

HIGH DENSITY DC FILM CAPACITORS



CT27 Series, Capacitors for DC Link

Features

- Used in DC Link circuits, can replace electrolytic capacitor
- Low ESR, High ripple current handing capabilities
- Self-healing property, Long life time
- Filled with resin, dry type, Non-inductive type
- Aluminium case, RoHS compliance

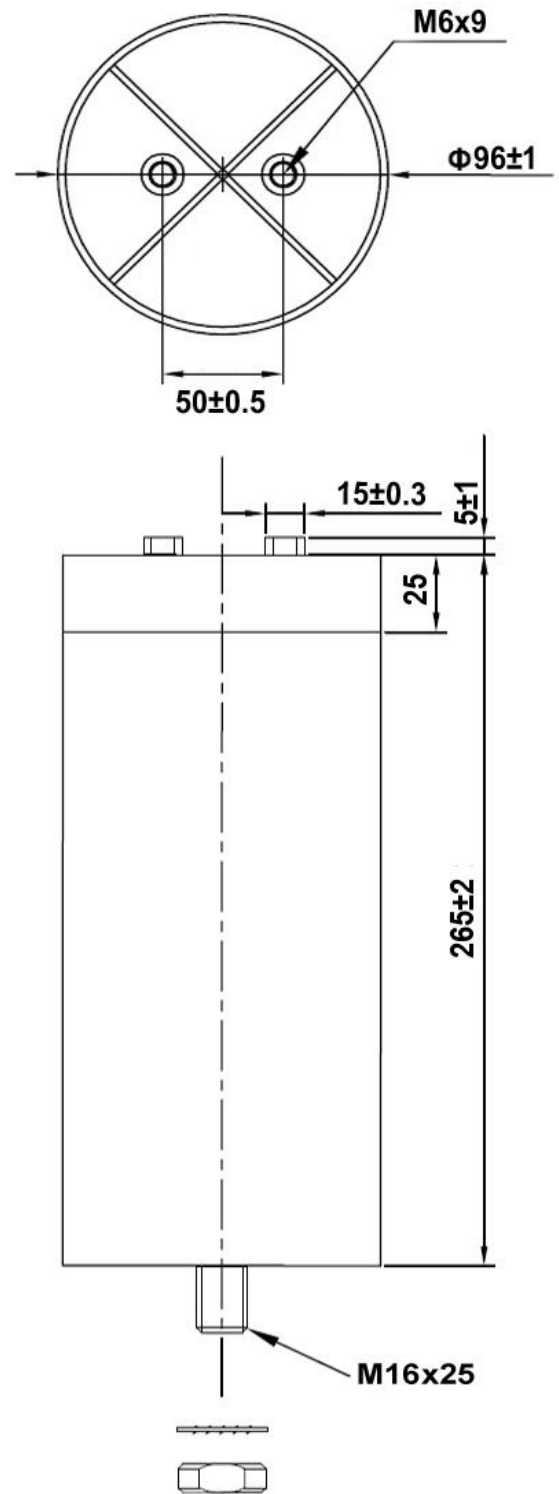
Applications

- Uninterruptible power supplies
- Power converters
- High voltage inverters
- Wind power inverters, Solar power inverters
- DC power supply for induction heating

Electrical characteristics

- Capacitance(C_n): 1075 μ F
- Cap tolerance(tol): $\pm 5\%$
- Rated voltage(U_n): 900VDC
- Max. surge voltage: $U_s=1350$ VDC ($t<100$ ms)
- Test voltage between terminals(U_{ff}): 1350VDC ($60s, t<100V/S$)
- Test voltage between terminals to case(U_{tc}): 3500VAC/60S/50Hz
- Rated current(I_{rms}): 38A
- System Switch Frequency: 40kHz
- Equivalent inductance(ESL): <50 nH
- Dissipation factor: <0.0015 (100kHz)
- Equivalent resistance(ESR): <1.2 m Ω
- Insulation resistance: $R_s.C>5000$ S
- Operating temperature: $-40^{\circ}C \sim 85^{\circ}C$
- Storage temperature: $-40^{\circ}C \sim 85^{\circ}C$
- Reference service life: 100,000h
- Failure rate: <30 fit
- Fire resistance: UL94-V0

Dimensions



Ordering information

Part Number	U_n	U_{ff}	U_{tc}	C_n		I_{rms}	ESL	ESR	D x L
	VDC	VDC	VAC	μ F	Tol	(A)	(nH)	(m Ω)	(mm)
AXCT271075J901GB	900	1350	3500	1075	$\pm 5\%$	38	50	1.2	96 x 265

Custom Products are available on request