Technical Datasheet

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

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 Kvar
Rated voltage	Rated Frequency
Rated Current	3 Phase
Connection Δ	SH- MPP
Discharge Device : 	Over pressure Disconnector ≠
Date of Manufacture	Temperature Category
CE Marking	Serial Number

Delivery Mode

Sequential arranged Packing

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Electrical Characteristics:

Reference Standard	: IEC:60831-1+2 & IS:13340/41
Rated Kvar	: 20,30 & 40 Kvar
No of Phases	: 3Ø
Capacitance tolerance	: -5 To + 10 %
Rated voltage VR	: 830 Vac
Inrush current	: Up to 400* IR
Over Voltage Vmax	: VR x 1.1 (Continuous)
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 ™)	: 0.3 W / KVAr (without dischagre 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 terminals
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

Authorised by: Design & Development Dept
Tibrewala Electronics Ltd

Date: 30.10.2023
Rev: 02

Important note:

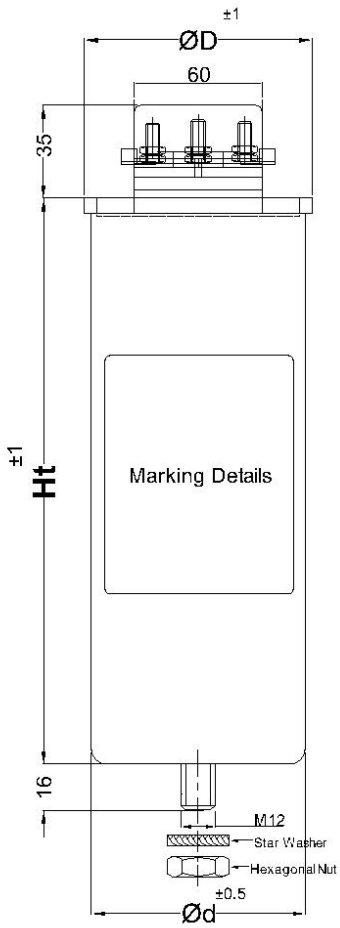
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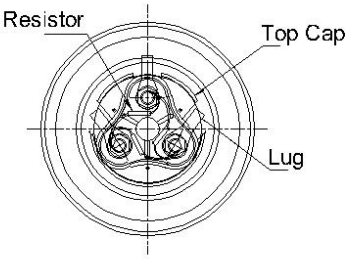
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Sr.No	Kvar	Voltage	Amps	Al Can Size(ØdxHt) (mm)	Flange Dia(ØD)	Total Height (mm)
1	20.0	830	14.0	95X247	100	300
2	30.0	830	21.0	116X247	121	300
3	40.0	830	28.0	136X247	141	300

Capacitor Drawing:





Marking Details:

