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E62 AND E64 HEAVY DUTY AC CAPACITORS



THE PERFECT CHOICE FOR YOUR AC/DC APPLICATION

ELECTRONICON[®]
always in charge

Choose the best capacitor
for any of your power electronics applications:

AC and DC capacitors with integrated safety mechanism
E62 AC/DC E62-3ph AC Filter E63 DC

Low-inductance capacitors
E50 PK16™ DC E53 AC/DC E61 DC

Low-inductance High-voltage capacitors
E51

AC and DC capacitors with large capacitance
E56 DC E59 AC/DC E70 AC E50.U SR17™ DC

CAPACITORS

ELECTRONICON®

always in charge

E62 and E64

HEAVY DUTY

AC CAPACITORS FOR UNIVERSAL USE

WECHSELSPANNUNGSKONDENSATOREN
FÜR DEN UNIVERSELLEN EINSATZ





Your perfect choice for universal and heavy duty AC 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 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 capacitors of the E64 range follow the same design principles as E62 but are particularly well-prepared for operation at high ambient temperatures: they can cope with Hotspot-temperatures of up to 100°C.

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 Wechselspannungs-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 Wechselspannungsbearbeitbarkeit und hervorragender Eignung für hohe Effektiv- und Stoßströme.

Die zylindrischen Kondensatoren unserer universellen AC Serie „E62“ sind ideal für den Einsatz bei nicht-sinusförmigen Spannungen und impulsförmigen Strömen, z.B. als Bedämpfung- 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 Stoßladekondensatoren sowie in Wechselspannungsfiltren 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.

Die Kondensatoren der E64 Reihe sind nach den selben Designprinzipien ausgelegt wie E62, jedoch besonders auf den Einsatz bei hohen Umgebungstemperaturen abgestimmt: sie kommen mit Hotspot-Temperaturen von bis zu 100°C zurecht.

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 HC - HIGH CURRENT
AC
420V AC

for latest edition and updates
check www.powercapacitors.info



AC-Capacitors optimized for high rms currents
Wechselspannungskondensatoren für hohe Effektivströme

Torx T20 **UL 1000V AFC** **UL: up to_bis zu 1700V AC/1200V rms**
CSA: up to_bis zu 850V AC/600V rms

Standards IEC 61071, UL810, CSA 22.2 No.190
optional IEC 61881

can Gehäuse aluminium Aluminium

mounting position Einbaulage ... 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%)

tanδ₀ 2 × 10⁻⁴

operating temperatures Grenztemperaturen

Θ_{min} ... Θ_{max} -40 ... +85°C
(lower temperatures on request)

Θ_{HOTSPOT} ≤ 85°C

storing temperature Lagertemperatur -40 ... +85°C

statistical lifetime statistische Lebensdauer > 200 000 h

Failure rate Ausfallrate 100 FIT *

(reference interval_Referenzintervall 100000 h, Θ_{HOTSPOT} ≤ 70°C)
* FIT curve see pg. 32_FIT Kurve siehe Seite 32

