

E62 HEAVY DUTY AC/DC CAPACITORS

UNIVERSELLE AC/DC-KONDENSATOREN

Ihr Vertriebspartner:
HY-LINE[®]
POWER COMPONENTS

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Your perfect choice for universal or heavy duty AC/DC applications

In modern applications of power electronics, AC capacitors are among the most critical links in the chain of components when it comes to long operating life, safety and reliability of operation.

Decades of proprietary ELECTRONICON experience in metallizing capacitor films and designing high-end capacitors have created our very own Know-How, for instance in special metallizing patterns, our **SINECUT™** slitting technology and optimized winding geometries. This enables us to design AC capacitors with a high specific ratio of capacitance to volume, high AC-voltage load capacity and outstanding suitability for high rms and surge currents.

The cylindrical capacitors of our universal AC/DC series „E62“ are perfect for non-sinusoidal voltages and pulsed currents, e.g. as damping or commutation capacitors switched in parallel to thyristors, or connected in series with resistors (damping of undesirable voltage spikes during the switching of power semiconductors). They can be widely used as supporting, smoothing, and surge discharge capacitors, further in AC filters, a.m.o. The low loss factor of our MKP dielectric compensates to a large extent for the losses caused by the non-sinusoidal voltages. It goes without saying that all AC capacitors may as well be used for DC applications.

The E62s are housed in a hermetically sealed aluminium can which is filled with environmentally friendly plant oil as standard; optionally many of them can also be made available with a filling of inert gas. The gas filling is not only environmentally friendly, but also permits mounting in any position, while oil-filled capacitors should – for electrical as well as environmental considerations – always be mounted vertically.

The excellent self-healing characteristics of our film metallization and the integrated overpressure protection (BAM™) ensure safe operation and controlled disconnection in the event of overload or failure at the end of operating life.

Die Erste Wahl für universelle und höchst anspruchsvolle Wechsel- und Gleichspannungs-Anwendungen

In modernen Leistungselektronik-Anwendungen zählen AC Kondensatoren zu den kritischsten Komponenten im Bezug auf Lebensdauer, Sicherheit und Zuverlässigkeit.

Aus jahrzehntelanger ELECTRONICON-Erfahrung in der Entwicklung hochwertiger Kondensatoren und der Metallisierung von Kondensatorfolien ist unser eigenes Know-How erwachsen, das sich z.B. in speziellen Bedämpfungsmethoden, unserer **SINECUT™** Schneidtechnologie und optimierten Wickelgeometrien widerspiegelt. Dieses Know-How ermöglicht uns die Entwicklung von Wechselspannungskondensatoren mit hohem spezifischen Kapazitäts-Volumen-Verhältnis, hoher Wechselspannungsbelaubarkeit und hervorragender Eignung für hohe Effektiv- und Stoßströme.

Die zylindrischen Kondensatoren unserer universellen AC/DC Serie „E62“ sind ideal für den Einsatz bei nicht-sinusförmigen Spannungen und impulsförmigen Strömen, z.B. als Bedämpfungs- oder Kommutierungskondensatoren, geschaltet parallel zu Thyristoren oder in Serie zu Widerständen (zur Dämpfung unerwünschter Spannungsspitzen während des Schaltens von Leistungshalbleitern). Sie werden außerdem als Stütz-, Glättungs- und Stoßentladekondensatoren sowie in Wechselspannungsfiltern genutzt. Der geringe Verlustfaktor der von uns verwendeten Technologien vermag die Verluste weitgehend auszugleichen, welche durch die nicht-sinusförmigen Spannungen verursacht werden. Selbstverständlich taugen alle Wechselspannungskondensatoren auch für Gleichspannungsanwendungen.

Die E62er sind in einem hermetisch dicht verschlossenen Aluminiumbecher untergebracht, der normalerweise mit ökologisch unbedenklichem Pflanzenöl gefüllt ist; optional werden viele E62er Typen auch mit Gasfüllung angeboten. Die Gasfüllung ist nicht nur besonders umweltfreundlich, sondern ermöglicht den Einbau in beliebiger Lage, während ölgefüllte Kondensatoren aus elektrischen und umwelttechnischen Gründen stets vertikal eingebaut werden sollten.

Für einen sicheren Schutz bei Überlastung bzw. einen kontrollierten Ausfall am Ende der Lebensdauer sorgen die ausgezeichnete Selbstheilfähigkeit unserer Folie-Metallisierung sowie ein in den Kondensatoren integrierter Überdruckmechanismus (BAM™).



E62.***
AC/DC
420...5000V AC / 700...5000V DC

AC/DC-Capacitors for General Use
 Gleich- und Wechselspannungskondensatoren (allgemeine Anwendung)



CAPAGRIP™

Standards IEC 61071
 optional IEC 61881

can Gehäuse aluminium Aluminium
mounting position Einbautage .. terminals pointing upwards stehend
filling material Füllmittel liquid, based on vegetable oil, non-PCB
 flüssig, auf Pflanzenölbasis, PCB-frei

Internal protection break-action mechanism (BAM)
 Interne Sicherung Überdrucksicherung

fire load Brandlast 40 MJ/kg

C_N tolerance Toleranz ±10% (optional ±5%)
insulation strength Isolationsgüte C × R_{is} 5000 s
tanδ₀ 2 × 10⁻⁴
operating temperatures Grenztemperaturen
 Θ_{min} ... Θ_{max} -25 ... +85°C
 lower temperatures on request
 Θ_{HOTSPOT} ≤ 85°C

storing temperature Lagertemperatur -40 ... +85°C
Failure rate Ausfallrate 100 FIT
 reference service life_Referenzbetriebsdauer 100000 h, Θ_{HOTSPOT} ≤ 70°



| C _N (μF) | R _S (mΩ) | L _e (nH) | R _{th} (K/W) | I _{max} (A) | Î (kA) | I _S (kA) | W _N (Ws) | D ₁ × L ₁ (mm) | Design Maßbild | m (kg) | order no. Bestell-Nr. | pcs / box Stk / Box |
|----------------------------------|------------------------|------------------------|--------------------------|-------------------------|------------|------------------------|------------------------|---|-------------------|--------------------------|--------------------------|------------------------|
| U _N 700V DC / 420V AC | | | U _{rms} 300V | | | U _S 1050V | | U _{BB} 1050V DC | | U _{B6} 3000V AC | | |
| 20 | 2.6 | 60 | 19.2 | 16 | 0.5 | 1.5 | 4.9 | 40 × 58 | D1 | 0.08 | E62.E58-203D10 | 36 / FB4 |
| 22 | 5.4 | 80 | 15.7 | 10 | 0.3 | 0.9 | 5.4 | 35 × 81 | E2 | 0.1 | E62.D81-223E20 | 50 / FB3 |
| 24 | 5.0 | 80 | 15.7 | 10 | 0.3 | 0.9 | 5.9 | 35 × 81 | E2 | 0.1 | E62.D81-243E20 | 50 / FB3 |
| 35 | 4.0 | 80 | 13.9 | 16 | 0.4 | 1.2 | 8.6 | 40 × 81 | D1 | 0.11 | E62.E81-353D10 | 36 / FB3 |
| 50 | 3.3 | 80 | 12.2 | 16 | 0.57 | 1.71 | 12.3 | 45 × 81 | D1 | 0.14 | E62.F81-503D10 | 32 / FB3 |
| 60 | 3.3 | 100 | 10.5 | 32 | 0.7 | 2.1 | 14.7 | 50 × 85 | G1 | 0.18 | E62.G85-603G10 | 21 / FB2 |
| 75 | 2.7 | 80 | 9.5 | 16 | 0.75 | 2.6 | 18.4 | 55 × 85 | D1 | 0.21 | E62.H85-753D10 | 18 / FB3 |
| 80 | 4.7 | 80 | 9.5 | 16 | 0.9 | 2.7 | 19.6 | 55 × 85 | D1 | 0.21 | E62.H85-803D10 | 18 / FB3 |
| 90 | 2.5 | 80 | 8.7 | 16 | 1.0 | 3.0 | 22.1 | 60 × 85 | D1 | 0.25 | E62.K85-903D10 | 18 / FB3 |
| 100 | 3.1 | 100 | 7.2 | 40 | 1.15 | 3.45 | 24.5 | 65 × 95 | G1 | 0.33 | E62.L95-104G10 | 10 / FB2 |
| 120 | 1.0 | 140 | 5.7 | 50 | 1.4 | 4.2 | 29.4 | 75 × 105 | C6 | 0.5 | E62.M10-124C60 | 8 / FB0 |
| 130 | 3.4 | 110 | 6.3 | 40 | 1.2 | 3.6 | 31.9 | 65 × 109 | G1 | 0.4 | E62.L10-134G10 | 10 / FB1 |
| 150 | 2.0 | 80 | 5.7 | 43 | 1.7 | 5.1 | 36.8 | 75 × 105 | L1 | 0.5 | E62.M10-154L10 | 8 / FB1 |
| 170 | 0.82 | 140 | 5.0 | 50 | 2.0 | 6.0 | 41.7 | 85 × 105 | C6 | 0.6 | E62.N10-174C60 | 10 / FB10 |
| 180 | 1.3 | 110 | 5.0 | 43 | 2.0 | 6.0 | 44.1 | 85 × 105 | L1 | 0.6 | E62.N10-184L10 | 10 / FB10 |
| 200 | 4.4 | 140 | 4.7 | 30 | 1.2 | 3.6 | 49.0 | 65 × 145 | G1 | 0.5 | E62.L14-204G10 | 10 / FB7 |
| 220 | 0.7 | 140 | 4.5 | 50 | 2.5 | 7.5 | 53.9 | 95 × 105 | C6 | 0.8 | E62.P10-224C60 | 6 / FB10 |
| 220 | 4.5 | 130 | 4.3 | 16 | 1.2 | 3.6 | 53.9 | 65 × 160 | D2 | 0.6 | E62.L16-224D20 | 10 / FB7 |
| 300 | 4.1 | 90 | 3.7 | 16 | 1.6 | 4.8 | 73.5 | 75 × 160 | D2 | 0.7 | E62.M16-304D20 | 8 / FB7 |
| 400 | 0.68 | 160 | 2.1 | 80 | 4.5 | 13.5 | 98.0 | 85 × 245 | C6 | 1.7 | E62.N24-404C60 | 5 / FB12 |
| 470 | 0.53 | 160 | 2.7 | 50 | 5.3 | 15.9 | 115.2 | 95 × 176 | C6 | 1.3 | E62.P17-474C60 | 3 / FB8 |

Other values and dimensions available on request_Andere Werte und Abmessungen auf Anfrage erhältlich



