



## Corporate Profile

Power Capacitors

Current Transformers

Reactors

**MATRIX**  
Power Saver



## About Us

**M**atrix Control & Engineers Private Limited, is one of the fast growing companies, engaged in the manufacture, sales and service of low voltage capacitors, reactors and current transformers. Matrix began its manufacturing activity in an automated state-of-the-art facility, for low voltage Capacitors, spread over 15000 sq.ft. in 2005. Today, the company has forayed into the manufacture of reactors and current transformers.

### Infrastructure:

- Automatic Winding
- Vacuum Impregnation
- Zinc Spraying
- Core Manufacturing
- 150 Skilled workforce
- 25 Qualified Engineers
- ISO 9001 Certified Systems
- Product Certifications CPRI, CE
- Conformity to Latest IEC Standards
- 125 Channel Partners
- Over 250 Satisfied Customers

# Products

## Power Capacitors

- Compliance to IEC & IS standards
- Extruded aluminum casing for cylindrical capacitors
- Impregnation- soft resin
- Natural cooling
- Self healing technology
- In-built safety device OPD & discharge resistor
- Dry type construction
- Extremely low dielectric losses
- Low watt loss design

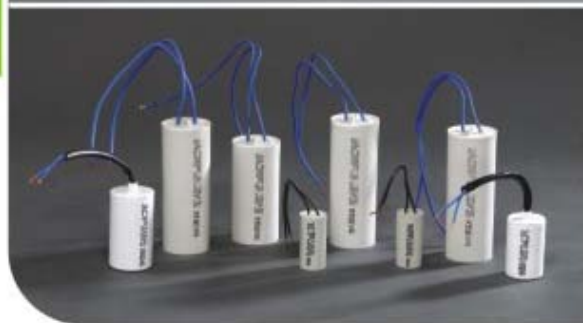
## Current Transformers

- Conformity to IEC & IS Standards
- Low reluctance, low iron losses
- High permeability cores offer reliable magnetic properties
- High quality CRGO silicon steel
- Core winding in annealed inert gas atmosphere
- Each core tested on the B-H curve
- Accuracy class of 0.2, 0.5, 1 & 3
- Moulded & Resin Cast

## Reactors

- Compliance to IEC & IS standards
- Extremely low noise levels
- Environmentally friendly resin
- Long operating life
- Dried & impregnated in vacuum
- Terminal blocks for mounting
- Absorbs harmonics & improves THD
- Avoids resonance





## MPP-SH (Normal Duty)

Product Range : Box Type 1KVAR - 50KVAR  
 Cylindrical 1KVAR - 15KVAR

Applications : IPFC Panels.  
 Fixed compensation with Induction Motors.

### SPECIFICATION

Rated voltage : 440 volts  
 Over current : 1.5 In  
 Dielectric losses : 0.2 watts per KVAR  
 Temp category : D  
 Safety devices : Overpressure Disconnecter  
 Dielectric : Imported base PP film  
 Dielectric stress level : <60 volts / micron  
 Peak transient : 200In  
 Switching life : 5000 switchings per year

Type	KVAR	Dimension in mm		
		L	B	H
MPP-SH Box type	1 - 2	130	47	175
	3 - 4	170	57	240
	5 - 8	170	57	265
	10 - 15	225	80	325
	20 & 25	227	162	325
	50	227	326	377
MPP-SH Cylindrical	1 - 4	Dia	x	Height
	5	50	x	225
	7.5 - 10	68	x	210
	12.5	85	x	260
	15	85	x	340
		90	x	340

# Power Capacitors

## MPP-HD (Heavy Duty)

Product Range : Box Type 5KVAR - 50KVAR  
 Cylindrical 5KVAR - 12.5 KVAR  
 Applications : Textile Mills, Rice Mills & Flour Mills

### SPECIFICATION

Rated voltage : 440 volts  
 Over current : 1.8 In  
 Dielectric losses : 0.2 watts per KVAR  
 Temp category : D  
 Safety devices : Overpressure Disconnecter  
 Dielectric : Imported base PP film  
 Dielectric stress level : <45 volts / mic  
 Peak transient : 250In  
 Switching life : 10000 switchings per year

Type	KVAR Rating	Dimension in mm L x B x H
MPP-HD Box Type	5 & 7.5	225 x 80 x 325
	10 & 12.5	225 x 80 x 405
	15	227 x 162 x 325
	20 & 25	227 x 162 x 425
	50	227 x 326 x 477

