

TFA Series

• 105°C 5,000Hrs assured.

- Non-solvent proof.
- High ripple capability.
- Long life
- For Elevator, Industrial Inverter
- RoHS compliant.
- Halogen-free capacitors are also available.



SPECIFICATIONS

Item	Characteristics
Rated Voltage Range	350 ~ 450 V _{DC}
Operating Temperature Range	-25 ~ +105°C
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)
Leakage Current	I = 0.02CV or 5mA, whichever is smaller. Where, I: Max. Leakage current (µA) C: Nominal capacitance (µF) V: Rated voltage (V _{DC}) (at 20°C, 5 minutes)
Dissipation Factor (Tanδ)	0.15max. (at 20°C, 120Hz)
Temperature Characteristics (Capacitance change ratio)	$C(-25^{\circ}\text{C})/C(20^{\circ}\text{C}) \geq 0.7$ (at 120Hz)
Insulation Withstanding Voltage	When a voltage of 2,000V _{AC} is applied for one minute between the terminals shorted each other and the mounting clamp on the insulating sleeve covering the case, there shall not be electrical damage.
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20°C. after subjected to DC voltage with the rated ripple current is applied 5,000 hours at 105°C. Capacitance change ≤ ±20% of the initial value Tanδ ≤ 200% of the initial specified value Leakage current ≤ The initial specified value
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them at 105°C for 1,000 hours without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements. Capacitance change ≤ ±20% of the initial value Tanδ ≤ 200% of the initial specified value Leakage current ≤ The initial specified value
Others	Satisfied characteristics KS C IEC 60384-4

RATED RIPPLE CURRENT MULTIPLIERS

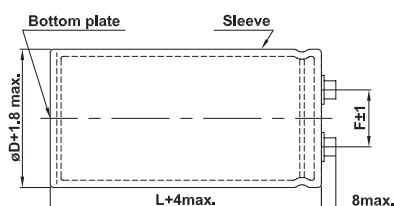
Frequency Multiplying Factor

Frequency(Hz)	120	300	1k	3k
Factor	1.0	1.1	1.3	1.4

DIMENSIONS OF TFA Series

Unit(mm)

Marking : BROWN SLEEVE, SILVER INK



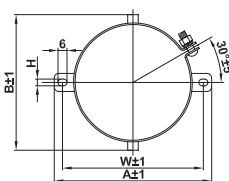
⟨Screw specifications⟩

øD = ø 63.5 ~ ø 89

• Plus hexagon-headed screw:
M5×0.8×12

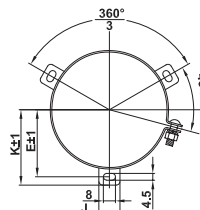
• Maximum screw tightening torque: 3.23N·m (33kg·cm)

B type mounting clamp



øD	A	B	W	H	F
63.5	90	75	80	4.5	28.0
76.5	104.5	90	93.5	4.5	31.5

C type mounting clamp



øD	E	K	J	F
63.5	38.1	43.5	14	28.0
76.5	44.5	50.0	14	31.5
89	50.8	56.5	16	31.5



LARGE SIZED ALUMINUM ELECTROLYTIC CAPACITORS

RATINGS OF TFA Series

μF	Vdc $\varnothing D$	350			400			450		
		63.5	76.5	89	63.5	76.5	89	63.5	76.5	89
2,200								63.5 × 120 11.8		
2,700					63.5 × 120 13.1			63.5 × 130 13.7	76.5 × 120 14.5	
3,300		63.5 × 120 14.4			63.5 × 130 15.2			63.5 × 160 16.5	76.5 × 130 16.9	
3,900		63.5 × 130 16.6			63.5 × 160 17.9	76.5 × 120 18.2		63.5 × 170 18.7		
4,700		63.5 × 160 19.8	76.5 × 120 19.1		63.5 × 170 20.5	76.5 × 130 20.1			76.5 × 160 21.7	
5,600		63.5 × 170 22.5	76.5 × 130 21.9			76.5 × 160 23.8			76.5 × 190 26.1	89 × 160 24.1
6,800			76.5 × 160 26.2			76.5 × 170 27.3	89 × 160 26.6			89 × 170 27.8
8,200			76.5 × 170 30.0	89 × 160 29.2			89 × 170 30.5			89 × 190 32.0
10,000				89 × 170 33.7	← Case Size $\varnothing D \times L$ (mm) ← Rated Ripple Current(Arms/105°C, 120Hz)					

Note:When long life performance is required in actual use, the rms ripple current has to be reduced.