420...5000V AC / 700...5000V DC

| C_N (μF) | R_s ($\text{m}\Omega$) | L_e (nH) | R_{th} (K/W) | I_{max} (A) | \hat{I} (kA) | I_s (kA) | W_N (Ws) | $D_1 \times L_1$ (mm) | Design Maßbild | m (kg) | order no. Bestell-Nr. | pcs / box Stk / Box |
|--|-------------------------------|--------------------------|------------------------------|----------------------------------|------------------------------|-------------------------------|--------------------------|-------------------------------------|-------------------|-------------------------------------|--------------------------|------------------------|
| U_N 700V DC / 420V AC | | | | U_{rms} 300V | | U_s 1050V | | U_{BB} 1050V DC | | U_{BG} 3000V AC | | |
| 500 | 0.57 | 160 | 2.5 | 80 | 5.7 | 17.1 | 122.5 | 100 × 176 | C6 | 1.5 | E62.Q17-504C60 | 3 / FB8 |
| 700 | 0.6 | 130 | 2.2 | 80 | 8.0 | 20 | 171.5 | 116 × 176 | M1 | 2.0 | E62.R17-704M10 | 3 / FB8 |
| 1100 | 0.49 | 130 | 1.6 | 80 | 12.8 | 20 | 269.5 | 116 × 245 | M1 | 2.7 | E62.R24-115M10 | 3 / FB12 |
| 1500 | 0.39 | 130 | 1.3 | 80 | 15 | 20 | 367.5 | 136 × 245 | M1 | 3.7 | E62.S24-155M10 | 2 / FB12 |
| 2000 | 0.60 | 190 | 1.0 | 100 | 15 | 20 | 490.0 | 136 × 320 | C6 | 4.9 | E62.S32-205C60 | 2 / FB13 |
| U_N 840V DC / 500V AC | | | | U_{rms} 360V | | U_s 1260V | | U_{BB} 1260V DC | | U_{BG} 3000V AC | | |
| 1.0 | 18.6 | 60 | 37.1 | 6 | 0.1 | 0.3 | 0.4 | 25 × 48 | E1 | 0.03 | E62.B48-102E10 | 98 / FB4 |
| 25 | 4.3 | 80 | 13.8 | 16 | 0.4 | 1.1 | 8.8 | 40 × 81 | D1 | 0.11 | E62.E81-253D10 | 36 / FB3 |
| 33 | 3.7 | 80 | 12.2 | 16 | 0.5 | 1.4 | 11.6 | 45 × 81 | D1 | 0.14 | E62.F81-333D10 | 32 / FB3 |
| 40 | 3.6 | 100 | 10.5 | 30 | 0.6 | 1.7 | 14.1 | 50 × 85 | G1 | 0.18 | E62.G85-403G10 | 21 / FB2 |
| 50 | 3.0 | 80 | 9.5 | 16 | 0.7 | 2.1 | 17.6 | 55 × 85 | D1 | 0.21 | E62.H85-503D10 | 18 / FB3 |
| 60 | 2.8 | 80 | 8.7 | 16 | 0.8 | 2.5 | 21.2 | 60 × 85 | D1 | 0.25 | E62.K85-603D10 | 18 / FB3 |
| 75 | 2.3 | 100 | 7.2 | 40 | 1.0 | 3.0 | 26.5 | 65 × 95 | G1 | 0.33 | E62.L95-753G10 | 10 / FB2 |
| 100 | 2.1 | 110 | 5.7 | 43 | 1.4 | 4.2 | 35.3 | 75 × 105 | L1 | 0.5 | E62.M10-104L10 | 8 / FB0 |
| 160 | 1.2 | 110 | 4.5 | 43 | 2.2 | 6.6 | 56.4 | 95 × 105 | L1 | 0.8 | E62.P10-164L10 | 6 / FB10 |
| 160 | 4.2 | 100 | 4.3 | 16 | 1.0 | 3.0 | 56.4 | 65 × 160 | D2 | 0.6 | E62.L16-164D20 | 10 / FB7 |
| 200 | 2.2 | 130 | 3.4 | 43 | 2.8 | 8.4 | 70.6 | 75 × 176 | L1 | 0.8 | E62.M17-204L10 | 5 / FB8 |
| 200 | 3.9 | 140 | 3.7 | 16 | 1.3 | 3.9 | 70.6 | 75 × 160 | D2 | 0.7 | E62.M16-204D20 | 8 / FB7 |
| 300 | 0.6 | 160 | 2.7 | 80 | 4.1 | 12.3 | 105.8 | 95 × 176 | C6 | 1.3 | E62.P17-304C60 | 3 / FB8 |
| 300 | 0.7 | 130 | 2.7 | 80 | 4.1 | 12.3 | 105.8 | 95 × 176 | M1 | 1.3 | E62.P17-304M10 | 3 / FB8 |
| 350 | 0.8 | 130 | 2.5 | 80 | 4.8 | 14.4 | 123.5 | 100 × 176 | M1 | 1.5 | E62.Q17-354M10 | 3 / FB8 |
| 500 | 0.62 | 130 | 2.2 | 80 | 6.9 | 20 | 176.4 | 116 × 176 | M1 | 2.0 | E62.R17-504M10 | 3 / FB8 |
| 620 | 0.58 | 160 | 1.6 | 100 | 9.0 | 15.0 | 218.7 | 116 × 245 | C6 | 2.7 | E62.R24-624C60 | 3 / FB12 |
| 750 | 0.57 | 170 | 1.6 | 100 | 10.0 | 20 | 264.6 | 116 × 245 | C6 | 2.7 | E62.R24-754C60 | 3 / FB12 |
| 1000 | 0.56 | 170 | 1.3 | 100 | 14.0 | 20 | 352.8 | 136 × 245 | C6 | 3.7 | E62.S24-105C60 | 2 / FB12 |
| 1500 | 0.5 | 190 | 1.0 | 100 | 15 | 20 | 529.2 | 136 × 320 | C6 | 4.9 | E62.S32-155C60 | 2 / FB13 |
| U_N 1000V DC / 640V AC | | | | U_{rms} 450V | | U_s 1500V | | U_{BB} 1500V DC | | U_{BG} 3000V AC | | |
| 4.7 | 5.4 | 60 | 25.6 | 10 | 0.24 | 0.72 | 2.4 | 30 × 58 | E1 | 0.05 | E62.C58-472E10 | 72 / FB4 |
| 5.0 | 4.9 | 60 | 25.6 | 10 | 0.26 | 0.8 | 2.5 | 30 × 58 | E1 | 0.05 | E62.C58-502E10 | 72 / FB4 |
| 6.0 | 4.5 | 60 | 21.9 | 16 | 0.35 | 1.02 | 3.0 | 35 × 58 | E2 | 0.07 | E62.D58-602E20 | 50 / FB4 |
| 6.8 | 4.1 | 60 | 21.9 | 16 | 0.35 | 1.04 | 3.4 | 35 × 58 | E2 | 0.07 | E62.D58-682E20 | 50 / FB4 |
| 10 | 3.2 | 60 | 19.2 | 16 | 0.40 | 1.2 | 5.0 | 40 × 58 | D1 | 0.08 | E62.E58-103D10 | 36 / FB4 |
| 15 | 5.5 | 80 | 13.8 | 16 | 0.24 | 0.72 | 7.5 | 40 × 81 | D1 | 0.11 | E62.E81-153D10 | 36 / FB3 |
| 15 | 2.9 | 100 | 14.4 | 25 | 0.24 | 0.7 | 7.5 | 50 × 62 | G1 | 0.14 | E62.G62-153G10 | 21 / FB3 |
| 18 | 4.8 | 80 | 13.8 | 16 | 0.29 | 0.87 | 9.0 | 40 × 81 | D1 | 0.11 | E62.E81-183D10 | 36 / FB3 |
| 22 | 4.3 | 80 | 12.2 | 16 | 0.35 | 1.1 | 11.0 | 45 × 81 | D1 | 0.14 | E62.F81-223D10 | 32 / FB3 |



E62.***

AC/DC

420...5000V AC / 700...5000V DC



| C_N (μF) | R_s ($m\Omega$) | L_e (nH) | R_{th} (K/W) | I_{max} (A) | \hat{I} (kA) | I_s (kA) | W_N (Ws) | $D_1 \times L_1$ (mm) | Design Maßbild | m (kg) | order no. Bestell-Nr. | pcs / box Stk / Box |
|--------------------------|------------------------|---------------|-------------------|------------------|-------------------|---------------|---------------|--------------------------|-------------------|-------------------|--------------------------|------------------------|
| U_N 1000V DC / 640V AC | | | U_{rms} 450V | | | U_s 1500V | | U_{BB} 1500V DC | | U_{BC} 3000V AC | | |
| 25 | 4.0 | 80 | 12.2 | 16 | 0.4 | 1.2 | 12.5 | 45 × 81 | D1 | 0.14 | E62.F81-253D10 | 32 / FB3 |
| 30 | 3.9 | 100 | 10.5 | 33 | 0.5 | 1.4 | 15.0 | 50 × 85 | G1 | 0.18 | E62.G85-303G10 | 21 / FB2 |
| 40 | 3.4 | 80 | 9.5 | 16 | 0.6 | 1.9 | 20.0 | 55 × 85 | D1 | 0.21 | E62.H85-403D10 | 18 / FB3 |
| 47 | 2.9 | 80 | 8.7 | 16 | 0.8 | 2.3 | 23.5 | 60 × 85 | D1 | 0.25 | E62.K85-473D10 | 18 / FB3 |
| 50 | 3.4 | 100 | 7.2 | 40 | 0.8 | 2.4 | 25.0 | 65 × 95 | G1 | 0.33 | E62.L95-503G10 | 10 / FB2 |
| 68 | 3.7 | 100 | 6.3 | 30 | 0.9 | 2.7 | 34.0 | 65 × 109 | G1 | 0.4 | E62.L10-683G10 | 10 / FB1 |
| 75 | 2.7 | 110 | 5.7 | 43 | 1.2 | 3.6 | 37.5 | 75 × 105 | L1 | 0.5 | E62.M10-753L10 | 8 / FB1 |
| 80 | 1.4 | 110 | 5.0 | 43 | 1.3 | 3.8 | 40.0 | 85 × 105 | L1 | 0.6 | E62.N10-803L10 | 10 / FB10 |
| 100 | 0.53 | 100 | 4.4 | 80 | 3.0 | 9.0 | 50.0 | 85 × 120 | C6 | 0.9 | E62.N12-104C60 | 10 / FB11 |
| 120 | 1.6 | 110 | 4.5 | 43 | 1.9 | 5.8 | 60.0 | 95 × 105 | L1 | 0.8 | E62.P10-124L10 | 6 / FB10 |
| 120 | 5.0 | 130 | 4.3 | 16 | 0.9 | 2.7 | 60.0 | 65 × 160 | D2 | 0.6 | E62.L16-124D20 | 10 / FB7 |
| 150 | 4.6 | 110 | 3.7 | 16 | 1.1 | 3.3 | 75.0 | 75 × 160 | D2 | 0.7 | E62.M16-154D20 | 8 / FB7 |
| 150 | 1.5 | 100 | 3.4 | 30 | 2.3 | 6.9 | 75.0 | 75 × 176 | K1 | 0.8 | E62.M17-154K10 | 5 / FB8 |
| 200 | 0.7 | 160 | 2.7 | 80 | 3.5 | 10.5 | 100.0 | 95 × 176 | C6 | 1.3 | E62.P17-204C60 | 3 / FB8 |
| 250 | 0.63 | 160 | 2.5 | 80 | 4.0 | 12.02 | 125.0 | 100 × 176 | C6 | 1.5 | E62.Q17-254C60 | 3 / FB8 |
| 250 | 1.3 | 130 | 2.7 | 43 | 4.0 | 12.02 | 125.0 | 95 × 176 | L1 | 1.3 | E62.P17-254L10 | 3 / FB8 |
| 350 | 0.57 | 160 | 2.2 | 80 | 5.6 | 16.8 | 175.0 | 116 × 176 | C6 | 2.0 | E62.R17-354C60 | 3 / FB8 |
| 500 | 0.6 | 170 | 1.6 | 100 | 7.8 | 20 | 250.0 | 116 × 245 | C6 | 2.7 | E62.R24-504C60 | 3 / FB12 |
| 750 | 0.64 | 190 | 1.2 | 100 | 12.0 | 20 | 375.0 | 116 × 320 | C6 | 3.5 | E62.R32-754C60 | 3 / FB13 |
| 800 | 0.63 | 170 | 1.3 | 100 | 12.8 | 20 | 400.0 | 136 × 245 | C6 | 3.7 | E62.S24-804C60 | 2 / FB12 |
| 1000 | 0.62 | 190 | 1.0 | 100 | 15.6 | 20 | 500.0 | 136 × 320 | C6 | 4.9 | E62.S32-105C60 | 2 / FB13 |
| U_N 1120V DC / 680V AC | | | U_{rms} 480V | | | U_s 1680V | | U_{BB} 1680V DC | | U_{BC} 3000V AC | | |
| 3.3 | 6.5 | 60 | 25.6 | 15 | 0.17 | 0.5 | 2.1 | 30 × 58 | E1 | 0.05 | E62.C58-332E10 | 72 / FB4 |
| 12 | 5.8 | 80 | 13.8 | 16 | 0.2 | 0.7 | 7.5 | 40 × 81 | D1 | 0.11 | E62.E81-123D10 | 36 / FB3 |
| 20 | 4.2 | 80 | 12.2 | 16 | 0.4 | 1.1 | 12.5 | 45 × 81 | D1 | 0.14 | E62.F81-203D10 | 32 / FB3 |
| 25 | 4.0 | 100 | 10.5 | 28 | 0.5 | 1.4 | 15.7 | 50 × 85 | G1 | 0.18 | E62.G85-253G10 | 21 / FB2 |
| 30 | 3.3 | 80 | 9.5 | 16 | 0.5 | 1.6 | 18.8 | 55 × 85 | D1 | 0.21 | E62.H85-303D10 | 18 / FB3 |
| 33 | 3.2 | 80 | 8.7 | 16 | 0.6 | 1.8 | 20.7 | 60 × 85 | D1 | 0.25 | E62.K85-333D10 | 18 / FB3 |
| 40 | 3.5 | 100 | 7.2 | 38 | 0.7 | 2.2 | 25.1 | 65 × 95 | G1 | 0.33 | E62.L95-403G10 | 10 / FB2 |
| 40 | 5.9 | 120 | 7.2 | 25 | 0.44 | 1.3 | 25.1 | 50 × 124 | G1 | 0.3 | E62.G12-403G10 | 21 / FB1 |
| 60 | 2.3 | 110 | 5.7 | 43 | 1.1 | 3.3 | 37.6 | 75 × 105 | L1 | 0.5 | E62.M10-603L10 | 8 / FB1 |
| 68 | 1.5 | 110 | 5.0 | 43 | 1.2 | 3.7 | 42.6 | 85 × 105 | L1 | 0.6 | E62.N10-683L10 | 10 / FB10 |
| 90 | 4.8 | 110 | 4.3 | 16 | 0.78 | 2.4 | 56.4 | 65 × 160 | D2 | 0.6 | E62.L16-903D20 | 10 / FB7 |
| 100 | 5.1 | 100 | 3.7 | 16 | 0.87 | 2.6 | 62.7 | 75 × 160 | D2 | 0.7 | E62.M16-104D20 | 8 / FB7 |
| 100 | 1.3 | 110 | 4.2 | 43 | 1.8 | 5.5 | 62.7 | 100 × 105 | L1 | 0.9 | E62.Q10-104L10 | 6 / FB10 |
| 110 | 1.5 | 100 | 3.4 | 30 | 2.0 | 6.0 | 69.0 | 75 × 176 | K1 | 0.8 | E62.M17-114K10 | 5 / FB8 |
| 180 | 1.4 | 130 | 2.7 | 43 | 3.3 | 9.9 | 112.9 | 95 × 176 | L1 | 1.3 | E62.P17-184L10 | 3 / FB8 |
| 200 | 0.66 | 160 | 2.5 | 80 | 3.7 | 11.1 | 125.4 | 100 × 176 | C6 | 1.5 | E62.Q17-204C60 | 3 / FB8 |
| 280 | 0.6 | 160 | 2.2 | 80 | 5.1 | 15.3 | 175.6 | 116 × 176 | C6 | 2.0 | E62.R17-284C60 | 3 / FB8 |
| 400 | 0.6 | 170 | 1.6 | 100 | 7.3 | 20 | 250.9 | 116 × 245 | C6 | 2.7 | E62.R24-404C60 | 3 / FB12 |
| 600 | 0.56 | 170 | 1.3 | 100 | 10.7 | 20 | 376.3 | 136 × 245 | C6 | 3.7 | E62.S24-604C60 | 2 / FB12 |
| 800 | 0.63 | 190 | 1.0 | 100 | 14.8 | 20 | 501.8 | 136 × 320 | C6 | 4.9 | E62.S32-804C60 | 2 / FB13 |

Other values and dimensions available on request_Andere Werte und Abmessungen auf Anfrage erhältlich



420...5000V AC / 700...5000V DC

| C_N (μ F) | R_S ($m\Omega$) | L_e (nH) | R_{th} (K/W) | I_{max} (A) | \hat{I} (kA) | I_S (kA) | W_N (Ws) | $D_1 \times L_1$ (mm) | Design Maßbild | m (kg) | order no. Bestell-Nr. | pcs / box Stk / Box |
|--|------------------------|---------------|-------------------|----------------------------------|-------------------|-------------------------------|---------------|-------------------------------------|-----------------------|-------------------------------------|--------------------------|------------------------|
| U_N 1260V DC / 750V AC | | | | U_{rms} 530V | | U_S 1900V | | U_{BB} 1890V DC | | U_{BG} 3000V AC | | |
| 4.7 | 11.1 | 60 | 18.3 | 10 | 0.22 | 0.66 | 3.4 | 30 × 81 | E1 ¹⁾ | 0.07 | E62.C81-472E10 | 72 / FB3 |
| 10 | 6.1 | 110 | 13.8 | 16 | 0.45 | 1.35 | 7.9 | 40 × 81 | D1 ¹⁾ | 0.11 | E62.E81-103D10 | 36 / FB3 |
| 10 | 3.1 | 110 | 14.4 | 20 | 0.40 | 1.2 | 7.9 | 50 × 62 | G1 | 0.14 | E62.G62-103G10 | 21 / FB3 |
| 15 | 5.9 | 110 | 11.6 | 16 | 0.3 | 0.9 | 11.9 | 45 × 85 | B2 | 0.14 | E62.F85-153B20 | 21 / FB1 |
| 20 | 4.2 | 100 | 10.5 | 27 | 0.4 | 1.2 | 15.9 | 50 × 85 | G1 | 0.18 | E62.G85-203G10 | 21 / FB2 |
| 22 | 3.5 | 120 | 8.7 | 16 | 0.5 | 1.5 | 17.5 | 60 × 85 | D1 ¹⁾ | 0.25 | E62.K85-223D10 | 18 / FB3 |
| 24 | 3.8 | 110 | 9.5 | 29 | 0.5 | 1.5 | 19.1 | 55 × 85 | G1 | 0.21 | E62.H85-243G10 | 18 / FB1 |
| 26 | 3.4 | 120 | 8.7 | 16 | 0.5 | 1.5 | 20.6 | 60 × 85 | D1 ¹⁾ | 0.25 | E62.K85-263D10 | 18 / FB3 |
| 29 | 3.2 | 120 | 8.7 | 16 | 0.6 | 1.8 | 23.0 | 60 × 85 | D1 | 0.25 | E62.K85-293D10 | 18 / FB3 |
| 33 | 3.6 | 100 | 7.2 | 37 | 0.7 | 2.0 | 26.2 | 65 × 95 | G1 | 0.33 | E62.L95-333G10 | 10 / FB2 |
| 47 | 2.4 | 110 | 5.7 | 43 | 1.0 | 2.9 | 37.3 | 75 × 105 | L1 | 0.5 | E62.M10-473L10 | 8 / FB1 |
| 60 | 1.5 | 110 | 5.0 | 43 | 1.2 | 3.7 | 47.6 | 85 × 105 | L1 | 0.6 | E62.N10-603L10 | 10 / FB10 |
| 70 | 5.6 | 140 | 4.3 | 16 | 0.68 | 2.0 | 55.6 | 65 × 160 | D2 | 0.6 | E62.L16-703D20 | 10 / FB7 |
| 75 | 1.4 | 110 | 4.5 | 43 | 1.5 | 4.6 | 59.5 | 95 × 105 | L1 | 0.8 | E62.P10-753L10 | 6 / FB10 |
| 80 | 5.3 | 130 | 3.7 | 20 | 0.78 | 2.3 | 63.5 | 75 × 160 | D2 ¹⁾ | 0.7 | E62.M16-803D20 | 8 / FB7 |
| 80 | 1.6 | 100 | 3.4 | 30 | 1.60 | 4.8 | 63.5 | 75 × 176 | K1 | 0.8 | E62.M17-803K10 | 5 / FB8 |
| 80 | 1.4 | 110 | 4.2 | 43 | 1.60 | 5.0 | 63.5 | 100 × 105 | L1 | 0.9 | E62.Q10-803L10 | 6 / FB10 |
| 150 | 1.4 | 130 | 2.7 | 43 | 3.1 | 9.3 | 119.1 | 95 × 176 | L1 | 1.3 | E62.P17-154L10 | 3 / FB8 |
| 150 | 0.7 | 160 | 2.5 | 80 | 3.1 | 9.3 | 119.1 | 100 × 176 | C6 | 1.5 | E62.Q17-154C60 | 3 / FB8 |
| 220 | 0.61 | 160 | 2.2 | 80 | 4.5 | 13.5 | 174.6 | 116 × 176 | C6 | 2.0 | E62.R17-224C60 | 3 / FB8 |
| 330 | 0.61 | 170 | 1.6 | 100 | 6.8 | 20 | 262.0 | 116 × 245 | C6 | 2.7 | E62.R24-334C60 | 3 / FB12 |
| 500 | 0.56 | 170 | 1.3 | 100 | 10.1 | 20 | 396.9 | 136 × 245 | C6 | 3.7 | E62.S24-504C60 | 2 / FB12 |
| 600 | 0.64 | 190 | 1.0 | 100 | 12.4 | 20 | 476.3 | 136 × 320 | C6 | 4.9 | E62.S32-604C60 | 2 / FB13 |
| U_N 1400V DC / 850V AC | | | | U_{rms} 600V | | U_S 2100V | | U_{BB} 2100V DC | | U_{BG} 3000V AC | | |
| 2.0 | 8.1 | 60 | 25.6 | 10 | 0.18 | 0.5 | 1.4 | 30 × 58 | E1 ¹⁾ / E4 | 0.05 | E62.C58-202E[1/4]0 | 72 / FB4 |
| 2.2 | 7.5 | 60 | 25.6 | 10 | 0.2 | 0.6 | 1.6 | 30 × 58 | E1 ¹⁾ / E4 | 0.05 | E62.C58-222E[1/4]0 | 72 / FB4 |
| 4.0 | 11.7 | 80 | 18.3 | 10 | 0.18 | 0.5 | 2.9 | 30 × 81 | E1 ¹⁾ / E4 | 0.07 | E62.C81-402E[1/4]0 | 72 / FB3 |
| 12 | 6.2 | 110 | 12.0 | 16 | 0.3 | 0.8 | 11.8 | 45 × 85 | B2 | 0.14 | E62.F85-123B20 | 21 / FB1 |
| 15 | 4.6 | 80 | 10.5 | 25 | 0.3 | 0.9 | 14.7 | 50 × 85 | G1 | 0.18 | E62.G85-153G10 | 21 / FB2 |
| 16 | 4.5 | 100 | 10.5 | 30 | 0.4 | 1.1 | 15.7 | 50 × 85 | G1 | 0.18 | E62.G85-163G10 | 21 / FB2 |
| 25 | 3.9 | 100 | 7.2 | 40 | 0.6 | 1.7 | 24.5 | 65 × 95 | G1 | 0.33 | E62.L95-253G10 | 10 / FB2 |
| 30 | 4.4 | 110 | 6.3 | 30 | 0.6 | 1.7 | 29.4 | 65 × 109 | G1 | 0.4 | E62.L10-303G10 | 10 / FB1 |
| 33 | 2.7 | 110 | 5.7 | 38 | 0.8 | 2.3 | 32.3 | 75 × 105 | L1 | 0.5 | E62.M10-333L10 | 8 / FB1 |
| 40 | 2.1 | 110 | 4.2 | 30 | 0.9 | 2.7 | 39.2 | 60 × 176 | K1 | 0.5 | E62.M17-403K10 | 5 / FB8 |
| 47 | 2.2 | 110 | 5.0 | 43 | 1.1 | 3.2 | 46.1 | 85 × 105 | L1 | 0.6 | E62.N10-473L10 | 10 / FB10 |
| 55 | 6.0 | 130 | 4.3 | 16 | 0.6 | 1.8 | 53.9 | 65 × 160 | D2 ¹⁾ | 0.6 | E62.L16-553D20 | 10 / FB7 |
| 60 | 1.4 | 110 | 4.5 | 43 | 1.4 | 4.1 | 58.8 | 95 × 105 | L1 | 0.8 | E62.P10-603L10 | 6 / FB10 |
| 68 | 5.4 | 100 | 3.7 | 16 | 0.74 | 2.2 | 66.6 | 75 × 160 | D2 ¹⁾ | 0.7 | E62.M16-683D20 | 8 / FB7 |
| 70 | 1.6 | 110 | 3.4 | 30 | 1.6 | 4.8 | 68.6 | 75 × 176 | K1 | 0.8 | E62.M17-703K10 | 5 / FB8 |
| 120 | 0.74 | 160 | 2.7 | 80 | 2.7 | 8.2 | 117.6 | 95 × 176 | C6 | 1.3 | E62.P17-124C60 | 3 / FB8 |
| 130 | 0.71 | 160 | 2.5 | 80 | 3.0 | 8.9 | 127.4 | 100 × 176 | C6 | 1.5 | E62.Q17-134C60 | 3 / FB8 |
| 180 | 0.63 | 160 | 2.2 | 80 | 4.1 | 12.3 | 176.4 | 116 × 176 | C6 | 2.0 | E62.R17-184C60 | 3 / FB8 |
| 270 | 0.62 | 170 | 1.6 | 100 | 6.2 | 18.6 | 264.6 | 116 × 245 | C6 | 2.7 | E62.R24-274C60 | 3 / FB12 |

1) U_N DC ≤ 1200V

E62.***

AC/DC

420...5000V AC / 700...5000V DC



| C _N (μF) | R _s (mΩ) | L _e (nH) | R _{th} (K/W) | I _{max} (A) | Î (kA) | I _s (kA) | W _N (Ws) | D ₁ × L ₁ (mm) | Design Maßbild | m (kg) | order no. Bestell-Nr. | pcs / box Stk / Box |
|--|------------------------|------------------------|-----------------------------|-----------------------------|----------------------------|----------------------------|--------------------------------|---|--------------------------------|--------------------------------|--------------------------|------------------------|
| U_N 1400V DC / 850V AC | | | | U_{rms} 600V | | U_s 2100V | | U_{BB} 2100V DC | | U_{BG} 3000V AC | | |
| 400 | 0.58 | 170 | 1.3 | 100 | 9.2 | 20 | 392.0 | 136 × 245 | C6 | 3.7 | E62.S24-404C60 | 2 / FB12 |
| 500 | 0.4 | 190 | 1.0 | 100 | 11.4 | 20 | 490.0 | 136 × 320 | C6 | 4.9 | E62.S32-504C60 | 2 / FB13 |
| U_N 1680V DC / 1000V AC | | | | U_{rms} 720V | | U_s 2500V | | U_{BB} 2520V DC | | U_{BG} 3500V AC | | |
| 1.5 | 5.0 | 60 | 25.6 | 10 | 0.3 | 0.9 | 2.1 | 30 × 58 | E1 ¹⁾ / E4 | 0.05 | E62.C58-152E[1/4]0 | 72 / FB4 |
| 2.2 | 3.8 | 60 | 21.9 | 16 | 0.25 | 0.8 | 1.6 | 35 × 58 | E2 ¹⁾ | 0.07 | E62.D58-222E20 | 50 / FB4 |
| 3.0 | 7.2 | 80 | 18.3 | 10 | 0.35 | 1.05 | 4.2 | 30 × 81 | E1 ¹⁾ / E4 | 0.07 | E62.C81-302E[1/4]0 | 72 / FB3 |
| 4.0 | 5.8 | 80 | 15.7 | 10 | 0.45 | 1.35 | 2.9 | 35 × 81 | E2 ¹⁾ | 0.1 | E62.D81-402E20 | 50 / FB3 |
| 5.0 | 5.0 | 80 | 14.0 | 16 | 0.6 | 1.8 | 3.6 | 40 × 81 | D1 ¹⁾ | 0.11 | E62.E81-502D10 | 36 / FB3 |
| 6.8 | 4.1 | 80 | 12.2 | 16 | 0.8 | 2.4 | 4.9 | 45 × 81 | D1 ¹⁾ | 0.14 | E62.F81-682D10 | 32 / FB3 |
| 8.0 | 5.0 | 110 | 11.6 | 16 | 0.5 | 1.4 | 11.3 | 45 × 85 | B2 | 0.14 | E62.F85-802B20 | 21 / FB1 |
| 10 | 3.6 | 100 | 10.5 | 32 | 0.6 | 1.7 | 14.1 | 50 × 85 | G1 | 0.18 | E62.G85-103G10 | 21 / FB2 |
| 12 | 3.0 | 110 | 9.5 | 30 | 0.7 | 2.1 | 16.9 | 55 × 85 | G1 | 0.21 | E62.H85-123G10 | 18 / FB1 |
| 15 | 2.7 | 110 | 8.7 | 16 | 0.9 | 2.6 | 10.8 | 60 × 85 | D1 ¹⁾ | 0.25 | E62.K85-153D10 | 18 / FB3 |
| 16 | 3.3 | 110 | 7.2 | 40 | 0.95 | 2.9 | 22.6 | 65 × 95 | G1 | 0.33 | E62.L95-163G10 | 10 / FB2 |
| 18 | 3.2 | 100 | 7.2 | 40 | 1.0 | 3.1 | 25.4 | 65 × 95 | G1 | 0.33 | E62.L95-183G10 | 10 / FB2 |
| 20 | 6.2 | 120 | 5.9 | 25 | 0.5 | 1.5 | 28.2 | 50 × 151 | G1 | 0.35 | E62.G15-203G10 | 21 / FB7 |
| 20 | 1.2 | 140 | 5.7 | 50 | 1.2 | 3.5 | 28.2 | 75 × 105 | C6 | 0.5 | E62.M10-203C60 | 8 / FB0 |
| 28 | 0.94 | 140 | 5.0 | 50 | 1.6 | 4.9 | 39.5 | 85 × 105 | C6 | 0.6 | E62.N10-283C60 | 10 / FB10 |
| 28 | 1.7 | 110 | 4.2 | 30 | 1.6 | 4.8 | 39.5 | 60 × 176 | K1 | 0.5 | E62.K17-283K10 | 10 / FB8 |
| 33 | 0.85 | 140 | 4.5 | 50 | 1.9 | 5.7 | 46.6 | 95 × 105 | C6 | 0.8 | E62.P10-333C60 | 6 / FB10 |
| 38 | 4.8 | 140 | 4.3 | 20 | 1.0 | 3.0 | 53.6 | 65 × 160 | D2 ¹⁾ | 0.6 | E62.L16-383D20 | 10 / FB7 |
| 46 | 1.4 | 110 | 3.4 | 30 | 2.6 | 7.8 | 64.9 | 75 × 176 | K1 | 0.8 | E62.M17-463K10 | 5 / FB8 |
| 53 | 4.3 | 130 | 3.7 | 20 | 1.4 | 4.2 | 74.8 | 75 × 160 | D2 ¹⁾ | 0.7 | E62.M16-533D20 | 8 / FB7 |
| 68 | 0.65 | 160 | 2.7 | 80 | 3.9 | 11.7 | 96.0 | 95 × 176 | C6 | 1.3 | E62.P17-683C60 | 3 / FB8 |
| 80 | 0.61 | 160 | 2.5 | 80 | 4.6 | 13.8 | 112.9 | 100 × 176 | C6 | 1.5 | E62.Q17-803C60 | 3 / FB8 |
| 120 | 0.54 | 160 | 2.2 | 80 | 7.0 | 20 | 169.3 | 116 × 176 | C6 | 2.0 | E62.R17-124C60 | 3 / FB8 |
| 180 | 0.57 | 170 | 1.6 | 100 | 10.4 | 20 | 254.0 | 116 × 245 | C6 | 2.7 | E62.R24-184C60 | 3 / FB12 |
| 220 | 0.64 | 180 | 1.2 | 100 | 14.2 | 20 | 310.5 | 116 × 320 | C6 | 3.5 | E62.R32-224C60 | 3 / FB13 |
| 250 | 0.54 | 170 | 1.3 | 100 | 14.5 | 20 | 352.8 | 136 × 245 | C6 | 3.7 | E62.S24-254C60 | 2 / FB12 |
| 330 | 0.61 | 190 | 1.0 | 100 | 15 | 20 | 465.7 | 136 × 320 | C6 | 4.9 | E62.S32-334C60 | 2 / FB13 |
| U_N 1200V AC | | | U_{rms} 850V | | U_s 2100V | | U_{BB} 2580V DC | | U_{BG} 3000V AC | | | |
| 0.1 | 15.0 | 60 | 30.7 | 8 | 0.10 | 0.3 | 0.1 | 25 × 58 | E1 | 0.05 | E62.B58-101E10 | 98 / FB4 |
| 0.15 | 10.4 | 60 | 25.6 | 8 | 0.10 | 0.3 | 0.1 | 30 × 58 | E1 | 0.05 | E62.C58-151E10 | 72 / FB4 |
| 0.22 | 7.5 | 60 | 25.6 | 10 | 0.20 | 0.6 | 0.2 | 30 × 58 | E1 | 0.05 | E62.C58-221E10 | 72 / FB4 |
| 0.33 | 6.5 | 60 | 25.6 | 10 | 0.20 | 0.6 | 0.2 | 30 × 58 | E1 | 0.05 | E62.C58-331E10 | 72 / FB4 |
| 0.47 | 8.2 | 60 | 25.6 | 10 | 0.20 | 0.6 | 0.3 | 30 × 58 | E1 | 0.05 | E62.C58-471E10 | 72 / FB4 |
| 0.5 | 5.9 | 60 | 25.6 | 10 | 0.16 | 0.48 | 0.4 | 30 × 58 | E1 | 0.05 | E62.C58-501E10 | 72 / FB4 |
| 0.68 | 6.6 | 60 | 25.6 | 10 | 0.22 | 0.7 | 0.5 | 30 × 58 | E1 | 0.05 | E62.C58-681E10 | 72 / FB4 |
| 1.0 | 6.0 | 60 | 25.6 | 10 | 0.25 | 0.8 | 0.7 | 30 × 58 | E1 | 0.05 | E62.C58-102E10 | 72 / FB4 |
| 1.5 | 9.9 | 60 | 18.3 | 10 | 0.23 | 0.7 | 1.1 | 30 × 81 | E1 | 0.07 | E62.C81-152E10 | 72 / FB3 |
| 2.0 | 8.7 | 60 | 18.3 | 10 | 0.25 | 0.8 | 1.4 | 30 × 81 | E1 | 0.07 | E62.C81-202E10 | 72 / FB3 |

1) U_N DC ≤ 1200V

Other values and dimensions available on request_Andere Werte und Abmessungen auf Anfrage erhältlich



E62.***

AC/DC

420...5000V AC / 700...5000V DC

| C_N (μ F) | R_S (m Ω) | L_e (nH) | R_{th} (K/W) | I_{max} (A) | \hat{I} (kA) | I_S (kA) | W_N (Ws) | $D_1 \times L_1$ (mm) | Design Maßbild | m (kg) | order no. Bestell-Nr. | pcs / box Stk / Box |
|---|------------------------|----------------------------------|-------------------|-------------------------------|-------------------|-------------------------------------|---------------|-------------------------------------|-------------------|-----------|--------------------------|------------------------|
| U_N 1200V AC | | U_{rms} 850V | | U_S 2100V | | U_{BB} 2580V DC | | U_{BG} 3000V AC | | | | |
| 2.2 | 11.1 | 90 | 16.0 | 10 | 0.2 | 0.6 | 1.6 | 30 × 93 | E1 | 0.08 | E62.C93-222E10 | 72 / FB3 |
| 4.0 | 5.2 | 80 | 13.8 | 16 | 0.3 | 0.9 | 2.9 | 40 × 81 | D1 | 0.11 | E62.E81-402D10 | 36 / FB3 |
| 4.7 | 4.7 | 60 | 13.8 | 16 | 0.42 | 1.3 | 3.4 | 40 × 81 | D1 | 0.11 | E62.E81-472D10 | 36 / FB3 |
| 5.0 | 4.5 | 80 | 12.2 | 16 | 0.35 | 1.1 | 3.6 | 45 × 81 | D1 | 0.14 | E62.F81-502D10 | 32 / FB3 |
| 5.75 | 3.8 | 80 | 10.5 | 16 | 0.5 | 1.5 | 4.1 | 50 × 85 | D1 | 0.18 | E62.G85-582D10 | 21 / FB3 |
| 6.8 | 3.7 | 80 | 10.5 | 16 | 0.5 | 1.5 | 4.9 | 50 × 85 | D1 | 0.18 | E62.G85-682D10 | 21 / FB3 |
| 10 | 3.1 | 80 | 8.7 | 16 | 0.7 | 2.1 | 7.2 | 60 × 85 | D1 | 0.25 | E62.K85-103D10 | 18 / FB3 |
| 15 | 4.7 | 100 | 6.5 | 16 | 0.6 | 1.8 | 10.8 | 55 × 124 | D1 | 0.3 | E62.H12-153D10 | 18 / FB1 |
| 22 | 5.4 | 100 | 4.9 | 16 | 1.2 | 3.6 | 15.8 | 60 × 151 | D1 | 0.4 | E62.K15-223D10 | 18 / FB0 |
| 30 | 4.5 | 130 | 4.3 | 16 | 1.0 | 3.0 | 21.6 | 65 × 160 | D2 | 0.6 | E62.L16-303D20 | 10 / FB7 |
| 33 | 4.8 | 120 | 3.7 | 16 | 0.93 | 2.79 | 23.8 | 75 × 160 | D2 | 0.7 | E62.M16-333D20 | 10 / FB7 |
| 40 | 4.5 | 130 | 3.7 | 16 | 1.2 | 3.6 | 28.8 | 75 × 160 | D2 | 0.7 | E62.M16-403D20 | 8 / FB7 |
| U_N 2000V DC / 1200V AC | | U_{rms} 850V | | U_S 3000V | | U_{BB} 3000V DC | | U_{BG} 4000V AC | | | | |
| 0.5 | 5.9 | 60 | 25.6 | 10 | 0.16 | 0.5 | 1.0 | 30 × 58 | E4 | 0.07 | E62.C58-501E40 | 50 / FB4 |
| 1.0 | 6.0 | 60 | 25.6 | 10 | 0.25 | 0.8 | 2.0 | 30 × 58 | E4 | 0.07 | E62.C58-102E40 | 50 / FB4 |
| 2.0 | 8.7 | 60 | 18.3 | 10 | 0.25 | 0.8 | 4.0 | 30 × 81 | E4 | 0.09 | E62.C81-202E40 | 50 / FB2 |
| 2.2 | 11.1 | 90 | 16.0 | 10 | 0.2 | 0.6 | 4.4 | 30 × 93 | E4 | 0.08 | E62.C93-222E40 | 50 / FB2 |
| 3.3 | 4.0 | 80 | 14.4 | 16 | 0.8 | 2.4 | 6.6 | 50 × 62 | B2 | 0.15 | E62.G62-332B20 | 21 / FB2 |
| 6.8 | 3.7 | 100 | 10.5 | 33 | 0.5 | 1.5 | 13.6 | 50 × 85 | G1 | 0.18 | E62.G85-682G10 | 21 / FB2 |
| 10 | 3.7 | 100 | 7.2 | 40 | 0.7 | 2.1 | 20.0 | 65 × 95 | G1 | 0.33 | E62.L95-103G10 | 10 / FB2 |
| 15 | 3.9 | 120 | 6.3 | 40 | 0.8 | 2.4 | 30.0 | 65 × 109 | G1 | 0.4 | E62.L10-153G10 | 10 / FB1 |
| 20 | 4.7 | 120 | 5.1 | 30 | 0.8 | 2.4 | 40.0 | 65 × 135 | G1 | 0.47 | E62.L13-203G11 | 10 / FB0 |
| 30 | 5.3 | 130 | 4.3 | 40 | 1.0 | 3.0 | 60.0 | 65 × 160 | G1 | 0.6 | E62.L16-303G10 | 10 / FB7 |
| 32 | 0.79 | 140 | 4.2 | 50 | 2.0 | 6.0 | 64.0 | 100 × 105 | C6 | 0.9 | E62.Q10-323C60 | 6 / FB10 |
| 35 | 1.5 | 110 | 3.4 | 30 | 2.3 | 6.9 | 70.0 | 75 × 176 | K1 | 0.8 | E62.M17-353K10 | 5 / FB8 |
| 40 | 0.76 | 160 | 3.0 | 80 | 2.7 | 8.1 | 80.0 | 85 × 176 | C6 | 1.2 | E62.N17-403C60 | 5 / FB8 |
| 100 | 1.0 | 150 | 2.2 | 80 | 3.2 | 9.6 | 200.0 | 116 × 176 | C6 | 2.0 | E62.R17-104C60 | 3 / FB8 |
| U_N 2250V DC / 1350V AC | | U_{rms} 960V | | U_S 3300V | | U_{BB} 3375V DC | | U_{BG} 4200V AC | | | | |
| 1.5 | 9.9 | 80 | 18.3 | 10 | 0.2 | 0.7 | 3.8 | 30 × 81 | E4 | 0.09 | E62.C81-152E40 | 50 / FB2 |
| 4.0 | 6.0 | 130 | 11.6 | 16 | 0.32 | 1.0 | 10.1 | 45 × 85 | B2 | 0.14 | E62.F85-402B20 | 21 / FB1 |
| 4.0 | 5.0 | 120 | 10.5 | 26 | 0.32 | 0.96 | 10.1 | 50 × 85 | G1 | 0.18 | E62.G85-402G10 | 21 / FB2 |
| 5.0 | 4.4 | 100 | 10.5 | 25 | 0.4 | 1.2 | 12.7 | 50 × 85 | G1 | 0.18 | E62.G85-502G10 | 21 / FB2 |
| 6.8 | 4.0 | 110 | 9.5 | 25 | 0.5 | 1.6 | 17.2 | 55 × 85 | G1 | 0.21 | E62.H85-682G10 | 18 / FB1 |
| 7.5 | 3.0 | 110 | 7.1 | 30 | 0.6 | 1.7 | 18.9 | 60 × 105 | K1 | 0.3 | E62.K10-752K10 | 10 / FB1 |
| 10 | 1.6 | 140 | 5.7 | 45 | 0.8 | 2.3 | 25.3 | 75 × 105 | C6 | 0.5 | E62.M10-103C60 | 8 / FB0 |
| 13 | 2.3 | 110 | 5.7 | 30 | 1.0 | 2.9 | 32.9 | 75 × 105 | K1 | 0.5 | E62.M10-133K10 | 5 / FB0 |
| 15 | 1.2 | 120 | 5.0 | 50 | 1.1 | 3.3 | 38.0 | 85 × 105 | C6 | 0.6 | E62.N10-153C60 | 10 / FB10 |
| 16 | 1.1 | 140 | 5.0 | 50 | 1.2 | 3.7 | 40.5 | 85 × 105 | C6 | 0.6 | E62.N10-163C60 | 10 / FB10 |
| 20 | 0.96 | 140 | 4.5 | 50 | 1.5 | 4.6 | 50.6 | 95 × 105 | C6 | 0.8 | E62.P10-203C60 | 6 / FB10 |
| 22 | 0.97 | 160 | 3.4 | 80 | 1.9 | 5.7 | 55.7 | 75 × 176 | C6 | 0.8 | E62.M17-223C60 | 5 / FB8 |
| 40 | 0.71 | 160 | 2.7 | 80 | 3.1 | 9.3 | 101.3 | 95 × 176 | C6 | 1.3 | E62.P17-403C60 | 3 / FB8 |
| 47 | 0.67 | 160 | 2.5 | 80 | 3.6 | 10.8 | 119.0 | 100 × 176 | C6 | 1.5 | E62.Q17-473C60 | 3 / FB8 |



E62.***

AC/DC

420...5000V AC / 700...5000V DC



| C_N (μF) | R_s ($\text{m}\Omega$) | L_e (nH) | R_{th} (K/W) | I_{max} (A) | \hat{I} (kA) | I_s (kA) | W_N (Ws) | $D_1 \times L_1$ (mm) | Design Maßbild | m (kg) | order no. Bestell-Nr. | pcs / box Stk / Box |
|---|-------------------------------|--------------------------|------------------------------|-----------------------------------|------------------------------|-------------------------------|--------------------------|-------------------------------------|-------------------|-------------------------------------|--------------------------|------------------------|
| U_N 2250V DC / 1350V AC | | | | U_{rms} 960V | | U_s 3300V | | U_{BB} 3375V DC | | U_{BG} 4200V AC | | |
| 68 | 0.59 | 160 | 2.2 | 80 | 5.3 | 15.9 | 172.1 | 116 × 176 | C6 | 2.0 | E62.R17-683C60 | 3 / FB8 |
| 100 | 0.6 | 170 | 1.6 | 100 | 7.7 | 20 | 253.1 | 116 × 245 | C6 | 2.7 | E62.R24-104C60 | 3 / FB12 |
| 150 | 0.56 | 170 | 1.3 | 100 | 11.6 | 20 | 379.7 | 136 × 245 | C6 | 3.7 | E62.S24-154C60 | 2 / FB12 |
| 200 | 0.62 | 190 | 1.0 | 100 | 15 | 20 | 506.3 | 136 × 320 | C6 | 4.9 | E62.S32-204C60 | 2 / FB13 |
| U_N 2800V DC / 1700V AC | | | | U_{rms} 1200V | | U_s 4200V | | U_{BB} 4200V DC | | U_{BG} 5000V AC | | |
| 0.33 | 6.5 | 60 | 25.6 | 10 | 0.2 | 0.6 | 1.3 | 30 × 58 | E4 | 0.07 | E62.C58-331E40 | 50 / FB4 |
| 0.47 | 8.2 | 60 | 25.6 | 10 | 0.2 | 0.6 | 1.8 | 30 × 58 | E4 | 0.07 | E62.C58-471E40 | 50 / FB4 |
| 1.0 | 11.5 | 80 | 18.3 | 10 | 0.2 | 0.6 | 3.9 | 30 × 81 | E4 | 0.09 | E62.C81-102E40 | 50 / FB2 |
| 1.0 | 5.8 | 150 | 16.0 | 16 | 0.4 | 1.2 | 3.9 | 45 × 62 | B2 | 0.10 | E62.F62-102B20 | 21 / FB3 |
| 2.2 | 7.3 | 80 | 11.6 | 10 | 0.2 | 0.6 | 8.6 | 45 × 85 | B2 | 0.14 | E62.F85-222B20 | 21 / FB1 |
| 2.5 | 6.8 | 120 | 11.6 | 16 | 0.2 | 0.7 | 9.8 | 45 × 85 | B2 | 0.14 | E62.F85-252B20 | 21 / FB1 |
| 3.3 | 5.9 | 120 | 10.5 | 16 | 0.3 | 1.0 | 12.9 | 50 × 85 | B2 | 0.17 | E62.G85-332B20 | 21 / FB1 |
| 4.0 | 2.8 | 140 | 5.7 | 48 | 0.8 | 1.8 | 15.7 | 75 × 105 | C6 | 0.5 | E62.M10-402C60 | 8 / FB0 |
| 4.7 | 5.0 | 120 | 9.5 | 16 | 0.5 | 1.4 | 18.4 | 55 × 85 | B2 | 0.21 | E62.H85-472B20 | 18 / FB2 |
| 6.8 | 1.8 | 140 | 5.7 | 46 | 0.7 | 2.0 | 26.7 | 75 × 105 | C6 | 0.5 | E62.M10-682C60 | 8 / FB0 |
| 10 | 1.3 | 140 | 5.0 | 50 | 1.0 | 2.9 | 39.2 | 85 × 105 | C6 | 0.6 | E62.N10-103C60 | 10 / FB10 |
| 12 | 1.2 | 140 | 4.5 | 50 | 1.2 | 3.5 | 47.0 | 95 × 105 | C6 | 0.8 | E62.P10-123C60 | 6 / FB10 |
| 25 | 0.8 | 160 | 2.7 | 80 | 2.4 | 7.3 | 98.0 | 95 × 176 | C6 | 1.3 | E62.P17-253C60 | 3 / FB8 |
| 30 | 0.73 | 160 | 2.5 | 80 | 2.9 | 8.7 | 117.6 | 100 × 176 | C6 | 1.5 | E62.Q17-303C60 | 3 / FB8 |
| 40 | 0.65 | 160 | 2.2 | 80 | 3.9 | 11.7 | 156.8 | 116 × 176 | C6 | 2.0 | E62.R17-403C60 | 3 / FB8 |
| 50 | 1.6 | 150 | 2.2 | 80 | 2.3 | 6.9 | 196.0 | 116 × 176 | C6 | 2.0 | E62.R17-503C60 | 3 / FB8 |
| 60 | 0.64 | 170 | 1.6 | 100 | 5.8 | 17.4 | 235.2 | 116 × 245 | C6 | 2.7 | E62.R24-603C60 | 3 / FB12 |
| 90 | 0.58 | 170 | 1.3 | 100 | 8.7 | 20 | 352.8 | 136 × 245 | C6 | 3.7 | E62.S24-903C60 | 2 / FB12 |
| 125 | 0.64 | 190 | 1.0 | 100 | 12.1 | 20 | 490.0 | 136 × 320 | C6 | 4.9 | E62.S32-134C60 | 2 / FB13 |
| U_N 3400V DC / 2000V AC | | | | U_{rms} 1400V | | U_s 5100V | | U_{BB} 5100V DC | | U_{BG} 5800V AC | | |
| 10 | 2.1 | 170 | 3.4 | 40 | 1.2 | 3.5 | 57.8 | 75 × 176 | C6 | 0.8 | E62.M17-103C60 | 5 / FB8 |
| 15 | 1.6 | 170 | 2.7 | 40 | 1.0 | 3.1 | 86.7 | 95 × 176 | C6 | 1.3 | E62.P17-153C60 | 3 / FB8 |
| 20 | 1.3 | 160 | 2.5 | 50 | 2.3 | 7.0 | 115.6 | 100 × 176 | C6 | 1.5 | E62.Q17-203C60 | 3 / FB8 |
| 30 | 1.0 | 160 | 2.2 | 50 | 3.6 | 10.8 | 173.4 | 116 × 176 | C6 | 2.0 | E62.R17-303C60 | 3 / FB8 |
| 40 | 1.1 | 190 | 1.2 | 80 | 4.6 | 13.8 | 231.2 | 116 × 320 | C6 | 3.5 | E62.R32-403C60 | 3 / FB13 |
| 60 | 1.0 | 180 | 1.2 | 100 | 6.0 | 18.0 | 346.8 | 116 × 320 | C6 | 3.5 | E62.R32-603C60 | 3 / FB13 |
| 90 | 1.0 | 190 | 1.0 | 100 | 9.7 | 20 | 520.2 | 136 × 320 | C6 | 4.9 | E62.S32-903C60 | 2 / FB13 |

Other values and dimensions available on request_Andere Werte und Abmessungen auf Anfrage erhältlich



E62.***

AC/DC

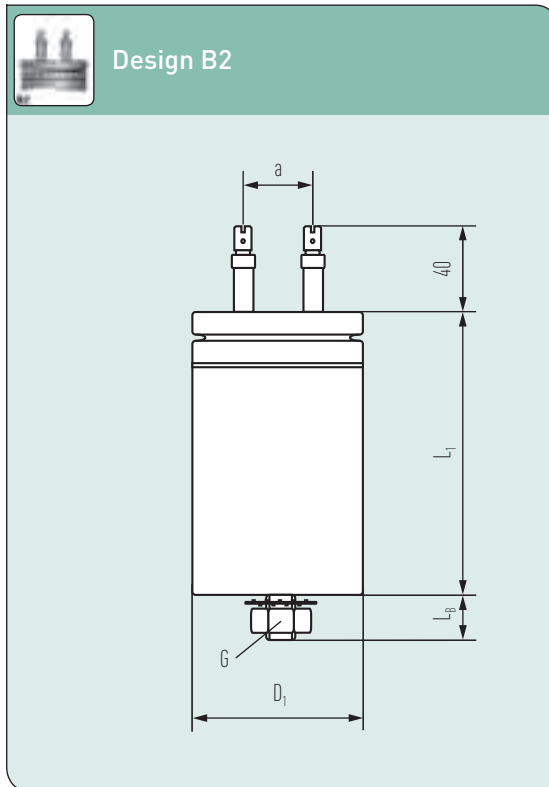
420...5000V AC / 700...5000V DC

| C_N (μ F) | R_S ($m\Omega$) | L_e (nH) | R_{th} (K/W) | I_{max} (A) | \hat{I} (kA) | I_S (kA) | W_N (Ws) | $D_1 \times L_1$ (mm) | Design Maßbild | m (kg) | order no. Bestell-Nr. | pcs / box Stk / Box |
|---|------------------------|-----------------------------------|-------------------|-----------------------------------|-------------------------------|---------------|-------------------------------|-------------------------------------|-------------------------------------|-----------|-------------------------------------|------------------------|
| U_N 3600V DC / 2100V AC | | | | U_{rms} 1500V | | | U_S 5400V | | U_{BB} 5400V DC | | U_{BG} 6200V AC | |
| 0.1 | 12.7 | 60 | 25.6 | 9 | 0.10 | 0.3 | 0.6 | 30 × 58 | E4 | 0.07 | E62.C58-101E40 | 50 / FB4 |
| 0.15 | 10.4 | 60 | 25.6 | 9 | 0.10 | 0.3 | 1.0 | 30 × 58 | E4 | 0.07 | E62.C58-151E40 | 50 / FB4 |
| 0.22 | 7.5 | 60 | 25.6 | 10 | 0.20 | 0.6 | 1.4 | 30 × 58 | E4 | 0.07 | E62.C58-221E40 | 50 / FB4 |
| 0.47 | 5.7 | 100 | 16.0 | 16 | 0.40 | 1.2 | 3.0 | 45 × 62 | B2 | 0.10 | E62.F62-471B21 | 21 / FB3 |
| 0.68 | 4.7 | 100 | 14.4 | 16 | 0.5 | 1.5 | 4.4 | 50 × 62 | B2 | 0.15 | E62.G62-681B20 | 21 / FB2 |
| 1.0 | 7.4 | 140 | 9.4 | 16 | 0.8 | 2.4 | 6.5 | 45 × 105 | B2 | 0.18 | E62.F10-102B21 | 21 / FB1 |
| 1.5 | 5.7 | 120 | 7.7 | 16 | 1.2 | 3.6 | 9.7 | 55 × 105 | B2 | 0.26 | E62.H10-152B20 | 18 / FB0 |
| 33 | 1.2 | 150 | 1.9 | 80 | 3.3 | 9.9 | 213.8 | 116 × 205 | C6 | 2.4 | E62.R20-333C60 | 3 / FB9 |
| 40 | 1.1 | 180 | 1.2 | 100 | 5.4 | 16.2 | 259.2 | 116 × 320 | CR | 3.5 | E62.R32-403CR0 | 3 / FB13 |
| U_N 4000V DC / 2400V AC | | | | U_{rms} 1700V | | | U_S 6000V | | U_{BB} 6000V DC | | U_{BG} 6800V AC | |
| 2.0 | 5.6 | 120 | 8.5 | 16 | 0.5 | 1.5 | 16.0 | 50 × 105 | B2 | 0.24 | E62.G10-202B20 | 21 / FB0 |
| 4.0 | 7.5 | 190 | 5.3 | 16 | 0.6 | 1.8 | 32.0 | 55 × 151 | B2 | 0.4 | E62.H15-402B20 | 12 / FB8 |
| 6.8 | 2.5 | 160 | 3.4 | 40 | 0.9 | 2.8 | 54.4 | 75 × 176 | C6 | 0.8 | E62.M17-682C60 | 5 / FB8 |
| 10 | 1.9 | 170 | 3.0 | 40 | 1.4 | 4.2 | 80.0 | 85 × 176 | C6 | 1.2 | E62.N17-103C60 | 5 / FB8 |
| 22 | 1.1 | 160 | 2.2 | 50 | 2.8 | 8.7 | 176.0 | 116 × 176 | CR | 2.0 | E62.R17-223CR0 | 3 / FB8 |
| U_N 5000V DC / 4000V AC | | | | U_{rms} 2800V | | | U_S 7500V | | U_{BB} 8600V DC | | U_{BG} 8200V AC | |
| 0.1 | 9.6 | 100 | 12.2 | 16 | 0.4 | 1.2 | 1.3 | 45 × 81 | B2 | 0.14 | E62.F81-101B20 | 21 / FB1 |
| 0.15 | 7.0 | 90 | 12.2 | 16 | 0.5 | 1.5 | 1.9 | 45 × 81 | B2 | 0.14 | E62.F81-151B20 | 21 / FB1 |
| 0.22 | 14.5 | 140 | 9.4 | 16 | 0.4 | 1.3 | 2.8 | 45 × 105 | B2 | 0.18 | E62.F10-221B21 | 21 / FB1 |
| 0.33 | 14.0 | 140 | 9.4 | 16 | 0.3 | 0.9 | 4.1 | 45 × 105 | B2 | 0.18 | E62.F10-331B20 | 21 / FB1 |
| 0.47 | 10.8 | 140 | 9.4 | 16 | 0.37 | 1.1 | 5.9 | 45 × 105 | B2 | 0.18 | E62.F10-471B20 | 21 / FB1 |
| 0.68 | 8.5 | 120 | 7.7 | 16 | 0.5 | 1.5 | 8.5 | 55 × 105 | B2 | 0.26 | E62.H10-681B20 | 18 / FB0 |
| 1.0 | 3.9 | 150 | 5.0 | 40 | 0.8 | 2.4 | 12.5 | 75 × 120 | CR | 0.6 | E62.M12-102CR0 | 10 / FB13 |
| 2.2 | 2.0 | 150 | 3.9 | 40 | 1.7 | 5.1 | 27.5 | 95 × 120 | CR | 0.9 | E62.P12-222CR0 | 6 / FB13 |
| 4.7 | 1.2 | 170 | 2.3 | 40 | 3.7 | 11.1 | 58.8 | 95 × 205 | CR | 1.6 | E62.P20-472CR0 | 3 / FB9 |
| 6.0 | 0.8 | 160 | 1.9 | 80 | 4.7 | 14.1 | 75.0 | 116 × 205 | CR | 2.7 | E62.R20-602CR0 | 3 / FB9 |
| 10 | 2.6 | 180 | 1.4 | 50 | 6.0 | 18.0 | 125.0 | 116 × 280 | CR | 3.1 | E62.R28-103CR0 | 3 / FB10 |
| U_N 5000V AC | | U_{rms} 3500V | | | U_S 7500V | | | U_{BB} 8750V DC | | | | |
| 0.33 | 8.7 | 140 | 6.2 | 16 | 0.73 | 2.19 | 4.1 | 60 × 120 | CD | 0.3 | E62.K12-331C00 | 18 / FB7 |
| 0.47 | 7.1 | 140 | 6.2 | 16 | 0.92 | 2.76 | 5.9 | 60 × 120 | CD | 0.3 | E62.K12-471C00 | 18 / FB7 |
| 0.68 | 8.9 | 140 | 5.3 | 16 | 0.94 | 2.82 | 8.5 | 60 × 140 | CD | 0.4 | E62.K14-681C00 | 12 / FB8 |
| 1.0 | 6.5 | 140 | 4.2 | 16 | 1.39 | 4.17 | 12.5 | 75 × 140 | CD | 0.6 | E62.M14-102C00 | 5 / FB8 |
| 1.5 | 4.8 | 140 | 3.7 | 16 | 2.08 | 6.24 | 18.8 | 85 × 140 | CD | 0.8 | E62.N14-152C00 | 5 / FB8 |
| 2.0 | 3.9 | 140 | 3.4 | 16 | 2.77 | 8.31 | 25.0 | 95 × 140 | CD | 1.0 | E62.P14-202C00 | 3 / FB8 |





B2



CAPACITORS WITH A CAN DIAMETER OF 45...55 mm

- Can material aluminium
- Base mounting stud see chart
- Lid brass with rubber sealing, flanged can
- Terminals single tab connector 6.3 × 0.8 mm on
..... soldered ceramic bushing
- I_{max} (Terminals) 16 A
- Degree of protection IP 00
- Humidity class F

