DCH 85 C series

Very High Density, Low Inductance DC-Link Capacitors
Cylindrical Aluminum Case

Thanks to the exclusive Ducati Energia High Crystallinity Film DCH 85 C DC-link Capacitors provide leading Capacity Density without any de-rating or limitation, respective to standard makes.

The very high capacity density allows substantial cost reductions due to the reduction of capacitor size and/or number, as well as particularly low inductance values.
The exclusive Ducati Energia metallization profiles guarantee high capacity stability and a controlled, open-circuit condition at the end of DCH 85 C operational life, while maximizing the current capability.

Main characteristics:

- Self-Healing Metallized Polypropylene Film
- UL-Approved Overpressure Safety Device
- Aluminum Case
- DRY Resin filling

Main applications:

- DC-Link
- Energy Storage / Pulse Generation

General Characteristics

DC Voltage range	700÷2100 V
Maximum ripple voltage	1150 V
Maximum ripple current	100 A
Capacitance range	Up to 5600 µF
Capacitance tolerance	standard: ±10% on request ±5%
Series resistance (RS)	< 4.5 mΩ
Maximum Voltage rate of rise (dV/dT)	≤ 40 V/µs
Terminals	M6 internal threads M8 screw types bolts
Voltage test	U_{tc}= 3.5 kVac @50 Hz 10 s U_{tt}= 1.5 x UnDC 10 s
Working temperature ($\theta_{MIN} - \theta_{MAX}$)	–25 / +85 °C
Storage temperature	–25 / +85 °C
Filling	Dry polyurethane resin
New PP Dielectric	Self healing. PPMdh film
Cylindrical case	Aluminum
Failure quota	50/10 E9
Life expectancy	100.000 h(*)
Maximum altitude	2000 m a.s.l.
Reference standard	IEC 1071-1/2 - IEC 1881 - UL 810
Internal thread terminals	Max 3 Nm
M8 screw terminals	Max 6 Nm
M12 fixing bolt	Max 12 Nm
UL - CSA approved (c UL us)	File n. E192559
In according to fire protection standard	EN 45545-2 (only for 85 and 100mm diameters)

(*) For details please refer to page 75.

Safety system: These capacitors are designed with a particular type of polypropylene metalized film (PPMd film) that assures an open circuit at the end of life, if the operation is within the specification.

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Capacitance Cn [µF]	Diameter Ø [mm]	Height H [mm]	Max. RMS Current I_{MAX} [A]	Repet Peak Current Ip [A]	Surge Current Is [kA]	Series Resistance Rs [mΩ]	Thermal Resistance R_{THC} [°C/W]	Series Inductance Lesr [nH]	Weight [kg]	Pcs./box - Box type	Part n. 416.85.V.
Un_{DC}= 700 V Ur= 320 V Up= 1050 V Us= 1470V											
480	75	105	25	1500	5.0	3.8	5.4	< 45	0.6	12 - A	009.x
750	75	140	30	2200	6.5	3.6	4.8	< 50	0.8	6 - B	019.x
840	75	155	35	2200	7.0	3.0	4.6	< 60	0.9	6 - B	029.x
980	85	140	35	3000	7.5	2.9	4.2	< 50	1.0	6 - B	039.x
1050	90	140	40	3000	8.0	2.8	4.0	< 50	1.1	6 - B	045.x
1100	85	155	40	3000	9.0	2.7	3.6	< 60	1.1	6 - B	049.x
1800	100	185	65	3700	11.0	1.6	2.6	< 60	1.8	6 - C	055.x
2500	116	185	70	4000	12.0	1.4	2.3	< 60	2.3	4 - G	059.x
2700	100	255	70	4200	13.0	1.2	2.3	< 75	2.4	6 - D	069.x
3700	116	255	75	5800	15.0	1.0	2.1	< 75	3.2	4 - G	079.x
4300	116	285	80	6700	18.0	0.8	1.7	< 80	3.6	4 - G	089.x
5600	116	373	100	10000	22.0	0.7	1.6	< 90	4.8	4 - G	095.x
Un_{DC}= 900 V Ur= 550 V Up= 1350 V Us= 1900 V											
340	75	105	28	2200	6.6	3.9	5.4	< 45	0.6	12 - A	109.x
500	75	140	30	2800	8.4	3.7	4.8	< 50	0.8	6 - B	119.x
600	75	155	35	3200	9.6	3.2	4.6	< 60	0.9	6 - B	129.x
680	85	140	35	3300	10.0	3.1	4.2	< 50	1.0	6 - B	135.x
780	90	140	40	3500	10.0	3.0	4.0	< 50	1.1	6 - B	139.x
800	85	155	40	3800	11.5	2.9	3.6	< 60	1.1	6 - B	149.x
1300	100	185	65	5400	16.0	1.8	2.6	< 60	1.8	6 - C	155.x
1850	116	185	70	6600	20.0	1.7	2.3	< 60	2.3	4 - G	159.x
2000	100	255	70	7000	21.0	1.6	2.3	< 75	2.4	6 - D	169.x
2700	116	255	75	7100	21.0	1.3	2.1	< 75	3.2	4 - G	179.x
3200	116	285	85	8200	24.5	1.2	1.7	< 80	3.5	4 - G	189.x
4500	116	373	100	10000	28.0	1.0	1.6	< 90	4.6	4 - G	195.x
Un_{DC}= 1100 V Ur= 700 V Up= 1650 V Us= 2300 V											
260	75	105	30	2200	6.7	4.1	5.4	< 45	0.7	12 - A	219.x
400	75	140	35	2400	7.1	3.8	4.8	< 50	0.8	6 - B	239.x
520	85	140	35	3400	10.3	3.6	4.2	< 50	1.0	6 - B	249.x
600	90	140	40	3600	10.3	3.5	4.0	< 50	1.1	6 - B	259.x
680	90	155	40	3900	11.7	3.5	3.6	< 60	1.3	6 - B	269.x
1000	100	185	65	5300	15.8	2.2	2.6	< 70	1.8	6 - C	279.x
1400	116	185	70	7300	21.8	2.0	2.3	< 70	2.3	4 - G	285.x
1500	100	255	70	7800	23.3	1.9	2.3	< 75	2.4	6 - D	289.x
1600	100	285	75	8100	24.3	1.8	2.2	< 80	2.6	6 - E	291.x
2100	116	255	75	9900	29.7	1.4	2.1	< 75	3.2	4 - G	293.x
2300	100	373	100	10500	31.7	1.2	1.8	< 90	3.5	6 - F	295.x
2400	116	285	85	10000	30.0	1.5	1.7	< 80	3.6	4 - G	297.x
3.200	116	373	100	11550	30.0	1.1	1.6	< 90	4.7	4 - H	299.x

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Cylindrical Aluminum Case

Capacitance Cn [µF]	Diameter Ø [mm]	Height H [mm]	Max. RMS Current I_{MAX} [A]	Repet Peak Current Ip [A]	Surge Current Is [kA]	Series Resistance Rs [mΩ]	Thermal Resistance R_{THC} [°C/W]	Series Inductance Lesr [nH]	Weight [kg]	Pcs./box - Box type	Part n. 416.85.V.
Un_{DC}= 1350 V Ur= 850 V Up= 2000 V Us= 2800V											
170	75	105	30	2160	6.5	4.2	5.4	< 45	0.6	12 - A	319.x
250	75	140	35	3240	9.7	3.9	4.8	< 50	0.8	6 - B	329.x
340	85	140	35	3960	11.9	3.7	4.2	< 50	1.0	6 - B	339.x
380	85	155	40	4200	12.6	3.6	3.6	< 60	1.1	6 - B	350.x
500	90	185	65	5200	16.0	3.1	2.8	< 70	1.5	6 - C	355.x
640	100	185	65	5850	17.6	2.3	2.6	< 70	1.8	6 - C	360.x
880	116	185	70	8100	24.3	2.1	2.3	< 70	2.4	4 - G	365.x
960	100	255	70	8500	25.5	2.0	2.3	< 75	2.4	6 - D	370.x
1100	100	285	75	9200	27.6	1.9	2.2	< 80	2.6	6 - E	380.x
1350	116	255	75	11900	30.0	1.7	2.1	< 75	3.2	4 - G	385.x
1450	100	373	100	13500	32.0	1.3	1.8	< 90	3.5	6 - F	389.x
1550	116	285	85	12800	32.0	1.7	1.7	< 80	3.5	4 - G	393.x
2000	116	373	100	14400	32.0	1.3	1.6	< 90	4.4	4 - H	398.x
Un_{DC}= 1600 V Ur= 990 V Up= 2400 V Us= 3100 V											
120	75	105	30	2160	6.5	4.3	5.4	< 45	0.6	12 - A	419.x
180	75	140	35	3240	9.7	4.0	4.8	< 50	0.8	6 - B	420.x
230	85	140	35	4000	12.0	3.9	4.2	< 50	1.0	6 - B	430.x
260	85	155	40	4200	12.0	3.8	4.0	< 50	1.2	6 - B	435.x
350	90	185	40	4480	13.5	3.7	3.6	< 60	1.5	6 - B	440.x
450	100	185	65	7200	21.6	2.3	2.6	< 70	1.8	6 - C	450.x
530	90	255	70	8500	25.0	2.2	2.4	< 70	2.3	6 - D	453.x
620	116	185	70	9750	29.5	2.2	2.3	< 70	2.4	4 - G	455.x
680	100	255	70	9800	30.0	2.1	2.3	< 75	2.5	6 - D	460.x
780	100	285	75	11200	32.0	2.0	2.2	< 80	2.7	6 - E	470.x
930	116	255	75	12740	32.0	1.8	2.1	< 75	3.2	4 - G	475.x
1000	100	373	100	12600	32.0	1.3	1.8	< 90	3.5	6 - F	485.x
1100	116	285	85	13800	32.0	1.8	1.7	< 80	3.6	4 - G	489.x
1400	116	373	100	14500	32.0	1.4	1.6	< 90	4.7	4 - H	495.x