Type	KVAR Rating	Dia x Height
MPP-HD Cylindrical	5	85 x 265
	7.5 - 10	85 x 340
	12.5	90 x 340

## MPP - HD - XL (Heavy Duty - XtraLife)

Product Range : Box Type 5KVAR - 50KVAR  
 Applications : Steel / Sugar / Paper Industry

### SPECIFICATION

Rated voltage : 440 volts  
 Over current : 2.0 In  
 Dielectric losses : <0.2 watts per KVAR  
 Temp category : D  
 Safety devices : Overpressure Disconnecter  
 Dielectric : Imported base PP film  
 Dielectric stress level : <30 volts / mic  
 Peak transient : 300 In  
 Switching life : 12000 switchings per year

Type	KVAR Rating	Dimension in mm L x B x H
MPP-HD-XL	5	225 x 80 x 405
	7.5 - 12.5	227 x 162 x 425
	15	226 x 326 x 477
	20 & 25	226 x 326 x 477
	50	320 x 420 x 477



# Current Transformers



## Resin Cast

- Greater mechanical strength
- Shock & impact resistant
- High permeability cores
- Engraved primary & secondary terminals
- High quality insulation materials

## Moulded

- Class E Insulation
- Compact In Size
- Suitable for tropicalised environment
- DIN channel mountable
- High temperature withstand capacity

DESCRIPTION	PRIMARY CURRENT	SECONDARY CURRENT	ACCURACY CLASS	VA BURDEN
Resin Cast (BPL)	100 - 10000A	5A / 1A	0.2, 0.5, 1.0	5, 7.5, 10, 15
Moulded (BPL)	100 - 800A	5A / 1A	0.5, 1.0	5, 7.5, 10,
Wound Primary (WPL)	2.5 - 100A	5A / 1A	0.5, 1.0	5, 10
Three Phase Plug-in Type	100 - 600A	5A / 1A	0.5, 1.0	5, 10
Three Phase Acb CTs	400 - 1600A	0.57, 1, 2.88, 5A	5 P 5	5
Protection	100 - 10000A	5A / 1A	5P10, 5P15, 5P20	5, 7.5, 10, 15
Ps Class	1 - 10000A	5A / 1A	-	-
Summation	1 - 5A	5A / 1A	-	-
Interposing	5A / 1A	-	-	-



# Reactors



- Compliance to IEC & IS standards
- Environmentally friendly resin
- Long operating life
- Dried & impregnated in vacuum
- Terminal blocks for mounting
- Absorbs harmonics & improves THD
- Avoids resonance
- Low losses, Low weight
- Low noise, High Linearity
- High inrush current withstand capacity



25 KVAr Reactor



## SPECIFICATION

Rated Voltage	:	440 Volts
Rated Frequency	:	50 Hz
Ambient Temperature	:	50 deg
Insulation Class	:	H
Detuned Frequency	:	189 Hz

	25 KVAr	50 KVAr	100 KVAr
Rms Current	33A	66A	132A
Total Losses	110W	220W	400W
Total Weight	21 Kgs	35 Kgs	50 Kgs

# Our References

## Building

Ansal's Highway Plaza  
Central Plaza  
Comm. Complex, Filmcity  
DLF Vasant Kunj Mall  
D- Mall  
Eros Market Palace  
Empower City Mall  
Gold Souk  
ITC Pspo  
IBM  
Jaipuria Sunirse Green  
Make My Trip .com  
Oracle  
Shipra Suncity Project  
Times Innovative Media  
Unitech Amusement Park

## Industry

Aarti International  
Anant Spinning Mills  
Abhishek Industries  
Daurala Sugar  
Essar Steel  
Goyal Mg Gases  
Hero Honda Motors  
Moser Baer  
Ranbaxy  
Sterile Bulk  
Tata Motors

## Infrastructure

C.P.W.D.  
DHBVNL  
D.J.B  
G.E.B.  
JAYPEE Hydro  
JVNL  
M.E.S.  
R.D.S.O  
N.D.M.C.  
U.P.P.W.D.  
G.P.W.D.

## O.E.M.

Adlec  
Anand Power  
Crompton Greaves  
Guru Technologies  
L & T  
RMS Automation  
Sudhir Gensets  
Tricolite  
Oswal Pumps

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