KONDENSATOREN MIT EINEM GEHÄUSEDURCHMESSER VON 45...55 mm

- Gehäusematerial Aluminium
- Bodenschraube siehe Tabelle
- Deckel Messing, Bördelverschluss
..... mit Gummidichtung
- Anschlüsse Flachstecker 6.3 × 0.8 mm auf eingelöteter
..... Keramikdurchführung
- I_{max} (Anschlüsse) 16 A
- Schutzgrad IP 00
- Feuchteklasse F

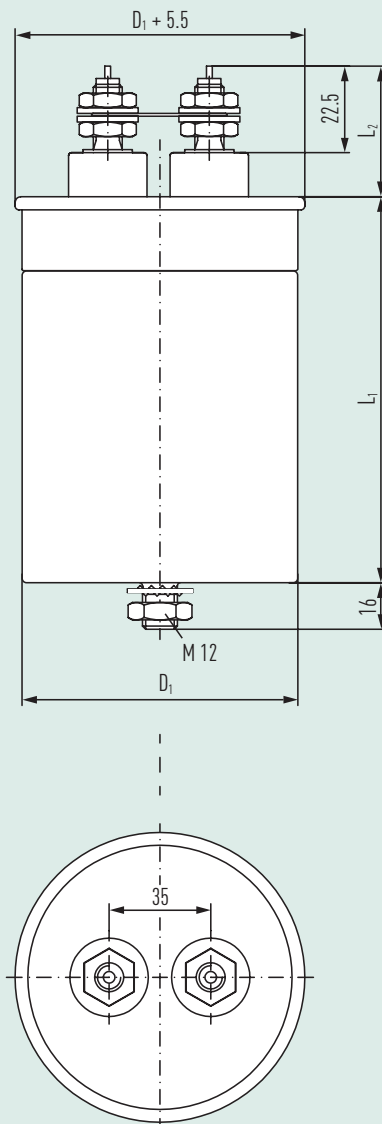
| D_1 | L_b | G | a | K | L |
|-------|-------|-----|----|----|----|
| 45 | 10 | M8 | 19 | 20 | 9 |
| 50 | 16 | M12 | 26 | 20 | 16 |
| 55 | 16 | M12 | 26 | 20 | 16 |



C6



Design C6



CAPACITORS WITH A CAN DIAMETER OF 75...136 mm

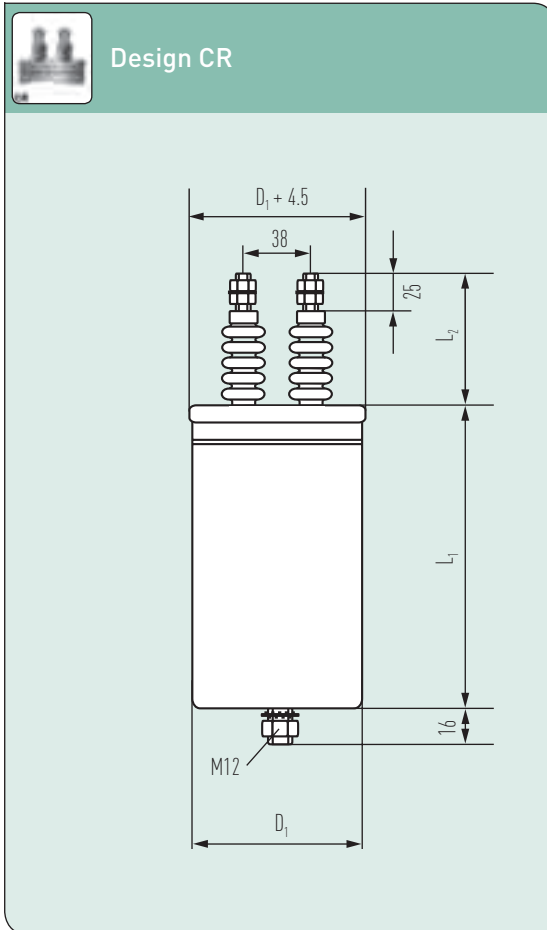
- Can material aluminium
- Base mounting stud M12
- Lid flanged aluminium (folded edge)
- Terminals threaded stud M10 on soldered
..... plastic bushing
- torque 9 Nm
- I_{max} (Terminals) 100 A
- Degree of protection IP 00
- K 25 mm
- L 15 mm
- Humidity class C

KONDENSATOREN MIT EINEM GEHÄUSEDURCHMESSER VON 75...136 mm

- Gehäusematerial Aluminium
- Bodenschraube M12
- Deckel Aluminium, Bördelverschluss
- Anschlüsse Gewindebolzen M10 auf eingelöteter
..... Kunststoffdurchführung
- Drehmoment 9 Nm
- I_{max} (Anschlüsse) 100 A
- Schutzgrad IP 00
- K 25 mm
- L 15 mm
- Feuchtklasse C

| D_1 | L_2 |
|-------|-------|
| 75 | 45 |
| 85 | 45 |
| 95 | 45 |
| 100 | 45 |
| 116 | 41 |
| 136 | 41 |





CAPACITORS WITH A CAN DIAMETER OF 75...136 mm

| | |
|-----------------------------|---------------------------------------|
| Can material | aluminium |
| Base mounting stud | M12 |
| Lid | flanged copper (folded edge) |
| Terminals | threaded stud M10 on soldered ceramic |
| | bushing |
| torque | 9 Nm |
| I_{max} (Terminals) | 100 A |
| Degree of protection | IP 00 |
| K | 54 mm |
| L | 17 mm |
| Humidity class | C |

KONDENSATOREN MIT EINEM GEHÄUSEDURCHMESSER VON 75...136 mm

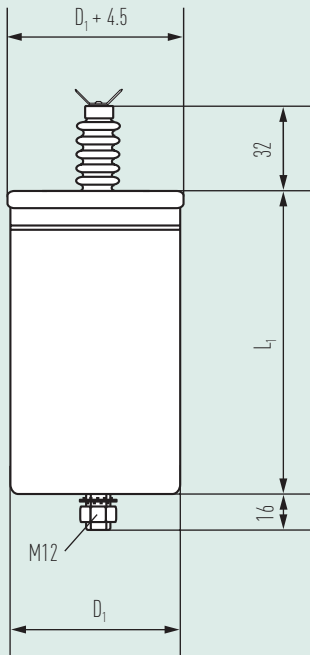
| | |
|------------------------------|------------------------------------|
| Gehäusematerial | Aluminium |
| Bodenschraube | M12 |
| Deckel | Kupfer, Bördelverschluss |
| Anschlüsse | Gewindebolzen M10 auf eingelöteter |
| | Keramikdurchführung |
| Drehmoment | 9 Nm |
| I_{max} (Anschlüsse) | 100 A |
| Schutzgrad | IP 00 |
| K | 54 mm |
| L | 17 mm |
| Feuchteklasse | C |

| D_1 | L_2 |
|-------|-------|
| 75 | 55 |
| 85 | 55 |
| 95 | 55 |
| 100 | 55 |
| 116 | 55 |
| 136 | 52 |

CD



Design CD



CAPACITORS WITH A CAN DIAMETER OF 60...95 mm

| | |
|-----------------------------|-------------------------------|
| Can material | aluminium |
| Base mounting stud | M12 |
| Lid | flanged copper (folded edge) |
| Terminals | dual tab connectors 6.3 × 0.8 |
| I_{max} (Terminals) | 16 A |
| Degree of protection | IP 00 |
| K | 54 mm |
| L | 35 mm |
| Humidity class | C |

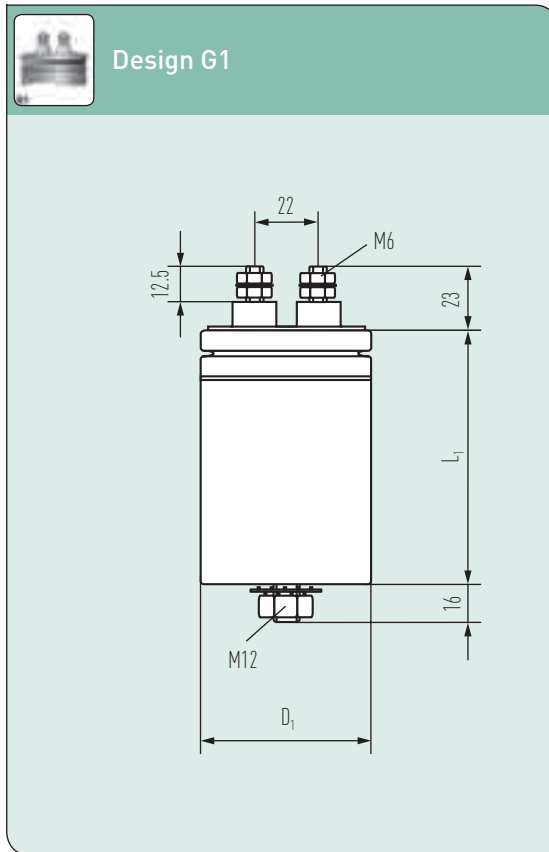
KONDENSATOREN MIT EINEM GEHÄUSEDURCHMESSER VON 60...95 mm

| | |
|------------------------------|-------------------------------|
| Gehäusematerial | Aluminium |
| Bodenschraube | M12 |
| Deckel | Kupfer, Bördelverschluss |
| Anschlüsse | Doppel Flachstecker 6.3 × 0.8 |
| I_{max} (Anschlüsse) | 16 A |
| Schutzgrad | IP 00 |
| K | 54 mm |
| L | 35 mm |
| Feuchteklasse | C |





G1



CAPACITORS WITH A CAN DIAMETER OF 50/55/65 mm

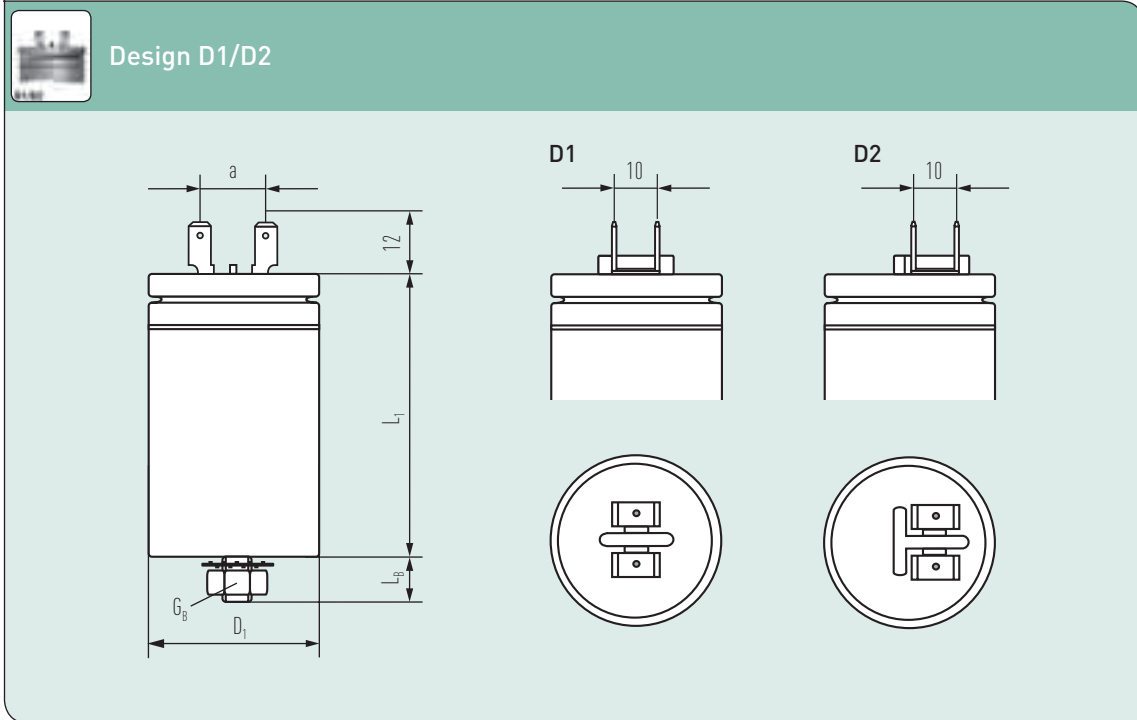
| | |
|-----------------------------|--|
| Can material | aluminium |
| Base mounting stud | M12 |
| Lid | plastic with rubber sealing, flanged can |
| Terminals | threaded stud M6 on integrated plastic |
| | bushing |
| torque | 2 Nm |
| I_{max} (Terminals) | 40 A |
| Degree of protection | IP 00 |
| L | 10 |
| Humidity class | F |

KONDENSATOREN MIT EINEM GEHÄUSEDURCHMESSER VON 50/55/65 mm

| | |
|------------------------------|-----------------------------------|
| Gehäusematerial | Aluminium |
| Bodenschraube | M12 |
| Deckel | Kunststoff, Bördelverschluss |
| | mit Gummidichtung |
| Anschlüsse | Gewindebolzen M6 auf integrierter |
| | Kunststoffdurchführung |
| Drehmoment | 2 Nm |
| I_{max} (Anschlüsse) | 40 A |
| Schutzgrad | IP 00 |
| L | 10 |
| Feuchteklasse | F |

| D_1 | K |
|-------|----|
| 50 | 15 |
| 55 | 16 |
| 65 | 21 |





D1 CAPACITORS WITH A CAN DIAMETER OF 35...60 mm

D2 CAPACITORS WITH A CAN DIAMETER OF 65...75 mm

- Can material aluminium
- Base mounting stud see chart
- Lid plastic with rubber sealing, flanged can
- Terminals dual tab connectors 6.3 × 0.8 mm
..... (tinned steel, riveted)
- I_{max} (Terminals) 16 A
- Degree of protection IP 00
- Humidity class F