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Capacitance Cn [µF]	Diameter Ø [mm]	Height H [mm]	Max. RMS Current I_{MAX} [A]	Repet Peak Current Ip [A]	Surge Current Is [kA]	Series Resistance Rs [mΩ]	Thermal Resistance R_{THC} [°C/W]	Series Inductance Lesr [nH]	Weight [kg]	Pcs./box - Box type	Part n. 416.85.V.
Un_{DC}= 1900 V Ur= 1150 V Up= 2700 V Us= 3100 V											
85	75	105	30	2250	6.5	4.4	5.4	< 45	0.6	12 - A	519.x
130	75	140	35	2940	9.7	4.1	4.8	< 50	0.8	6 - B	520.x
170	85	140	35	3600	12.0	4.0	4.2	< 50	1.0	6 - B	530.x
200	85	155	40	4200	13.5	3.8	3.6	< 60	1.1	6 - B	540.x
230	90	155	45	5000	15.0	3.4	3.3	< 60	1.2	6 - B	545.x
330	100	185	65	7000	21.6	2.3	2.6	< 70	1.9	6 - C	550.x
380	90	255	70	7500	25.0	2.2	2.4	< 70	2.1	6 - D	557.x
450	116	185	70	8460	29.5	2.3	2.3	< 70	2.4	4 - G	555.x
500	100	255	70	9000	30.0	2.2	2.3	< 75	2.4	6 - D	560.x
570	100	285	75	9600	32.0	2.0	2.2	< 80	2.6	6 - E	570.x
680	116	255	75	11200	32.0	1.9	2.1	< 75	3.2	4 - G	575.x
740	100	373	100	12000	32.0	1.4	1.8	< 90	3.3	6 - F	580.x
780	116	285	85	13120	32.0	1.9	1.7	< 80	3.6	4 - G	585.x
1030	116	373	100	14700	32.0	1.4	1.6	< 90	4.6	4 - H	598.x
Un_{DC}= 2100 V Ur= 1150 V Up= 2700 V Us= 3100 V											
60	75	105	30	2100	6.5	4.5	5.4	< 45	0.6	12 - A	610.x
90	75	140	35	3000	9.7	4.2	4.8	< 50	0.8	6 - B	620.x
125	85	140	35	3375	12.0	4.1	4.2	< 50	1.0	6 - B	630.x
145	85	155	40	3450	12.0	3.9	3.6	< 60	1.1	6 - B	640.x
160	90	155	45	3900	13.5	3.4	3.3	< 60	1.3	6 - B	645.x
210	100	185	65	4800	15.0	2.3	2.6	< 70	1.5	6 - C	650.x
290	90	255	70	6500	21.6	2.1	2.4	< 70	2.2	6 - D	653.x
320	116	185	70	6800	25.0	2.2	2.3	< 70	2.4	4 - G	655.x
360	100	255	70	7400	29.5	2.1	2.3	< 75	2.3	6 - D	660.x
420	100	285	75	9600	30.0	2.0	2.2	< 80	2.7	6 - E	670.x
510	116	255	75	10750	32.0	2.0	2.1	< 75	3.3	4 - G	675.x
540	100	373	100	11500	32.0	1.4	1.8	< 90	3.5	6 - F	680.x
580	116	285	85	12500	32.0	1.9	1.7	< 80	3.6	4 - G	685.x
760	116	373	100	14400	32.0	1.5	1.6	< 90	4.7	4 - H	698.x

NOTES:
(**Cn**) Tollerance standard value: ±10%. Other tollerance values on request.
(**Cn**) - (**Un**) Capacitance and rated voltage standard values, other values on request.
(**Ur**) Maximum peak to peak alternating voltage component on the DC working voltage.
(**Rs**) Releted at 1 kHz.
(R_{THC}) Thermal registance CASE TO AMBIENT in natural cooling environment.
(**Imax**) Maximum RMS current, refered to an ambient temperature of 50 °C (**natural cooling**) and working frequency of 1 KHz.
(**x code**) According to the terminal type: x=0--> A SOLUTION (**internal thread M6**) / x=1 B SOLUTION (**M8 screw type bolts**).

