Technical Datasheet

MPP Film Power Factor Correction Super Heavy Duty Capacitors (Cylindrical)

Item Number / Code:

Construction

- Dielectric: Metallized Polypropylene series film
- Electrode: Metallized Film
- Connection: Δ
- External Discharge device: Resistor
- Encapsulation: Jelly Oíl
- Aluminium Container
- RoHS Compliant

Terminals:

- Screw / Stud type Finger proof terminals (IP 20)

Typical Applications:

- For Industrial Power factor correction applications

Features:

- Low dissipation factor
- Conforms to IEC 60831-1+2:2014 & IS 13340:2012
- Naturally air cooled (or forced air cooling)
- Indoor mounting
- High insulation resistance
- NPCB(Non-Polychlorinated biphenyl) compliant
- No. of switching per annum Max. 15000 switching

Safety:

- Over pressure disconnector (Burst Proof)
- Self-healing properties
- Protection: IP 20 (optionally with terminal cap for IP54)

Marking / Identification Label

- Tibcon logo
- Rated voltage
- Rated Current
- Connection Δ
- Discharge Device :
- Date of Manufacture
- CE Marking

Rated Kvar
Rated Frequency
3 Phase
SH- MPP
Over pressure Disconnector ≠
Temperature Category
Serial Number

Delivery Mode

- Sequential arranged Packing

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Electrical Characteristics:

▪ Reference Standard	: IEC:60831-1+2 & IS:13340/41
▪ Rated Kvar	: 20,25 & 30 Kvar
▪ No of Phases	: 3Ø
▪ Capacitance tolerance	: -5 To + 10 %
▪ Rated voltage VR	: 690 Vac
▪ Inrush current	: Up to 400* IR
▪ Over Voltage Vmax	: VR x 1.1 (Continuos)
▪ Over Current I max	: Up to 1.3…2.0 * IR
▪ Rated Frequency FR	: 50 - 60 Hz
▪ AC test Voltage terminal to terminal	: 2.15 x VR ,2s (Routine test) : 2.15 x VR ,10s (Type test)
▪ AC test Voltage terminal to case	: 2*Un+2 KV AC , 10s
▪ Insulation Resistance R is at 20ºC,	: 3000 s
▪ Relative Humidity	: 95 %
▪ Discharge time	: < 50 V within 60 seconds.
▪ Losses (tan δ)	: 0.3 W / KVAr (without discharge resistors) : 0.45 W / KVAr (with discharge resistors)
▪ Temperature Category	: -25 / D OR - 40 / D (As per Customer specifications)
▪ Maximum Operating Temperature	: 55 °C
▪ Maximum Case Temperature	: 65°C
▪ Storage Temperature	: - 40°C to +60°C
▪ Type of Terminals	: Screw / Stud type Finger proof terminials
▪ Mounting Position	: Vertical
▪ Mean Life Expectancy	: 150,000 / h 65 °C , 180,000 / h 55 °C
▪ Max. over Voltage U max	: UN,+ 10% 8h in every 24h : UN,+ 15% 30 min in every 24h : UN,+ 20% 5 min in every 24h : UN,+ 30% 1 min in every 24h

Important note:

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Table:

Sr.No	Kvar	Voltage	Amps	Al Can Size (ØdXHt)(mm)	Flange Dia(ØD)	Total Height with Stud (mm)	Figure.
1	20.0	690	16.8	95X247	100	300	A
2	25.0	690	21.0	116X210	121	263	B
3	30.0	690	25.2	116X247	121	300	B

Capacitor Drawing:

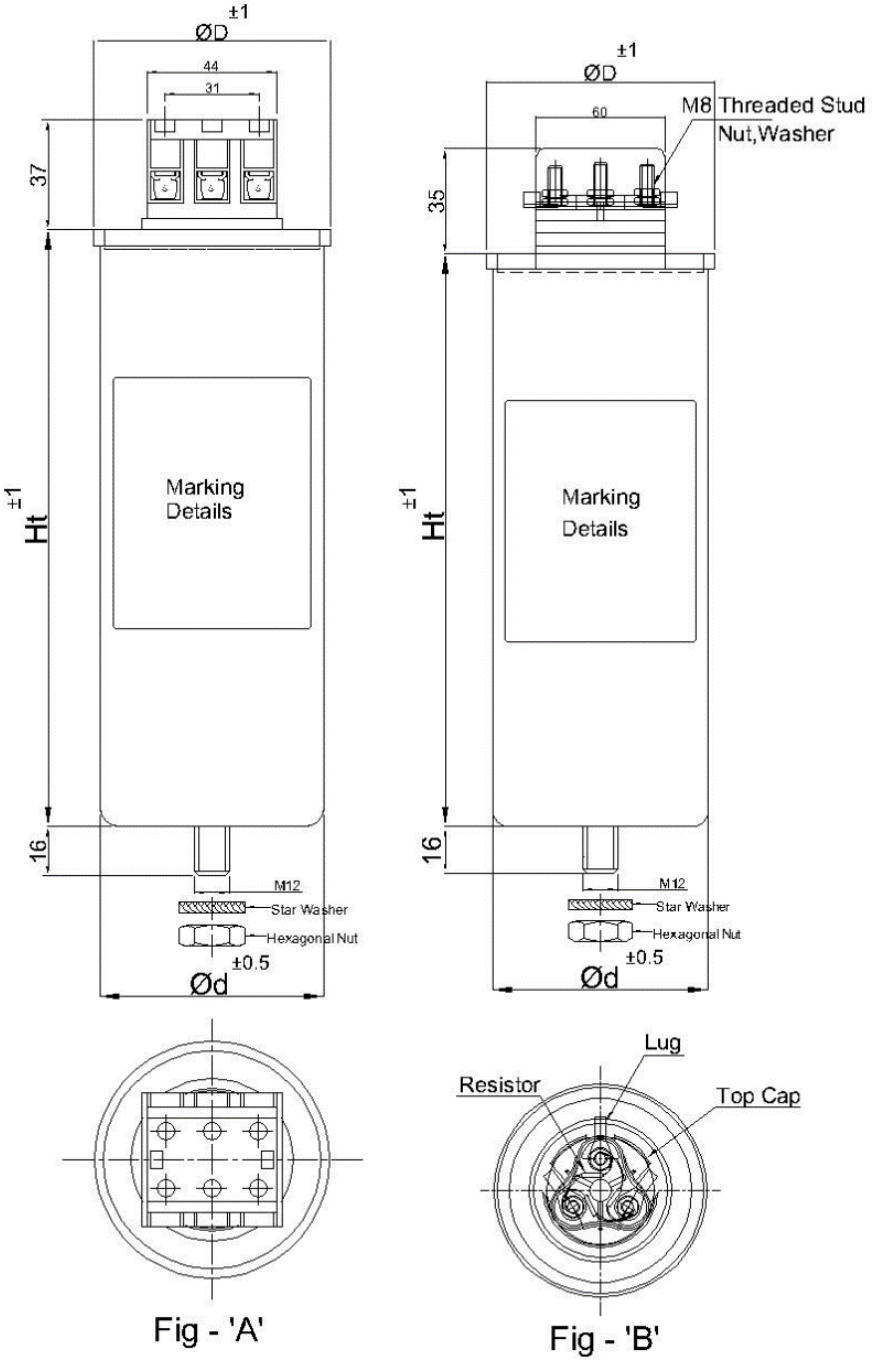


Fig - 'A'

Fig - 'B'

Marking details:

