	10	3*61.60	13.91	180*120*280	3.62	SC-2
ND SqCap 415,3,12.50	12.5	3*77.00	17.39	180*120*280	3.92	SC-2
ND SqCap 415,3,15.00	15	3*92.40	20.87	225*155*320	5.30	SC-2
ND SqCap 415,3,20.00	20	3*123.20	27.82	225*155*320	5.90	SC-2
ND SqCap 415,3,25.00	25	3*154.00	34.78	225*155*320	6.30	SC-2

### HEAVY DUTY / HDXL Sq. Cap. Type : HD/HDXL Sq. Cap Type, RATED VOLTAGE 440 V, 50Hz, 3-PHASE, DELTA CONNECTION

HD SqCap 440,3,05.00	5	3*27.40	6.56	185*75*265	2.25	SC-2
HD SqCap 440,3,07.50	7.5	3*41.10	9.84	185*75*265	2.40	SC-2
HD SqCap 440,3,10.00	10	3*54.80	13.12	205*130*315	3.75	SC-2
HD SqCap 440,3,12.50	12.5	3*68.5	16.40	205*130*315	3.85	SC-2
HD SqCap 440,3,15.00	15	3*82.2	16.68	205*130*315	4.25	SC-2
HD SqCap 440,3,20.00	20	3*109.6	26.24	240*190*370	7.00	SC-2
HD SqCap 440,3,25.00	25	3*137.0	32.80	240*190*370	7.21	SC-2
HD SqCap 440,3,50.00	50	3*274.0	65.61	305*160*455	10.20	SC-2

### HD/HDXL Sq. Cap Type, RATED VOLTAGE 525 V, 50Hz, 3-PHASE, DELTA CONNECTION

HD SqCap 525,3,05.00	5	3*19.25	5.50	185*75*265	2.32	SC-2
HD SqCap 525,3,07.50	7.5	3*28.87	8.25	185*75*265	2.65	SC-2
HD SqCap 525,3,10.00	10	3*38.49	11.00	205*130*315	3.75	SC-2
HD SqCap 525,3,12.50	12.5	3*48.11	13.75	205*130*315	4.05	SC-2
HD SqCap 525,3,15.00	15	3*57.74	16.50	205*130*315	4.50	SC-2
HD SqCap 525,3,20.00	20	3*76.98	21.99	240*190*370	7.30	SC-2
HD SqCap 525,3,25.00	25	3*96.23	27.49	240*190*370	7.74	SC-2

Other voltage rating ,output Kvar,single-phase and Frequency available on request.  
Drawing at end of data sheet.