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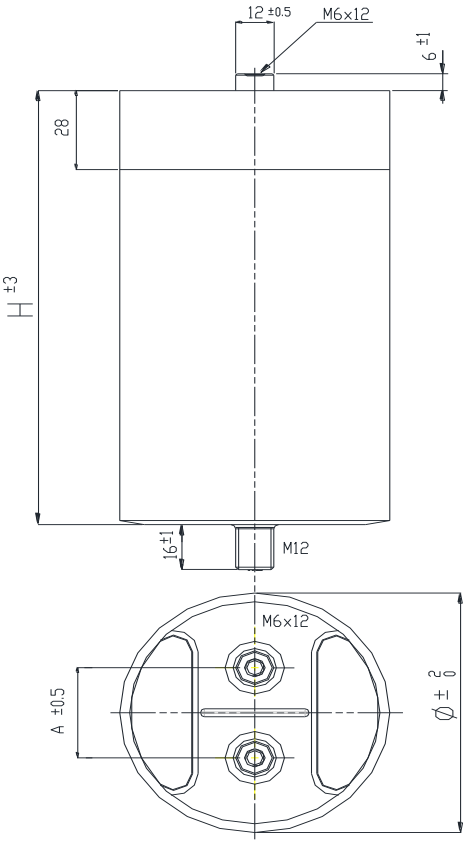
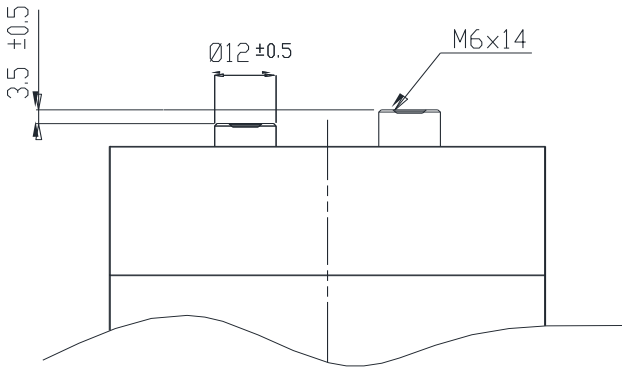
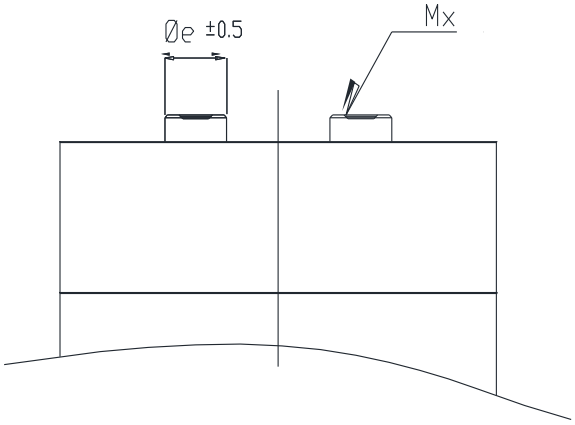
Mechanical Standard configuration:



Terminal variations on request:



Two different terminals height for special BUS BAR coupling.



For Capcictor diameter Ø 116 and Ø 136 mm are available these different terminals type:
- Øe : 12 - 14 - 16 mm
- Mx : M6 - M8

Diameter Ø	A spacing	Type of terminals	Insulating spacing	
(mm)	(mm)		Surface (mm)	Air (mm)
75, 85, 100	32	M6 female / M8 male	36	20
90	45 (*)	M6 female / M8 male	49	33
116, 136	50 (**)	M6 - M8 female / M8 male	54	38

(*) Available also in the dimensions: 32 - 50 mm
(**) Available also in the dimensions: 32 - 45 mm

