APP LV CAPACITORS

High Power Solution for Power Factor Correction





APP TYPE CAPACITORS

415/440/525 V 5 – 100 KVAr

The efficiency of power generation, transmission or conversion is improved when operated at near unity power-factor. The least expensive way is to install power factor correction capacitors. Power factor correction capacitors must be able to withstand high voltage transients and power line variations without breakdown. The best selection for this application is ABB's All Polypropylene type power factor correction capacitor.

APP type capacitors are durable, safe, reliable and high performance solution for power factor correction in industrial and semi-industrial applications. These capacitors are designed and engineered to deliver a long working life with low losses.

DESIGN

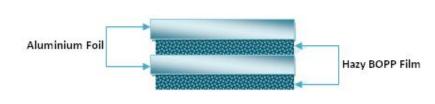




Figure 1

Dielectric: The dielectric is made up of hazy rough electrical

grade biaxial oriented low loss polypropylene Film.

Electrode: The electrode is made up of Aluminium foil of purity over 99%.

Impregnant: The dielectric fluid is non PCB and non toxic.

SALIENT FEATURES

- Reduction of voltage drop thereby improving performance of electrical equipment/Machinery. Thus voltage improvement.
- Non PCB, non toxic impregnating fluid used.
- The elements are vacuum impregnated with dielectric fluid.
- Rigid Bushings with practically no mechanical stress on termination bolts.
- Leakage proof
- Very low Watt losses at termination.



TECHNICAL SPECIFICATIONS

	100
Type of capacitor	APP
Voltage range	415/440/525 V
Rated output range	5 to 100 KVAr
Rated Frequency	50 Hz
Reference Standard	IS-13585
Connection	3Ø Delta connected
Dielectric used	Polypropylene
Type of Impregnate used	Non PCB oil
Case material	CRCA plated
Type of protection	Internal fuse
Insulation level	+/- 3kV
No of film layer	one
Capacitor loss in Watts/KVAr	< 0.5 Watts/KVAr max
including discharge resistor(Max)	
Capacitance tolerance	-5%, +10%
Shape of the container	Rectangular
Discharge resistor	Connected built-in discharge resistors are sized
	to ensure safe discharge of the capacitor to
	less than 50V in 1minute after a switch off.
Test Voltage between terminals &	3kV ac for 60 seconds
container	



APPLICATIONS

- Automobile & Battery Manufacturing plants
- Arc Welding Equipments
- Motors controlled by Variable Frequency Drives
- Paper Industries, Plastic & Rubber Industries
- Cement plants
- Steel Rolling Mills, Textile Mills
- Sugar Factories etc.,

DIMENSIONS

- Capacitors are available in 415/440/525 V in 343mm x 138mm (LXB) dimensions, H in mm will be given on case to be case basis

Contacts

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