

MHES Low Voltage Power Capacitor AccrCAP Series



LOW VOLTAGE POWER CAPACITORS

AccrCAP Series



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AccrCAP Capacitors are based on a low loss dielectric of the displaced polypropylene films for winding an element. A thin mixture of zinc and aluminum is metalized on one side of the PP film under a vacuum condition, then the two displaced PP films are wound together for a formation of the cylindrical winding. The front surface of the winding elements is joined by means of a metal spray process, and the terminal leads can be soldered onto the sprayed metal surface.

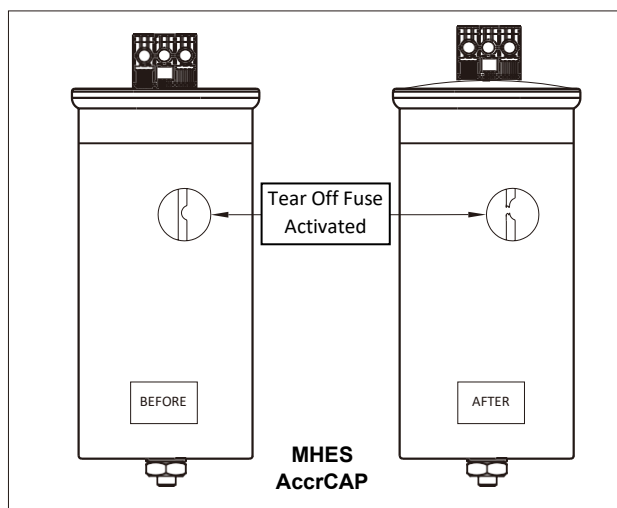
TEMPERATURE CATEGORY

	AMBIENT TEMPERATURE		
	MAXIMUM	MAXIMUM AVERAGE DURATION	
		24h	1 YEAR
A	40°C	30°C	20°C
B	45°C	35°C	25°C
C	50°C	40°C	30°C
D	55°C	45°C	35°C
E	60°C	50°C	40°C
F	65°C	55°C	45°C
G	70°C	60°C	50°C

OVERPRESSURE TEAR-OFF FUSE

Due to abnormal electrical features or thermal overload, the built-in protective tear-off fuse starts to be functioned by a formation of overpressure inside the capacitor and causes the expansion of the upper limited indent of the capacitor. The capacitor causes the tear-off action for disconnection of the break point on the internal fuse after the expansion lasts over certain limits.

TORN-OFF CONDITION

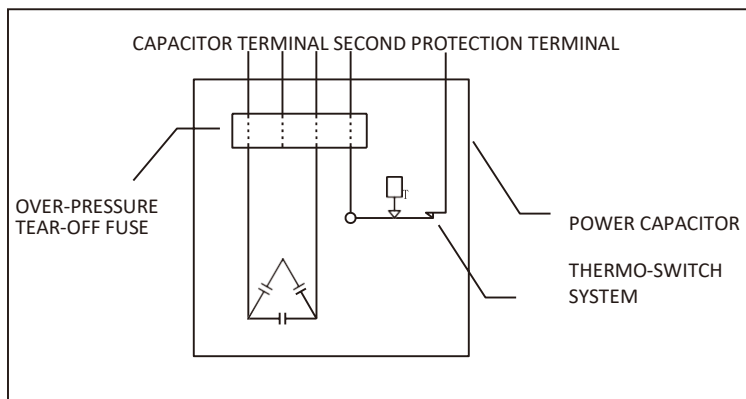


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DUAL PROTECTION

The patents for the unique innovation and technique in the world have been obtained, the inner protection of the capacitor utilizes not only the tear-off fuse but also a high accurate thermo-switch for a prompt signal to disconnect off the switched-in capacitors. This innovative technique prevents the inner tear-off fuse from being disconnected off the break points on fuse in time, and most importantly, the extra second function of the over temperature sensing is integrated for full protection.



DISCHARGE

AccrCAP Capacitors provide with the discharge resistors. The discharge resistors are connected to the capacitor, the discharge resistors are required for discharging each unit within 3 min to 75V or less from initial nominal peak voltage, which it shall comply with IEC 60831-1, IEC 60831-2.