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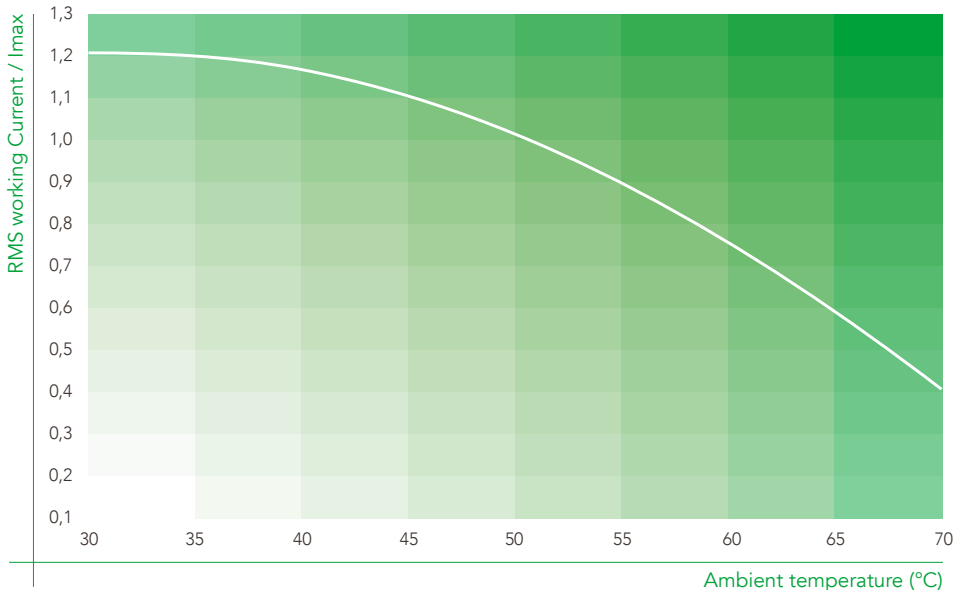
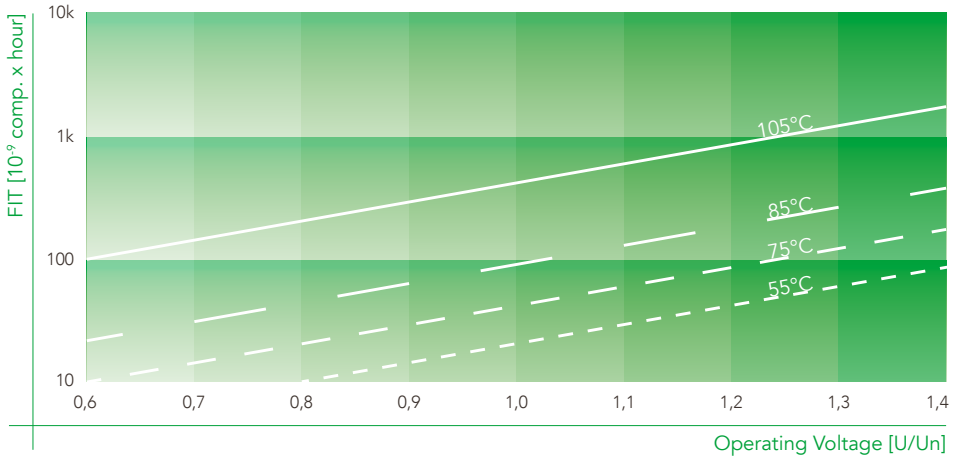
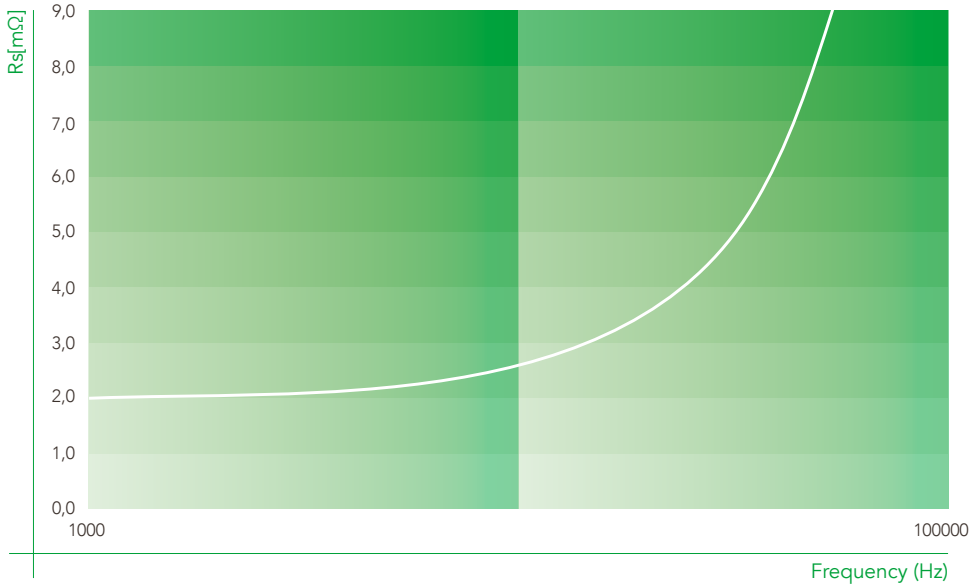
RMS working current vs Ambient temperature



FIT vs Hot Spot Temperature



DCH 85C Un=900V



Typical DCH85C Series Resistance at ambient temperature for a specific model. For the characterization of a different model, please contact R&D department.

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DC 85 C series

High Density, Low Inductance DC-Link Capacitors
Cylindrical Aluminium Case

Powered by the tried and proven Ducati Energia PPMh technology DC 85 C is a competitive and reliable solution to all common DC-Link applications. When coupled with the exclusive Ducati Energia High Crystallinity Film the DC 85 C construction provides superior temperature performance with 100khrs life @ 90°C HotSpot or extended life of 400khrs @70°C HotSpot.

The exclusive Ducati Energia metallization profiles guarantee high capacity stability and a controlled, open-circuit condition at the end of DC 85 C operational life, while maximizing the current capability.

Main characteristics:

- High Capacity Density
- Self-Healing Metallized Polypropylene Film
- UL-Approved Overpressure Safety Device
- Aluminium Case
- DRY Resin filling
- Low ESL

Main applications:

- DC-Link
- Energy Storage / Pulse Generation

DC 85 C Versions with Ducati Energia High Crystallinity Film:

- Standard Life expectancy 100.000hrs at 90°C HotSpot
- Extended Life expectancy 400.000hrs at 70°C HotSpot

