



YUHCHANG

# Capacitors for Power Electronic

YBP

The capacitors are designed for general-purpose applications, and also for using with non-sinusoidal voltage and currents, such as resonant circuits, filtering or commutation.

Quality approval: us (UL 810 certificated)  
RoHS conformity  
Quality management: ISO 9001:2008

## Types of products:

**YBP** - ☐ ☐

Y: Cylindrical can  
B: Screw terminals  
P: Built-in safety device  
B: with mounting and grounding stud (Optional)  
R: Built-in or external discharging resistor (Optional)



## Specification and Performance:

Standards	IEC 61071
Installation	Indoor use, maximum above sea level 2000M, maximum permissible humidity 95%
Capacitance tolerance	$\pm 10\%$ , $-5\%/+10\%$ , or $\pm 5\%$
Operating temperature of case	$-25^{\circ}\text{C}$ to $+70^{\circ}\text{C}$
Dielectric	Metallized polypropylene film with self-healing technology
Dissipation factor	$< 0.1\%$
Test voltage between terminals	$U_n \times 2.15$ VDC, 10s
Test voltage between terminals and case	3000Vac, 10s
Insulation resistance (Between terminals and case)	above $2000\text{M}\Omega$
Equivalent series resistance (ESR)	$< 10\text{ m}\Omega$
Equivalent series inductance (ESL)	$< 50\text{ nH}$
Impregnated oil	Non PCB, Rapeseed oil
Safety device	Overpressure disconnecter UL 810 approval, AFC 10000A, File no. E112211
Discharge resistor (Optional)	The residual voltage drops to 50V or lower in 1 minute after capacitor being disconnected from power source.
Case	Cylindrical aluminum can
Terminals	Screw terminal M6 of tinned brass, maximum torque 3Nm. With terminal spacers for rated voltage above 660Vac.
Mounting and grounding	M12 stud with washer and nut on bottom of aluminum can. Maximum torque 12Nm
Cooling method	Naturally air-cooled or force air cooling



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# Power Electronic Capacitors

Rated Voltage		$\mu\text{F}$	$I_{\text{max}}$ A @60Hz	Stud	Case Size		Weight (kg)	Figures
$U_{\text{Nac}}$	$U_{\text{rms}}$				D	H		
250Vac	250Vac	175	18	M12x12	60	140	0.46	Fig. A
250Vac	250Vac	250	24	M12x12	66	160	0.60	
275Vac	275Vac	150	18	M12x12	60	140	0.45	
300Vac	300Vac	100	16	M12x12	60	140	0.46	
300Vac	300Vac	200	24	M12x12	66	140	0.53	
1000Vdc	640Vac	200	48	M12x16	96	165	1.28	Fig. B
1200Vac	850Vac	10	16	M12x12	60	100	0.42	
1200Vac	850Vac	30	16	M12x12	66	160	0.65	
1200Vac	850Vac	47	24	M12x16	89	165	1.17	

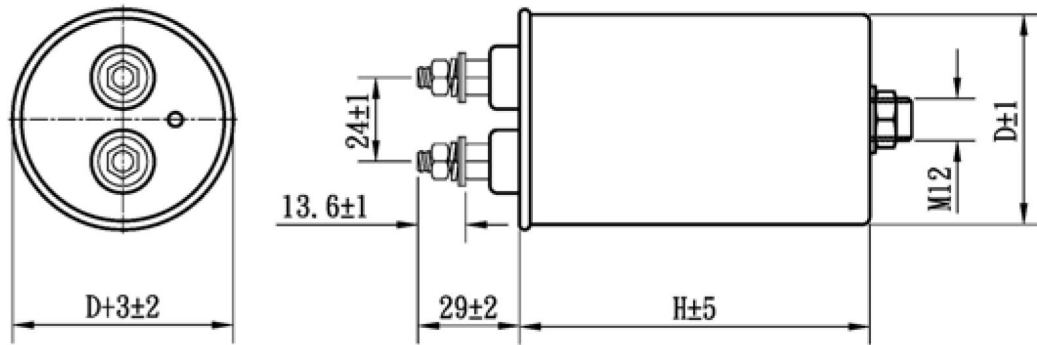


Fig. A

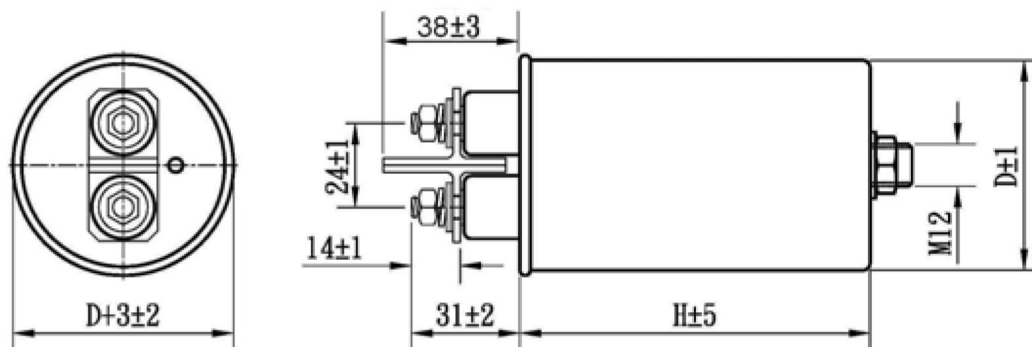
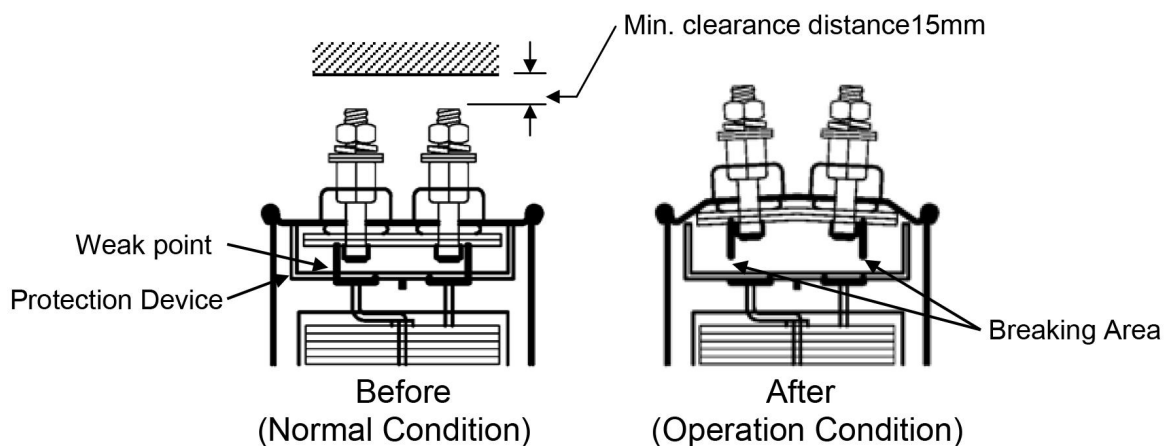


Fig. B ( $U_{\text{rms}} > 660\text{Vac}$ , with terminal spacers)

## Protection Device Operating

It senses the build-up of pressure within the capacitor and interrupts the internal connections cutting the capacitor out of the circuit before rupture can occur.

### (1) Without terminal spacers



### (2) With terminal spacers

