

Film Capacitors – Power Factor Correction**YZPST-3×40μF-690V-3P****Construction**

- Dielectric: Polypropylene film
- Resin filling: Non-PCB, biodegradable soft resin dry type
- Wave cutting technology.
- Cylindrical aluminium can with stud and aluminium cover
- Provided with built-in discharge resistances

Features

- Three-phase delta connected,
- Provided with discharge resistances
- Double safety system:
 - Overpressure disconnecter,
 - Self healing technology
- Naturally air cooled (or forced air cooling)
- Indoor mounting

Typical applications

- For Power Factor Correction
 - Filtering out harmonic wave
 - Improve the quality of power supply
 - Improve the power factor

Terminals

- Clip terminals

Mounting

- Threaded stud at bottom of can
(max. torque for M16 = 12 Nm)



Just for picture

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Technical data and specifications

Characteristics	
Rated capacitor Q_R	18kvar
Rated capacitance C_R	3×40μF
Tolerance	−5% ~ +5%
Connection	D (Delta)
RMS voltage V_R	690V.AC
Rated voltage V_R	975V.AC
Rated frequency f_R	50 and 60 Hz
Rated current I_R	15.0A
Surge current I_S	6.27kA

Maximum ratings	
U_{max}	1.15 U_R
I_{max}	1.8 I_R
I_S	Up to 200 • I_R (A)

Test data	
U_{TT}	2.15 U_N , during 10 s
U_{TC}	2 U_N +2000 V AC or 3000V AC , during 10 s
*tan δ (100 Hz)	≤ 2.0 x 10 ⁻³

Climatic category −40/70	
T_{min}	−40 °C
T_{max}	+70 °C
Humidity	Av. rel. < 95%
Maximum altitude	4000 m

Mean life expectancy	
t_{LD}	Up to 100 000 hours at temperature class -40/D Up to 125 000 hours at temperature class -40/C

Max. 5000 switchings per year acc. to IEC 61071: 2017

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Dimensions (ϕ D × H)	According to specification table
Impregnation	Non PCB, resin filling: soft polyurethane resin dry type
Fixing	Threaded bolt M16×25
Max. torque (Al can stud)	M16: 12 Nm
Mounting position	Only in the upright position See “Maintenance and Installation Manual” for further details. Horizontal mounting with additional head support possible

Terminals

Protection degree	IP20
Max.torque	6Nm
Terminal cross section	50mm ²
Maximum terminal current	100 A
Creepage distance (min)	≥24 mm
Clearance (min)	≥23 mm

Safety

Mechanical safety	Overpressure disconnecter
Max. short circuit current	(AFC: 10 kA according UL 810 standard)
Discharge resistor time	≤ 180 s to 75 V or less

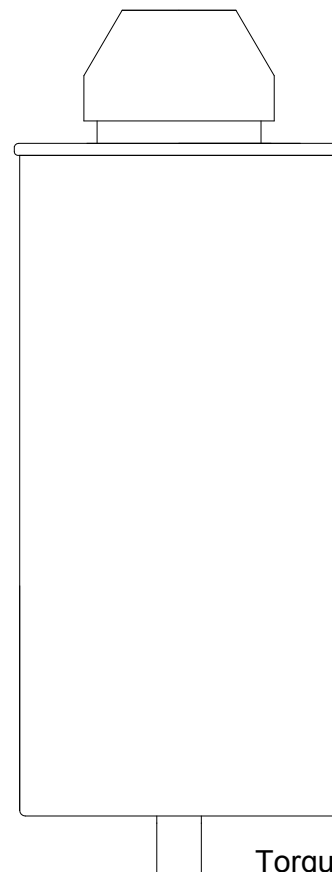
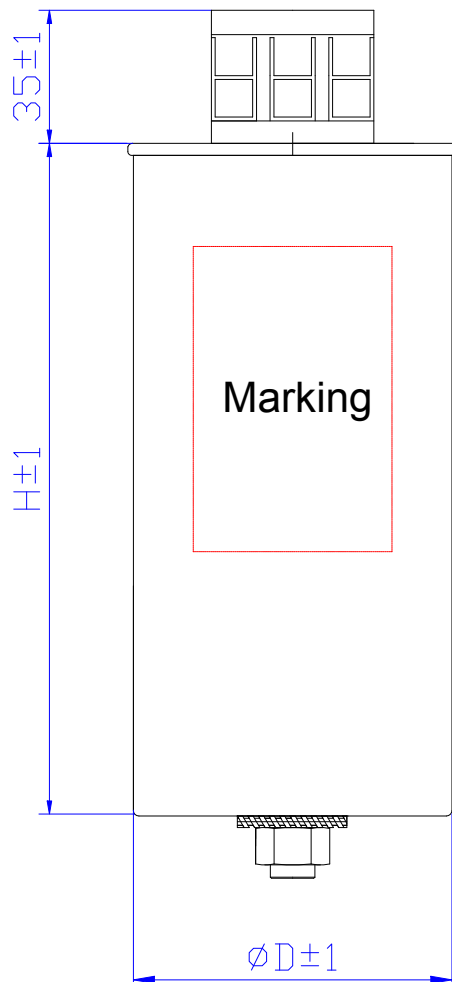
Reference standards

IEC 61071: 2017

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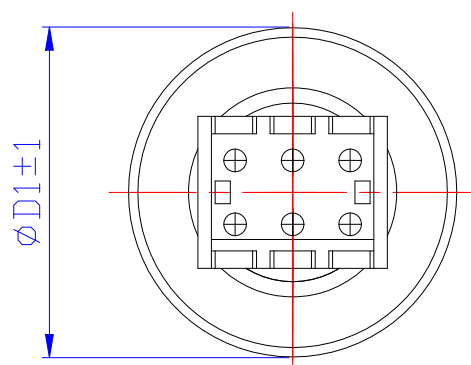
Dimension drawing



Torque : M16=12Nm

 Serrated washer

 Hex nut M16



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Specification table

Part number	50Hz		60Hz		C _R	Dimension （mm）			Bolt of the bottom	Packing unit pcs
	Output kvar	I _R A	Output kvar	I _R A	μF	ΦD	ΦD1	H		
RMS voltage 690 V AC, 50/60 Hz, delta connection										
3×40μF-690V-3P	18.00	15.0	21.55	18.0	3×40	106	109	235	M16×25	4