General Characteristics

DC Voltage range	550÷1800 V
Maximum ripple voltage	1150 V
Maximum ripple current	100 A
Capacitance range	Up to 4450 µF
Capacitance tolerance	standard: +0%/-15%; others on request
Series resistance (RS)	< 4.5 mΩ
Maximum Voltage rate of rise (dV/dT)	≤ 40 V/µs
Terminals	M6 internal threads M8 screw types bolts
Voltage test	U_{tc}= 3.5 kVac @50 Hz 10 s U_{tt}= 1.5 x Un_{DC} 10 s
Working temperature (θ_{MIN} – θ_{MAX})	–25 / +85 °C
Storage temperature	–25 / +85 °C
Filling	Dry polyurethane resin
Dielectric	Self healing PPMd film
Cylindrical case	Aluminum
Failure quota	50 /10E9
Life expectancy	100.000 h(*)
Maximum altitude	2000 m a.s.l.
Reference standard	IEC 1071-1/2 - IEC 1881 - UL 810
Internal thread terminals	Max 5 Nm
M8 screw terminals	Max 6 Nm
M12 fixing bolt	Max 12 Nm
UL - CSA approved (c UL us)	File n. E192559
In according to fire protection standard	EN 45545-2 (only for 85 and 100mm diameters)

Safety system: These capacitors are designed with a particular type of polypropylene metalized film (PPMd film) that assures an open circuit at the end of life, if the operation is within the specification.

(*) For details please refer to page 75.

For Mechanical drawings, check page 30.

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Capacitance Cn [µF]	Diameter Ø [mm]	Height H [mm]	Max. RMS Current I_{MAX} [A]	Repet Peak Current Ip [A]	Surge Current Is [kA]	Series Resistance Rs [mΩ]	Thermal Resistance R_{THC} [°C/W]	Series Inductance Lesr [nH]	Weight [kg]	Pcs./box - Box type	Part n. 416.85
Un [V]= 550 V_{DC} Ur [V]= 230 V Up [V]= 850 V Us [V]= 1160 V											
500	75	105	25	1500	5.0	3.8	5.4	< 45	0.6	12 - A	L09.x
760	75	140	30	2200	6.5	3.6	4.8	< 50	0.8	6 - B	L19.x
870	75	155	35	2200	7.0	3.0	4.6	< 60	0.9	6 - B	L29.x
1000	85	140	35	3000	7.5	2.9	4.2	< 50	1.0	6 - B	L39.x
1150	85	155	40	3000	9.0	2.7	3.6	< 60	1.1	6 - B	L49.x
1850	100	185	65	3700	11.0	1.6	2.6	< 60	1.8	6 - C	L55.x
2550	116	185	70	4000	12.0	1.4	2.3	< 60	2.3	4 - G	L59.X
2800	100	255	70	4200	13.0	1.2	2.3	< 75	2.4	6 - D	L69.x
3900	116	255	75	5800	15.0	1.0	2.1	< 75	3.2	4 - G	L79.x
4000	116	285	80	6700	18.0	0.8	1.7	< 80	3.6	4 - G	L89.x
Un [V]= 700 V_{DC} Ur [V]= 320 V Up [V]= 1050 V Us [V]= 1470 V											
370	75	105	28	2200	6.6	3.9	5.4	< 45	0.6	12 - A	009.x
560	75	140	30	2800	8.4	3.7	4.8	< 50	0.8	6 - B	019.x
640	75	155	35	3200	9.6	3.2	4.6	< 60	0.9	6 - B	029.x
740	85	140	35	3300	10.0	3.1	4.2	< 50	1.0	6 - B	039.x
830	90	140	40	3500	10.0	3.0	4.0	< 50	1.1	6 - B	039.x
850	85	155	40	3800	11.5	2.9	3.6	< 60	1.1	6 - B	049.x
1350	100	185	65	5400	16.0	1.8	2.6	< 60	1.8	6 - C	055.x
1900	116	185	70	6600	20.0	1.7	2.3	< 60	2.3	4 - G	059.x
2350	100	255	70	7000	21.0	1.6	2.3	< 75	2.4	6 - D	069.x
2850	116	255	75	7100	21.0	1.3	2.1	< 75	3.2	4 - G	079.x
3300	116	285	85	8200	24.5	1.2	1.7	< 80	3.5	4 - G	089.x
Un [V]= 900 V_{DC} Ur [V]= 550 V Up [V]= 1350 V Us [V]= 1900 V											
280	75	105	30	2200	6.7	4.1	5.4	< 45	0.7	12 - A	119.x
430	75	140	35	2400	7.1	3.8	4.8	< 50	0.8	6 - B	139.x
570	85	140	35	3400	10.3	3.6	4.2	< 50	1.0	6 - B	149.x
620	90	140	40	3600	10.3	3.5	4.0	< 50	1.1	6 - B	159.x
650	85	155	40	3900	11.7	3.5	3.6	< 60	1.1	6 - B	169.x
1050	100	185	65	5300	15.8	2.2	2.6	< 70	1.8	6 - C	179.x
1450	116	185	70	7300	21.8	2.0	2.3	< 70	2.3	4 - G	185.x
1550	100	255	70	7800	23.3	1.9	2.3	< 75	2.4	6 - D	189.x
1800	100	285	75	8100	24.3	1.8	2.2	< 80	2.6	6 - E	191.x
2200	116	255	75	9900	29.7	1.4	2.1	< 75	3.1	4 - G	193.x
2350	100	373	100	10500	31.7	1.2	1.8	< 90	3.4	6 - F	195.x
2500	116	285	85	10000	30.0	1.5	1.7	< 80	3.5	4 - G	197.x
3300	116	373	100	11550	30.0	1.1	1.6	< 90	4.6	4 - H	199.x