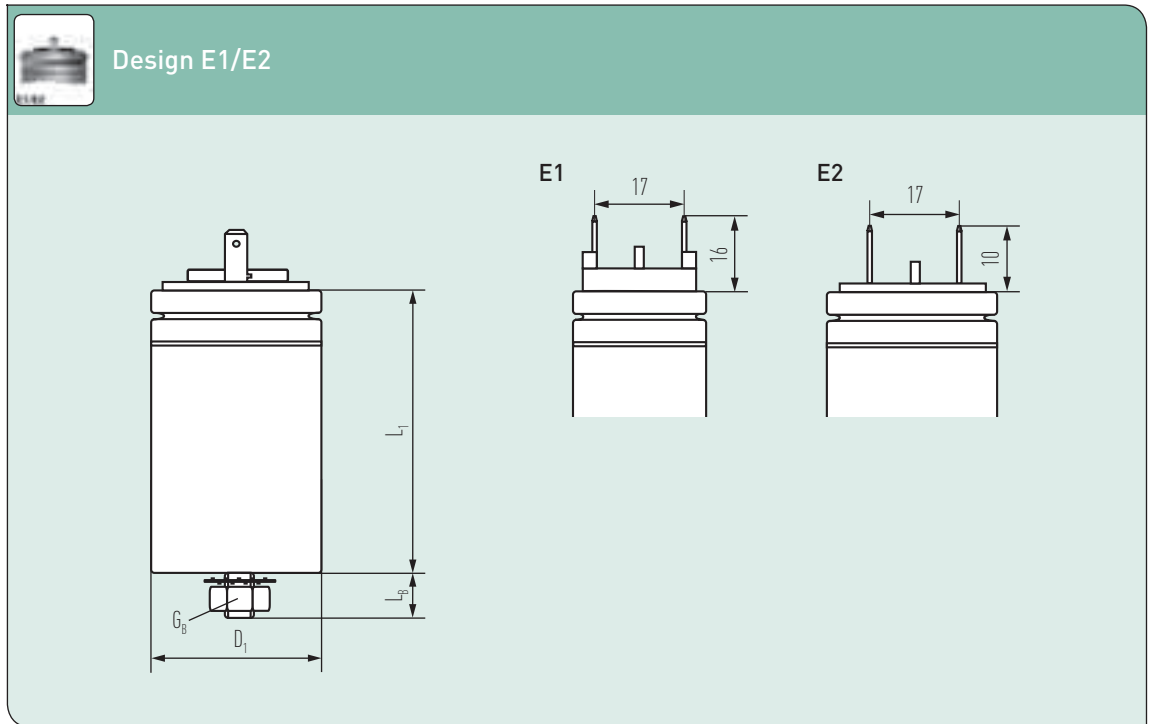
D1 KONDENSATOREN MIT GEHÄUSEDURCHMESSER 35...60 mm

D2 KONDENSATOREN MIT GEHÄUSEDURCHMESSER 65...75 mm

- Gehäusematerial Aluminium
- Bodenschraube siehe Tabelle
- Deckel Kunststoff, Bördelverschluss mit
..... Gummidichtung
- Anschlüsse Doppelfachstecker 6.3 × 0.8 mm
..... (verzinnter Stahl, genietet)
- I_{max} (Anschlüsse) 16 A
- Schutzgrad IP 00
- Feuchteklasse F

| D_1 | a | G_b | L_b | K | L |
|-------|------|-------|-------|-----|-----|
| 35 | 13.5 | M8 | 10 | 6.5 | 6.5 |
| 40 | 13.5 | M8 | 10 | 9 | 6.5 |
| 45 | 13.5 | M8 | 10 | 10 | 6.5 |
| 50 | 13.5 | M12 | 16 | 10 | 6.5 |
| 55 | 13.5 | M12 | 16 | 10 | 6.5 |
| 60 | 13.5 | M12 | 16 | 10 | 6.5 |
| 65 | 16.5 | M12 | 16 | 10 | 8 |
| 75 | 16.5 | M12 | 16 | 10 | 8 |





E1 CAPACITORS WITH A CAN DIAMETER OF 25...30 mm

E2 CAPACITORS WITH A CAN DIAMETER OF 35...65 mm

| | |
|-----------------------------|----------------------------|
| Can material | aluminium |
| Base mounting stud | see chart |
| Lid | plastic (UL94: V0) |
| Terminals | tab connector 6.3 × 0.8 mm |
| | (tinned steel, riveted) |
| I_{max} (Terminals) | 16 A |
| Degree of protection | IP 00 |
| Humidity class | F |

E1 KONDENSATOREN MIT GEHÄUSEDURCHMESSER 25...30 mm

E2 KONDENSATOREN MIT GEHÄUSEDURCHMESSER 35...65 mm

| | |
|------------------------------|------------------------------|
| Gehäusematerial | Aluminium |
| Bodenschraube | siehe Tabelle |
| Deckel | Kunststoff (UL94: V0) |
| Anschlüsse | Flachstecker 6.3 × 0.8 mm |
| | (verzinnter Stahl, genietet) |
| I_{max} (Anschlüsse) | 16 A |
| Schutzgrad | IP 00 |
| Feuchteklasse | F |

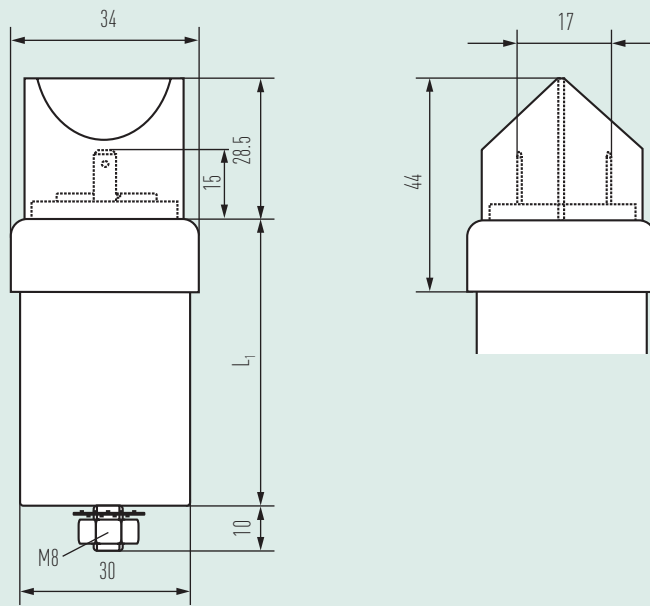
| D_1 | G_8 | L_B | K | L |
|---------|-------|-------|-----|-----|
| 25 | M8 | 10 | 7.5 | 7.5 |
| 30...45 | M8 | 10 | 9 | 7.5 |
| 50...65 | M12 | 16 | 9 | 7.5 |



E4



Design E4



CAPACITORS WITH A CAN DIAMETER OF 30 mm

Extended clearance and creepage distances by special plastic insulating top (UL 94 : V0)

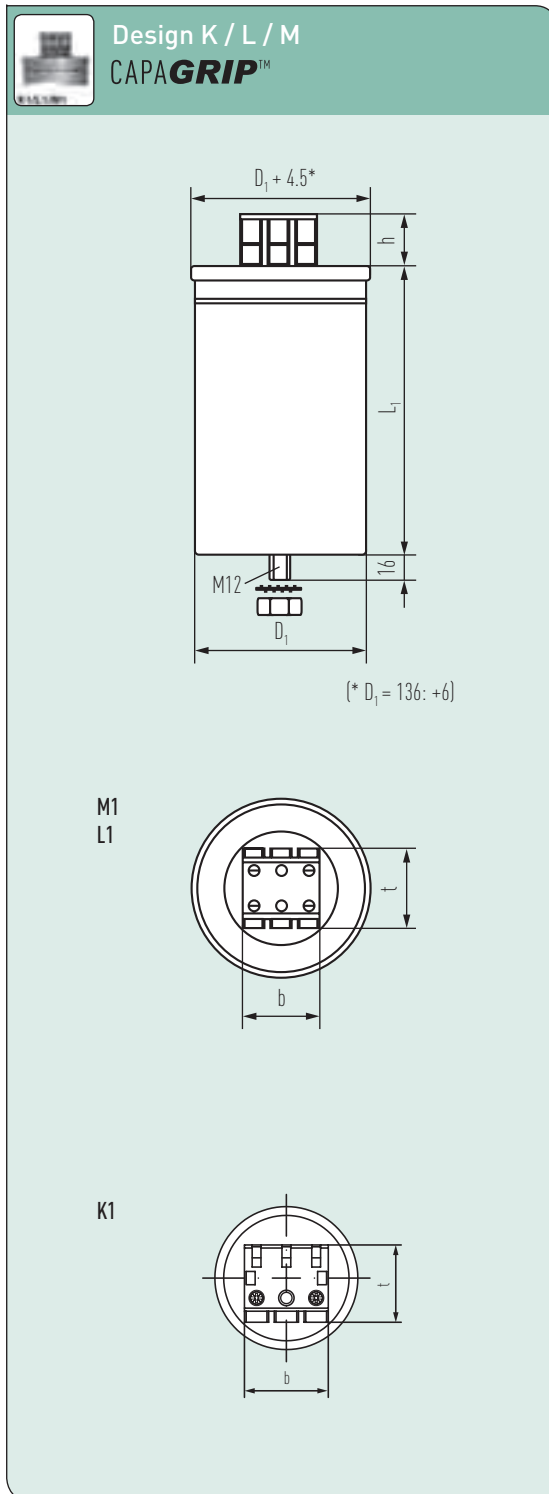
| | |
|------------------------------------|---|
| Can material | aluminium |
| Base mounting stud | M8 |
| Lid | plastic (UL94: V0) with rubber sealing, flanged can |
| Terminals | dual tab connectors 6.3 × 0.8 mm (tinned steel, riveted) |
| I _{max} (Terminals) | 16 A |
| Degree of protection | IP 00 |
| K | 40 mm |
| L | 30 mm |
| Humidity class | F |

KONDENSATOREN MIT EINEM GEHÄUSEDURCHMESSER VON 30 mm

Verlängerte Kriech- und Luftstrecken durch fest verbundenen speziellen Isolieraufsatz aus Kunststoff (UL 94 : V0)

| | |
|-------------------------------------|--|
| Gehäusematerial | Aluminium |
| Bodenschraube | M8 |
| Deckel | Kunststoff (UL94: V0), Bördelverschluss mit Gummidichtung |
| Anschlüsse | Flachstecker 6.3 × 0.8 mm (verzinnter Stahl, genietet) |
| I _{max} (Anschlüsse) | 16 A |
| Schutzgrad | IP 00 |
| K | 40 mm |
| L | 30 mm |
| Feuchteklasse | F |





CAPACITORS WITH A CAN DIAMETER OF 60...136 mm

Can material aluminium
 Base mounting stud M12
 Lid flanged aluminium (folded edge)
Terminals
 K1 1 × 10 mm² per contact¹⁾
 torque: 1.2 - 2 Nm
 L1 2 × 25 mm² per contact¹⁾
 torque: 2.5 - 3 Nm
 M1 2 × 50 mm² per contact¹⁾
 torque: 3.2 - 3.7 Nm

I_{max} (Terminals)
 K1 39 A
 L1 56 A
 M1 104 A

Degree of protection IP 20
 K 16 mm
 L 16 mm
Humidity class C

KONDENSATOREN MIT EINEM GEHÄUSEDURCHMESSER VON 60...136 mm

Gehäusematerial Aluminium
 Bodenschraube M12
 Deckel Aluminium, Bördelverschluss
Anschlüsse
 K1 1 × 10 mm² pro Kontakt¹⁾
 Drehmoment: 1.2 - 2 Nm
 L1 2 × 25 mm² pro Kontakt¹⁾
 Drehmoment: 2.5 - 3 Nm
 M1 2 × 50 mm² pro Kontakt¹⁾
 Drehmoment: 3.2 - 3.7 Nm

I_{max} (Anschlüsse)
 K1 39 A
 L1 56 A
 M1 104 A

Schutzgrad IP 20
 K 16 mm
 L 16 mm
Feuchtklasse C

1) For design K1, L1 and M1 the central screw has no contact_Bei den Ausführungen K1, L1 und M1 hat die mittlere Klemme keinen Kontakt

| | Design L1 | Design M1 | Design K1 |
|---|-----------|-----------|-----------|
| h | 35 | 45 | 26 |
| b | 42 | 49 | 38 |
| t | 44 | 55 | 35.5 |



Important Remarks

Safety

ELECTRONICON will not indemnify or be responsible for any kind of damages to persons or property due to the improper application of any capacitors purchased from ELECTRONICON or its distributors.

The capacitors should only be used for the application intended.

Mind that electrical or mechanical misapplication of capacitors can become hazardous. Misapplied capacitors can explode or catch fire and cause bodily injury or property damage due to the expulsion of material or metal fragments.

Please consult the detailed instructions for mounting and application stated in our brochure „Application Notes“, and on the ELECTRONICON website.

If in doubt about how to connect, operate, or discharge a capacitor, consult ELECTRONICON engineering.

Mounting And Cooling

The useful life of a capacitor may be reduced dramatically if exposed to excessive heat. Typically an increase in the ambient temperature of 7°C will halve the expected life of the capacitor. Make sure to obey the permitted operating temperatures.

To avoid overheating the capacitors must be allowed to cool unhindered and should be shielded from external heat sources. We recommend forced ventilation for all applications with detuning reactors.

Give at least 20mm clearance between the capacitors for natural or forced ventilation, and do not place them directly above or next to heat sources such as detuning or tuning reactors, bus bars, etc.

Protection against Overvoltages And Short Circuits:

Self-Healing Dielectric

All dielectric structures used in our power capacitors are „selfhealing“: In the event of a voltage breakdown the metal layers around the breakdown channel are evaporated by the temperature of the electric arc that forms between the electrodes. They are removed within a few microseconds and pushed apart by the pressure generated in the centre of the breakdown spot. An insulation area is formed which is reliably resistive and voltage proof for all operating requirements of the capacitor. The capacitor remains fully functional during and after the breakdown.

For voltages within the permitted testing and operating limits the capacitors are short-circuit- and overvoltage-proof. They are also proof against external short circuits as far as the resulting surge discharges do not exceed the specified surge current limits.

Wichtige Hinweise

Sicherheit

ELECTRONICON übernimmt keine Verantwortung oder Haftung für jegliche Schäden an Personen oder Eigentum, welche aus der unsachgemäßen Anwendung von bei ELECTRONICON oder seinen Distributoren erworbenen Kondensatoren herrührt.

Die Kondensatoren dürfen ausschließlich für ihren Bestimmungszweck verwendet werden.

Beachten Sie, daß ein elektrisch oder mechanisch fehlerhafter Einsatz von Kondensatoren gefährlich sein kann. Falsch eingesetzte Kondensatoren können explodieren oder Feuer fangen und infolge austretender Materialien bzw. Metallteile gesundheitliche und materielle Schäden verursachen.

