

L.V. Capacitors

MDXL [FILM + FOIL + Paper]

The use of double sided hazy film, vacuum drawing and impregnation with non toxic non- PCB bio degradable oil under very high vacuum ensures an electrically stable Capacitor with excellent partial discharge characteristics Film + Foil + Paper (3 layer) design with high grade steel tank.

Specification:

- Non Self Healing Type, IS 13585/1994/1998

Range:

- 5 to 100 kVAr in single unit and above in Bank
- 415/440/575/690/850/950 VAC. 50 Hz.
- 1 Ph / 3 Ph, Delta Connected

Features

- Hazy all Polypropylene Film + Foil + Paper Type
- Non self healing Type
- Operated at high temperature
- Static Indoor type and oil filled, box type, (CRCA Enclosure)Mild Steel
- 100% Oil filled Non P.C.B Non Toxic Oil
- Highest inrush current withstanding capacity
- Strongly recommended to use at extreme high temperature environment.
- 99.99% Pure Aluminum Foil
- Suitable for odd Harmonics load
- Weather Proof Powder Paint coating
- Maintenance Free
- Explosion Proof
- Expected Life of Capacitors 15- 20 Years
- Losses < 0.2 /5 watts kVAr
- No drifting in kVAr value upto limited period
- No Oil Leakage and Maintenance free

Application

- Fixed & Automatic P.F. Correction with Tuned & Detuned Filters
- Indoor use filter applications
- It is recommended to use at extreme high temperature environment like Foundries & Steel Industries, Cement Industries, Textile Industries.

Note for Harmonic Loads ,525 V Capacitors with Series Reactors are recommended.



Technical Details:

MDXL Type Capacitor

Standard	Non Self healing Type ,IS 13585/1994/CPU
Capacitance tolerance	± 5 %
Out put kVAr	5 to 25 kVAr
Rated Current	6.17 Amp to 32.5 Amp
Operating Voltage	415 VAC
Rated Voltage	440 VAC (Other Voltages as request)
Frequency	50Hz
Temperature Range-Ambient temp category	-25/D
Dielectric Losses	<0.2 W/kVAr
Total Losses	<0.50W/kVAr (inclusive discharge resitors)
Maximum Over Voltage in accordance with above standards	Ucn+10%(upto 8hrs daily) Ucn+15%(upto 30mints daily), Ucn+20%(upto5mints), Ucn+30%(upto 1mint)
Maximum over current	1.5 X IN
Peak Inrush Current	250 X In
Tolerance on Capacitance	-5/+10%
Max THD in Voltage	Voltage should not exceeds above over voltage value
Max THD IN Current	Curent should not exceeds above over current value
Discharge resistance	As per IS 13585/1994/CPU
Connection	Delta
Casing	Box Type CRCA ENCLOSURE (Mild Steel)
Disconnection System	All Phase - overpressure disconnecter fuses
Dielectric	100 % oil filled Non PCB , Non toxic Oil
Voltage test between Terminals	2.15xUcn,AC,2 seconds
Voltage test between terminals to Case	3000VAC,2 seconds
Protection	IP20
Permissible relative Humidity	Max 95%
Expected Life	12-15 years
Altitude	2000 m above sea level
Impregnation	Hazy All Polypropylene film + Foil + Paper(3 Layer) Type