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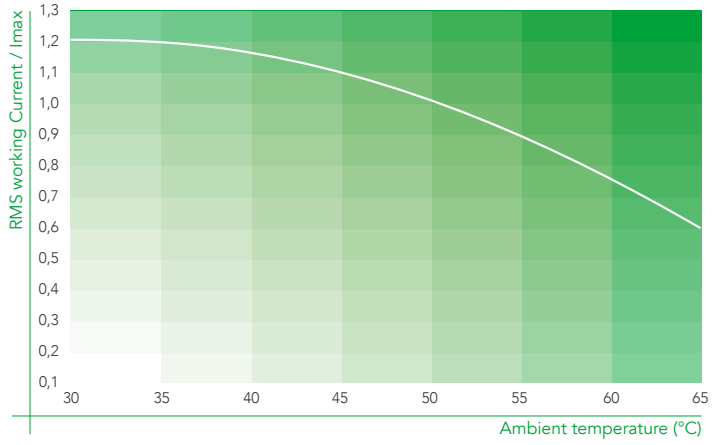
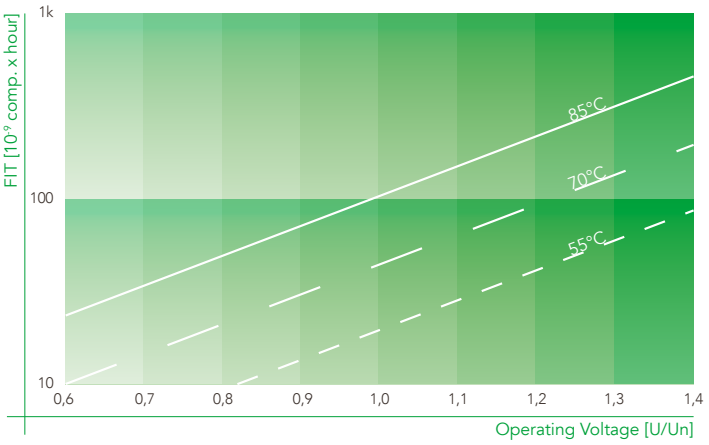
Capacitance Cn [µF]	Diameter Ø [mm]	Height H [mm]	Max. RMS Current I_{MAX} [A]	Repet Peak Current Ip [A]	Surge Current Is [kA]	Series Resistance Rs [mΩ]	Thermal Resistance R_{THC} [°C/W]	Series Inductance Lesr [nH]	Weight [g]	Pcs./box - Box type	Part n. 416.85
Un [V]= 1100 V_{DC} Ur [V]= 700 V Up [V]= 1650 V Us [V]= 2300 V											
180	75	105	30	2160	6.5	4.2	5.4	< 45	0.6	12 - A	219.x
270	75	140	35	3240	9.7	3.9	4.8	< 50	0.8	6 - B	229.x
370	85	140	35	3960	11.9	3.7	4.2	< 50	1.0	6 - B	239.x
420	85	155	40	4200	12.6	3.6	3.6	< 60	1.1	6 - B	250.x
510	90	185	65	5200	16.0	3.1	2.8	< 70	1.6	6 - C	255.x
650	100	185	65	5850	17.6	2.3	2.6	< 70	1.8	6 - C	260.x
900	116	185	70	8100	24.3	2.1	2.3	< 70	2.3	4 - G	265.X
1000	100	255	70	8500	25.5	2.0	2.3	< 75	2.4	6 - D	270.x
1200	100	285	75	9200	27.6	1.9	2.2	< 80	2.6	6 - E	280.x
1400	116	255	75	11900	30.0	1.7	2.1	< 75	3.2	4 - G	285.x
1500	100	373	100	13500	32.0	1.3	1.8	< 90	3.4	6 - F	289.x
1600	116	285	85	12800	32.0	1.7	1.7	< 80	3.5	4 - G	293.x
2100	116	373	100	14400	32.0	1.3	1.7	< 90	4.4	4 - H	298.x
Un [V]= 1300 V_{DC} Ur [V]= 850 V Up [V]= 1950 V Us [V]= 2700 V											
120	75	105	30	2160	6.5	4.3	5.4	< 45	0.6	12 - A	319.x
180	75	140	35	3240	9.7	4.0	4.8	< 50	0.8	6 - B	320.x
250	85	140	35	4000	12.0	3.9	4.2	< 50	1.0	6 - B	330.x
270	90	140	40	4200	12.0	3.8	4.0	< 50	1.1	6 - B	335.x
300	85	155	40	4480	13.5	3.7	3.6	< 60	1.1	6 - B	340.x
470	100	185	65	7200	21.6	2.3	2.6	< 70	1.8	6 - C	350.x
550	90	255	70	8500	25.0	2.2	2.4	< 70	2.3	6 - D	353.x
650	116	185	70	9750	29.5	2.2	2.3	< 70	2.3	4 - G	355.x
700	100	255	70	9800	30.0	2.1	2.3	< 75	2.4	6 - D	360.x
800	100	285	75	11200	32.0	2.0	2.2	< 80	3.1	6 - E	370.x
980	116	255	75	12740	32.0	1.8	2.1	< 75	3.2	4 - G	375.x
1000	100	373	100	12600	32.0	1.3	1.8	< 90	3.5	6 - F	399.x
1150	116	285	85	13800	32.0	1.8	1.7	< 80	3.6	4 - G	385.x
1450	116	373	100	14500	32.0	1.4	1.6	< 90	4.6	4 - H	388.x