| C _N (μF) | U _N DC (V) | R _S (mΩ) | R _{th} (K/W) | I _{max} (A) | I _h (kA) | I _S (kA) | L _e (nH) | D ₁ × L ₁ (mm) | Design Maßbild | m (kg) | order no. Bestell-Nr. | pcs / box Stk / Box |
|------------------------|--------------------------|------------------------|--------------------------|-------------------------|------------------------|--------------------------|------------------------|---|-------------------|-----------|--------------------------|------------------------|
| U _N 420V AC | | U _{rms} 300V | | U _S 1050V | | U _{BB} 1050V DC | | U _{BG} 3000V AC | | | | |
| 42.5 | 700 | 2.3 | 9.3 | 20 | 0.8 | 2.5 | 90 | 60 × 80 | Z1 | 0.27 | E62.K80-433Z10 | 10 / FB2 |
| 60 | 700 | 3.3 | 10.5 | 32 | 0.7 | 2.1 | 100 | 50 × 85 | G1 | 0.18 | E62.G85-603G10 | 21 / FB2 |
| 75 | 700 | 2.1 | 7.1 | 40 | 0.8 | 2.5 | 110 | 60 × 105 | C68 | 0.31 | E62.K10-753C68 | 10 / FB1 |
| 95 | 700 | 2.3 | 6.5 | 30 | 1 | 3 | 110 | 65 × 105 | Z1 | 0.4 | E62.L10-953Z10 | 10 / FB1 |
| 100 | 700 | 3.1 | 7.2 | 40 | 1.15 | 3.45 | 100 | 65 × 95 | G1 | 0.33 | E62.L95-104G10 | 10 / FB2 |
| 120 | 700 | 1 | 5.7 | 50 | 1.4 | 4.2 | 140 | 75 × 105 | C6 | 0.5 | E62.M10-124C60 | 8 / FB0 |
| 130 | 700 | 3.4 | 6.3 | 40 | 1.2 | 3.6 | 110 | 65 × 109 | G1 | 0.4 | E62.L10-134G10 | 10 / FB1 |
| 130 | 700 | 1.6 | 5.7 | 45 | 1.4 | 4 | 110 | 75 × 105 | S2 | 0.5 | E62.M10-134S20 | 8 / FB1 |
| 150 | 700 | 4.4 | 5.1 | 35 | 1.2 | 3.6 | 110 | 65 × 135 | G1 | 0.5 | E62.L13-154G10 | 10 / FB0 |
| 167 | 700 | 1.2 | 4.7 | 56 | 1.8 | 5 | 110 | 85 × 112 | S2 | 0.65 | E62.N11-174S20 | 10 / FB10 |
| 170 | 700 | 0.82 | 5 | 50 | 2 | 6 | 140 | 85 × 105 | C6 | 0.6 | E62.N10-174C60 | 10 / FB10 |
| 200 | 700 | 4.4 | 4.7 | 30 | 1.2 | 3.6 | 140 | 65 × 145 | G1 | 0.5 | E62.L14-204G10 | 10 / FB7 |
| 217 | 700 | 1.1 | 4.2 | 56 | 2.4 | 7 | 110 | 95 × 112 | S2 | 0.85 | E62.P11-224S20 | 6 / FB11 |
| 220 | 700 | 1.3 | 4.5 | 50 | 2.5 | 7.5 | 140 | 95 × 105 | C6 | 0.8 | E62.P10-224C60 | 6 / FB10 |
| 250 | 700 | 1.2 | 3 | 80 | 3 | 10 | 160 | 85 × 176 | C6 | 1.2 | E62.N17-254C60 | 5 / FB8 |
| 340 | 700 | 1.8 | 3.1 | 56 | 1.8 | 3 | 110 | 85 × 169 | S2 | 1 | E62.N16-344S20 | 5 / FB8 |
| 400 | 700 | 0.68 | 2.1 | 80 | 4.5 | 13.5 | 160 | 85 × 245 | C6 | 1.5 | E62.N24-404C60 | 5 / FB12 |
| 434 | 700 | 1 | 2.6 | 56 | 5 | 14 | 120 | 95 × 179 | S2 | 1.3 | E62.P17-434S20 | 3 / FB8 |
| 470 | 700 | 0.53 | 2.7 | 80 | 5.3 | 15.9 | 160 | 95 × 176 | C6 | 1.3 | E62.P17-474C60 | 3 / FB8 |
| 500 | 700 | 0.57 | 2.5 | 80 | 5.7 | 17.1 | 160 | 100 × 176 | C6 | 1.5 | E62.Q17-504C60 | 3 / FB8 |
| 540 | 700 | 0.9 | 1.9 | 80 | 6 | 18 | 170 | 95 × 245 | C6 | 2.2 | E62.P24-544C60 | 3 / FB12 |
| 2000 | 700 | 0.6 | 1 | 100 | 15 | 20 | 190 | 136 × 320 | C6 | 4.9 | E62.S32-205C60 | 2 / FB13 |



DATA CHARTS_DATENTABELLEN_E62 HC

Other values, dimensions and terminal combinations available on request.
Andere Werte, Abmessungen und Anschlußkombinationen auf Anfrage erhältlich.