Bitte konsultieren Sie die detaillierten Anweisungen in unserer Broschüre „Anwendungsbeispiel“ sowie auf der Webseite von ELECTRONICON. Bitte konsultieren Sie das Fachpersonal von ELECTRONICON oder seiner Distributoren bei allen Fragen bezüglich des Anschlusses, der Verwendung oder der Entladung von Kondensatoren.

Montage und Kühlung

Die Lebensdauer eines Kondensators kann durch übermäßige Wärmeeinwirkung erheblich verringert werden. Im allgemeinen führt eine Erhöhung der Umgebungstemperatur um 7°C zu einer Verringerung der Lebensdauer des Kondensators um 50 %. Halten Sie die zugelassenen Betriebstemperaturen ein.

Um Überhitzung zu vermeiden, muß gewährleistet sein, daß die Kondensatoren auftretende Verlustwärme ungehindert abführen können und vor fremden Wärmequellen abgeschirmt werden. Insbesondere bei verdrosselten Anlagen ist in jedem Falle eine Zwangslüftung zu empfehlen. Zwischen den und um die Kondensatoren herum sollten mindestens 20mm Platz für natürliche oder Zwangslüftung belassen werden. Bringen Sie den Kondensator nie direkt neben oder über Wärmequellen, wie Drosseln u. ä. an.

Schutz gegen Überspannungen und Kurzschlüsse: Selbstheilendes Dielektrikum

Alle in unseren Leistungskondensatoren eingesetzten dielektrischen Strukturen sind selbstheilend. Im Falle eines Kurzschlusses (Spannungsdurchschlag) verdampfen die Metallbeläge um den Durchschlagpunkt herum aufgrund der Temperatur des Lichtbogens, der sich zwischen den Elektroden bildet. Innerhalb weniger Mikrosekunden wird der Metalldampf durch den beim Durchschlag entstehenden Überdruck vom Zentrum des Durchschlages weggedrückt. Aus diese Weise bildet sich eine belagfreie Zone rings um den Durchschlagpunkt, wodurch dieser vollständig isoliert wird. Der Kondensator bleibt während und nach dem Durchschlag voll funktionsfähig.

Für Spannungen innerhalb der zugelassenen Test- und Betriebsbedingungen sind die Kondensatoren kurzschluss- und überspannungssicher. Sie sind außerdem sicher gegen äußere Kurzschlüsse, sofern bei den dabei entstehenden Stoßentladungen die zugelassenen Stoßströme nicht überschritten werden.



Failure Rate

The failure probability of a component is a statistical value which is described by a log-normal distribution:

$$N = N_0 \times e^{-\lambda t}$$

λ is the failure rate, which alternatively is also stated as the so-called FIT-rate (FIT = Failures In Time = $\lambda \times 10^9$).

The failure rate is very closely linked with operating temperature and operating voltage of the capacitor. The FIT rates stated in this catalogue are related to the capacitors' rated voltage and a dielectric temperature (= HOTSPOT temperature) of 70°C.

The simultaneous operation of capacitors at highest permissible voltage and operating temperature should be avoided; otherwise, failure rates may increase beyond reasonable technical reliability.

The standard reference period for the failure rate statement is 100.000 hours.

Please note that FIT rates can be altered or improved by technical adjustments. Please contact us for details.

The following diagram demonstrates the correlation between FIT rate, operating voltages and operating temperatures.

Ausfallrate

Die Ausfallwahrscheinlichkeit eines Bauelements ist eine statistische Größe, die mit Hilfe einer Normalverteilung beschrieben wird. Es gilt:

N = number of functional components after period t

Anzahl der nach der Zeit t intakten Bauelemente

N_0 = total number of components at time $t = 0$

Gesamtzahl der Bauelemente zum Zeitpunkt $t = 0$

λ = failure rate Ausfallrate

Dabei ist λ die Ausfallrate, die alternativ auch als FIT -Rate angegeben wird (FIT = $\lambda \times 10^9$)

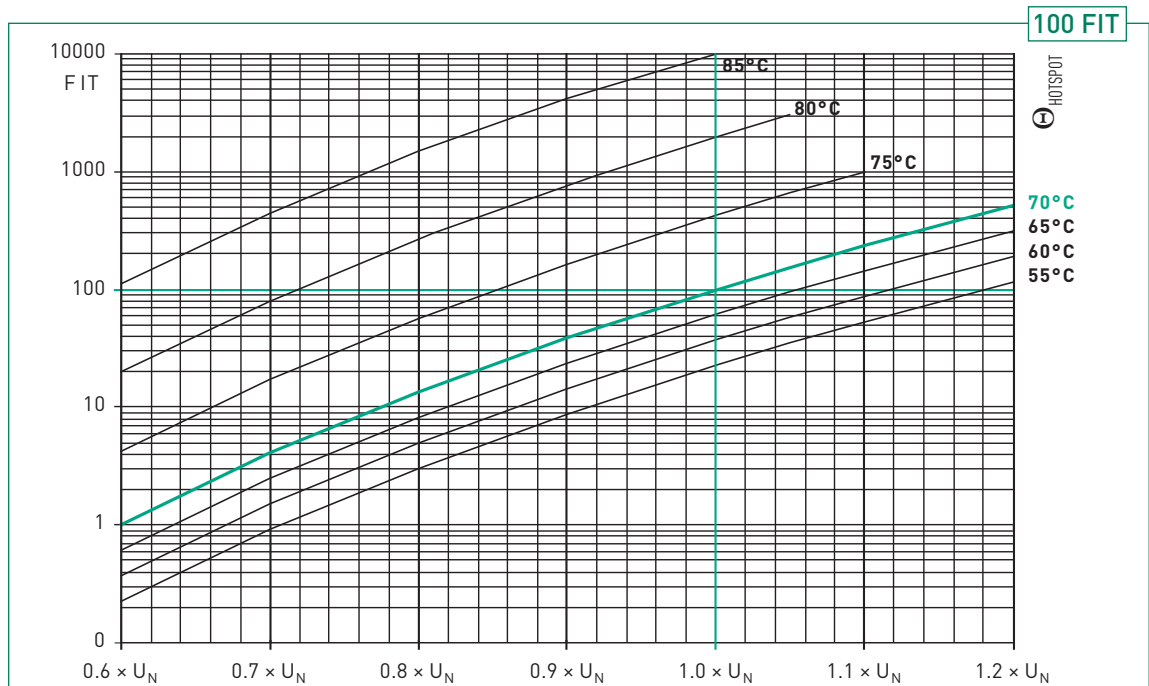
Die Ausfallrate ist stark abhängig von der Temperatur und der Betriebsfeldstärke. Die FIT-Raten im Katalogsortiment beziehen sich auf 70°C Dielektrikumstemperatur (=Hotspot-Temperatur) und die Nennspannung des Kondensators.

Der Betrieb von Kondensatoren mit der höchsten zulässigen Spannung und der höchsten zulässigen Betriebstemperatur sollte vermieden werden, andernfalls können die Ausfallraten so hoch werden, dass keine technisch sinnvollen Zuverlässigkeiten mehr gewährleistet sind.

Der Wert für die Ausfallrate bezieht sich auf einen Referenzzeitraum von 100.000h.

Bitte beachten Sie, daß FIT-Raten durch technische Anpassung der Kondensatoren beeinflusst und verbessert werden können. Auskünfte hierzu erteilen wir auf Anfrage.

Das nachstehende Kurvendiagramm macht den Zusammenhang von FIT-Rate, Betriebsspannung und Betriebstemperatur deutlich.



Functioning of the BAM™ (Break Action Mechanism)

In the event of overvoltage or thermal overload or ageing at the end of the capacitor's useful service life, an increasing number of selfhealing breakdowns may cause rising pressure inside the capacitor.

To prevent it from bursting, the capacitor is fitted with an obligatory „break action mechanism“ (BAM™).

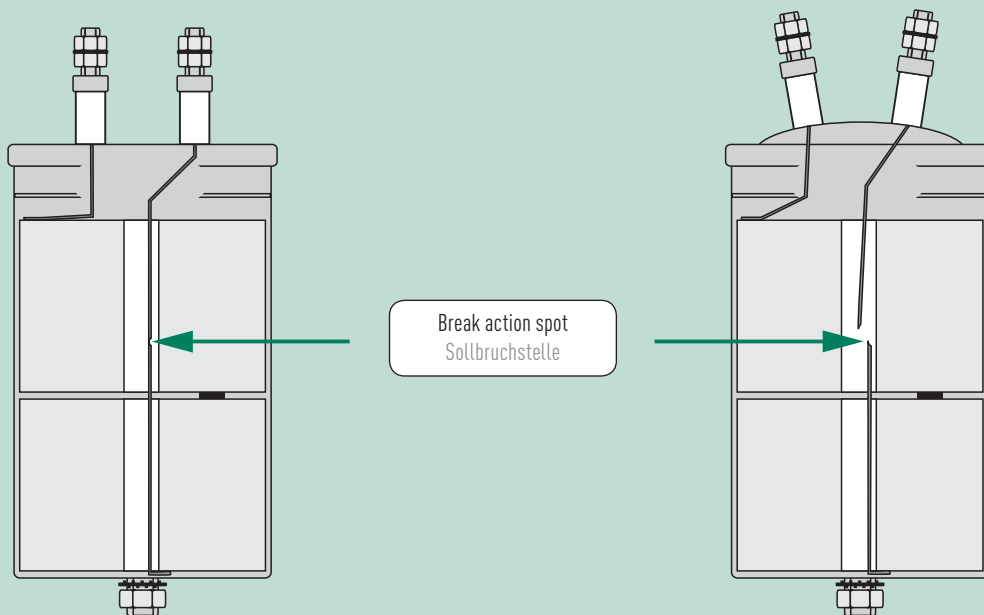
The BAM™ is based on an attenuated spot at one of the connecting wires inside the capacitor. With rising pressure the case begins to expand, mainly by opening the folded crimp and pushing the lid upwards. As a result, the prepared connecting wire is separated at the attenuated spot, and the current path is interrupted irreversibly.

Funktion der Abreißsicherung (BAM™)

Bei spannungsmäßiger oder thermischer Überlastung bzw. am Ende der Lebensdauer kann durch zahlreiche Selbstheilungsdurchschläge ein Überdruck im Kondensator entstehen. Um ein Bersten der Gehäuse zu verhindern, sind die Kondensatoren generell mit einer Überdruck-Abreißsicherung (BAM™) versehen. Diese Sicherung besteht aus einer Sollbruchstelle in zwei oder allen Anschlussdrähten. Bei einem Überdruck im Kondensator verlängert sich das Gehäuse durch das Öffnen der gestauchten Sicke bzw. Wölbung des Metalldeckels und die Stromzufuhr zu den Kondensatorwickeln wird an den Sollbruchstellen irreversibel unterbrochen.

Principle of the break action mechanism (exemplaric sketch)

Prinzip der Überdruck-Abreißsicherung (Prinzipskizze)



Capacitor before functioning of the BAM

Kondensator vor dem Abschalten durch die Überdruck-Abreißsicherung

Capacitor after functioning of the BAM

Kondensator nach dem Abschalten durch die Überdruck-Abreißsicherung



Warning:

It has to be noted that this safety system can act properly only within the permitted limits of loads and overloads. The simple presence of a safety mechanism does not mean that catastrophic failures are completely impossible. Strong overvoltages, permanent external heat, and heavy current overload, e.g. during harmonic resonances may cause sudden, uncontrollable rise of temperature and pressure inside the can which may not leave sufficient time for the BAM™ to act properly, and result in explosion and fire.

For more detailed information, please order our long-version catalogue „Capacitors for Power Electronics“, and the „General Safety Advice for Power Capacitors“ issued by the German Electrical and Electronic Manufacturer's Association (ZVEI).

3 Year Limited Warranty

All our products are designed, manufactured, and tested with the highest care and workmanship. The satisfaction of our customers is our highest goal. We therefore warrant remedying any defect in the goods resulting from faulty design, materials or workmanship, which appears within 3 years from the date of sale.

This warranty does not cover defects due to improper use of the goods or operation at conditions exceeding the rated values stated in the catalogue or special data sheet. Nor does it cover defects due to faulty maintenance or incorrect installation, alterations or faulty repairs undertaken by the Buyer. Finally the warranty does not cover normal wear and tear or deterioration.

See our „General Conditions“ for details on Warranty and Product liability.

Find more information and detailed instructions in our „Application Notes“ and on www.electronicon.com

Warning:

Es ist zu beachten, daß dieses Sicherungsprinzip nur innerhalb der zulässigen Be- und Überlastungsgrenzen zuverlässig wirken kann.

Die Existenz eines Sicherheitsmechanismus an sich bedeutet nicht, dass gewaltsame Ausfälle gänzlich ausgeschlossen werden können. Starke Überspannungen, andauernde äußere Wärmeeinwirkung sowie starke Überstrombelastung, z.B. während Oberwellenresonanzen, können plötzlichen unkontrollierten Temperatur- und Druckanstieg im Kondensatorinnern hervorrufen, welche der Überdrucksicherung nicht ausreichend Zeit zum ordnungsgemäßen Abschalten lassen und zur Explosion bzw. Entzündung führen können.

Für detailliertere Informationen konsultieren Sie bitte unsere ausführliche Broschüre „Anwendungshinweise“ sowie die „Allgemeinen Sicherheitshinweise für Leistungskondensatoren“ des ZVEI.

3 Jahre Gewährleistung

Alle unsere Erzeugnisse werden mit höchster Sorgfalt und Fachkenntnis entwickelt, hergestellt und geprüft. Die Zufriedenheit unserer Kunden ist unser höchstes Ziel. Wir verpflichten uns daher, jeden innerhalb von 3 Jahren ab Verkaufsdatum auftretenden Mangel an unseren Erzeugnissen zu beseitigen, welcher aus Fehlern in Design, Material oder Herstellung herrührt.

Diese Gewährleistung erstreckt sich nicht auf Defekte, welche auf unsachgemäße Anwendung oder Betrieb jenseits der nach Katalog oder speziellem Datenblatt zulässigen Einsatzbedingungen zurückzuführen sind. Sie erfaßt ebensowenig Schäden, welche aus fehlerhafter Wartung, unsachgemäßer Montage, Änderungen oder unsachgemäßen Reparaturen durch den Käufer bzw. Anwender resultieren. Schließlich betrifft diese Gewährleistung auch nicht normale Abnutzung und Verschleiß.

Siehe unsere „Allgemeinen Geschäftsbedingungen“ für Details zu Gewährleistung und Produkthaftung.

Mehr Informationen und ausführliche Anweisungen finden Sie in unseren „Anwendungshinweisen“ und unter www.electronicon.com



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