RMS working current vs Ambient temperature



FIT vs Hot Spot Temperature



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Capacitance Cn [µF]	Diameter Ø [mm]	Height H [mm]	Max. RMS Current I_{MAX} [A]	Repet Peak Current Ip [A]	Surge Current Is [kA]	Series Resistance Rs [mΩ]	Thermal Resistance R_{THC} [°C/W]	Series Inductance Lesr [nH]	Weight [Kg]	Pcs./box - Box type	Part n. 416.85
Un [V]= 1550 V_{DC} Ur [V]= 990 V Up [V]= 2300 V Us [V]= 3000 V											
90	75	105	30	2250	6.5	4.4	5.4	< 45	0.6	12 - A	419.x
140	75	140	35	2940	9.7	4.1	4.8	< 50	0.8	6 - B	420.x
180	85	140	35	3600	12.0	4.0	4.2	< 50	1.0	6 - B	430.x
200	85	155	40	4200	13.5	3.8	3.6	< 60	1.1	6 - B	440.x
250	90	155	45	5000	15.0	3.4	3.3	< 60	1.3	6 - B	445.x
350	100	185	65	7000	21.6	2.3	2.6	< 70	2.2	6 - C	450.x
400	90	255	70	7500	25.0	2.2	2.4	< 70	2.3	6 - D	457.x
470	116	185	70	8460	29.5	2.3	2.3	< 70	2.3	4 - G	455.x
500	100	255	70	9000	30.0	2.2	2.3	< 75	2.4	6 - D	460.x
600	100	285	75	9600	32.0	2.0	2.2	< 80	2.6	6 - E	470.x
700	116	255	75	11200	32.0	1.9	2.1	< 75	3.2	4 - G	475.x
750	100	373	100	12000	32.0	1.4	1.8	< 90	3.3	6 - F	480.x
820	116	285	85	13120	32.0	1.9	1.7	< 80	3.7	4 - G	485.x
1050	116	373	100	14700	32.0	1.4	1.6	< 90	4.6	4 - H	498.x
Un [V] = 1800 V_{DC} Ur [V] = 1150 V Up [V] = 2700 V Us [V] = 300 V											
60	75	105	30	2100	6.5	4.5	5.4	< 45	0.6	12 - A	510.x
100	75	140	35	3000	9.7	4.2	4.8	< 50	0.8	6 - B	520.x
135	85	140	35	3375	12.0	4.1	4.2	< 50	1.0	6 - B	530.x
150	85	155	40	3450	13.5	3.9	3.6	< 60	1.1	6 - B	540.x
190	90	155	45	3900	15.0	3.4	3.3	< 60	1.3	6 - B	545.x
240	100	185	65	4800	21.6	2.3	2.6	< 70	1.8	6 - C	550.x
310	90	255	70	6500	25.0	2.1	2.4	< 70	2.2	6 - D	553.x
340	116	185	70	6800	29.5	2.2	2.3	< 70	2.2	4 - G	555.x
370	100	255	70	7400	30.0	2.1	2.3	< 75	2.3	6 - D	560.x
430	100	285	75	9600	32.0	2.0	2.2	< 80	2.6	6 - E	570.x
530	116	255	75	10750	32.0	2.0	2.1	< 75	3.3	4 - G	575.x
560	100	373	100	11500	32.0	1.4	1.8	< 90	3.5	6 - F	580.x
610	116	285	85	12500	32.0	1.9	1.7	< 80	3.6	4 - G	585.x
800	116	373	100	14400	32.0	1.5	1.6	< 90	4.6	4 - H	598.x

NOTES:
(**Cn**) Tollerance standard value: -15 ... +0%. Other tollerance values on request.
(**Cn**) - (Un) Capacitance and rated voltage standard values, other values on request.
(**Ur**) Maximum peak to peak alternating voltage component on the DC working voltage.
(**Rs**) Releted at 1 KHz.
(R_{THC}) Thermal registance CASE TO AMBIENT in natural cooling environment.
(I_{MAX}) Maximum RMS current, refered to an ambient temperature of 50 °C (natural cooling) and working frequency of 1 KHz.
(**x code**) According to the terminal type: x=0--> A SOLUTION (internal thread M6) / x=1 B SOLUTION (M8 screw type bolts).

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