AccrCAP Capacitors can be discharged to 50V or less within 1 min in conformity with the UL 810 standard.

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FEATURES	APPLICATIONS
<ul style="list-style-type: none"> • Self-healing technology • Aluminium case • Dual safety protection elements • Excellent heat dissipation • Resin & quartz sand filled type 	<ul style="list-style-type: none"> • Improve PF for the true power energy • Fixed or centralized compensation • Minimizing the harmonics • Advance the power quality

TECHNICAL DATA	
Standards	IEC 60831-1, -2: 2014, UL 810-201
Overvoltage	Ucn + 10% (Up to 8 h daily) Ucn + 15% (Up to 30 min daily) Ucn + 20% (Up to 5 min) Ucn + 30% (Up to 1 min)
Overcurrent	1.3 x In 1.5 x In with 10% overvoltage, 15% over capacitance and harmonics included for continuous operation
Tolerance	-5% to +10%
Test voltage, terminal to terminal	2.15 x Un
Test voltage, terminal to casing	3.6kVac, 2sec
Inrush current	300 times of the rated current In
Losses	≤0.25 to 0.75W/kVAR without discharge resistor
IP protection	IP 20
Ambient temperature category	-40/D (max 55°C)
Permissible relative humidity	≤90% RH
Mounting position	Vertical and horizontal
Earth mounting	M12 x 16 / M16 x 25 threaded at the bottom of the casing
Safety requirements	Three phase capacitor: Two phases overpressure mechanism Single phase capacitor: One phase overpressure mechanism
Casing	Cylindrical aluminum can
Dielectric	MKP technology, polypropylene film, self-healing
Filling agent	Resin and Quartz Sand
Terminals/earth	IP20, terminal block, torque ≤6.0 Nm; Earth, M12 x 16, ≤torque 12.0Nm

3 - PHASE CAPACITORS MODELS

RATED VOLTAGE 415V, 50Hz, DELTA CONNECTION, UL/ULC					
TYPE	V	OUTPUT kVAR	CAP. μ F	CURRENT A	DIMENSIONS $\phi \times H$ mm
Accr415.3.15	415	15	3 x 92.6	20.9	ϕ 106x240-M12*16
Accr415.3.20	415	20	3 x 123.3	27.8	ϕ 106x240-M12*16
Accr415.3.25	415	25	3 x 154.1	34.8	ϕ 116x285-M16*25

RATED VOLTAGE 440V, 50Hz, DELTA CONNECTION, UL/ULC					
TYPE	V	OUTPUT kVAR	CAP. μ F	CURRENT A	DIMENSIONS $\phi \times H$ mm
Accr440.3.05	440	5	3 x 27.4	6.6	Φ 76x240-M12*16
Accr440.3.10	440	10	3 x 54.8	13.1	Φ 76x240-M12*16
Accr440.3.15	440	15	3 x 82.2	19.7	Φ 96x240-M12*16
Accr440.3.20	440	20	3 x 109.6	26.2	Φ 106x240-M12*16
Accr440.3.25	440	25	3 x 137.0	32.8	ϕ 116x240-M12*16
Accr440.3.30	440	30	3 x 164.4	39.4	ϕ 116x285-M12*16

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3 - PHASE CAPACITORS MODELS

RATED VOLTAGE 525V, 50Hz, DELTA CONNECTION, UL/ULC					
TYPE	V	OUTPUT kVAR	CAP. μ F	CURRENT A	DIMENSIONS $\phi \times H$ mm
Accr525.3.05	525	5	3 x 19.2	5.5	Φ 76x175-M12*16
Accr525.3.10	525	10	3 x 38.5	11.0	ϕ 76x240-M12*16
Accr525.3.15	525	15	3 x 57.7	16.5	Φ 96x240-M12*16
Accr525.3.20	525	20	3 x 77.0	22.0	Φ 106x240-M12*16
Accr525.3.25	525	25	3 x 96.2	27.5	ϕ 116x240-M12*16
Accr525.3.30	525	30	3 x 115.5	33.0	ϕ 116x285-M12*16

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