E62 HC - HIGH CURRENT
AC
500...640V AC

| C_N (μ F) | U_N DC (V) | R_s (m Ω) | R_{th} (K/W) | I_{max} (A) | \hat{I} (kA) | I_s (kA) | L_s (nH) | $D_1 \times L_1$ (mm) | Design Maßbild | m (kg) | order no. Bestell-Nr. | pcs / box Stk / Box |
|---------------------------------|-----------------|----------------------------------|-------------------|-------------------------------|-------------------|-------------------------------------|---------------|-------------------------------------|-------------------|-----------|--------------------------|------------------------|
| U_N 500V AC | | U_{rms} 360V | | U_s 1260V | | U_{BB} 1260V DC | | U_{BG} 3000V AC | | | | |
| 30 | 840 | 2.4 | 9.3 | 20 | 0.7 | 2.2 | 90 | 60 × 80 | Z1 | 0.27 | E62.K80-303Z10 | 10 / FB2 |
| 40 | 840 | 3.6 | 10.5 | 30 | 0.6 | 1.7 | 100 | 50 × 85 | G1 | 0.18 | E62.G85-403G10 | 21 / FB2 |
| 50 | 840 | 4.4 | 9.5 | 25 | 0.7 | 2.1 | 110 | 55 × 85 | G1 | 0.21 | E62.H85-503G10 | 18 / FB2 |
| 55 | 840 | 2.2 | 7.1 | 40 | 0.7 | 2.2 | 110 | 60 × 105 | C68 | 0.31 | E62.K10-553C68 | 10 / FB1 |
| 70 | 840 | 2.4 | 6.5 | 30 | 0.9 | 2.8 | 110 | 65 × 105 | Z1 | 0.4 | E62.L10-703Z10 | 10 / FB1 |
| 75 | 840 | 2.3 | 7.2 | 40 | 1 | 3 | 100 | 65 × 95 | G1 | 0.33 | E62.L95-753G10 | 10 / FB2 |
| 100 | 840 | 4.3 | 5.1 | 40 | 0.9 | 2.7 | 120 | 65 × 135 | G1 | 0.5 | E62.L13-104G10 | 10 / FB0 |
| 150 | 840 | 1.4 | 4.2 | 56 | 1.6 | 5 | 110 | 85 × 124 | S2 | 0.75 | E62.N12-154S20 | 5 / FB8 |
| 200 | 840 | 1.5 | 3.4 | 56 | 2.8 | 8.4 | 130 | 75 × 176 | S2 | 0.8 | E62.M17-204S20 | 5 / FB8 |
| 250 | 840 | 1.9 | 3.1 | 56 | 1.6 | 5 | 110 | 85 × 169 | S2 | 1 | E62.N16-254S20 | 5 / FB8 |
| 300 | 840 | 1.1 | 2.7 | 80 | 4.1 | 12.3 | 160 | 95 × 176 | C6 | 1.3 | E62.P17-304C60 | 3 / FB8 |
| 320 | 840 | 1 | 2.6 | 56 | 4 | 13 | 120 | 95 × 179 | S2 | 1.3 | E62.P17-324S20 | 3 / FB8 |
| 620 | 840 | 0.58 | 1.6 | 100 | 9 | 15 | 160 | 116 × 245 | C6 | 2.7 | E62.R24-624C60 | 3 / FB12 |
| 750 | 840 | 0.57 | 1.6 | 100 | 10 | 20 | 170 | 116 × 245 | C6 | 2.7 | E62.R24-754C60 | 3 / FB12 |
| 1000 | 840 | 0.56 | 1.3 | 100 | 14 | 20 | 170 | 136 × 245 | C6 | 3.7 | E62.S24-105C60 | 2 / FB12 |
| 1500 | 840 | 0.5 | 1 | 100 | 15 | 20 | 190 | 136 × 320 | C6 | 4.9 | E62.S32-155C60 | 2 / FB13 |
| U_N 640V AC | | U_{rms} 450V | | U_s 1500V | | U_{BB} 1500V DC | | U_{BG} 3000V AC | | | | |
| 15 | 1000 | 2.9 | 14.4 | 25 | 0.24 | 0.7 | 100 | 50 × 62 | G1 | 0.14 | E62.G62-153G10 | 21 / FB3 |
| 23 | 1000 | 2.5 | 9.3 | 20 | 0.7 | 2 | 90 | 60 × 80 | Z1 | 0.27 | E62.K80-233Z10 | 10 / FB2 |
| 30 | 1000 | 3.9 | 10.5 | 33 | 0.5 | 1.4 | 100 | 50 × 85 | G1 | 0.18 | E62.G85-303G10 | 21 / FB2 |
| 41 | 1000 | 2.4 | 7.1 | 40 | 0.6 | 1.9 | 110 | 60 × 105 | C68 | 0.31 | E62.K10-413C68 | 10 / FB1 |
| 50 | 1000 | 3.4 | 7.2 | 40 | 0.8 | 2.4 | 100 | 65 × 95 | G1 | 0.33 | E62.L95-503G10 | 10 / FB2 |
| 52 | 1000 | 2.5 | 6.5 | 30 | 0.8 | 2.4 | 110 | 65 × 105 | Z1 | 0.4 | E62.L10-523Z10 | 10 / FB1 |
| 68 | 1000 | 3.7 | 6.3 | 30 | 0.9 | 2.7 | 100 | 65 × 109 | G1 | 0.4 | E62.L10-683G10 | 10 / FB1 |
| 75 | 1000 | 1.5 | 5.7 | 45 | 1.2 | 3.6 | 110 | 75 × 105 | S2 | 0.5 | E62.M10-753S20 | 8 / FB1 |
| 80 | 1000 | 1.5 | 5 | 45 | 1.3 | 3.8 | 110 | 85 × 105 | S2 | 0.6 | E62.N10-803S20 | 10 / FB10 |
| 100 | 1000 | 0.53 | 4.4 | 80 | 3 | 9 | 100 | 85 × 120 | C6 | 0.9 | E62.N12-104C60 | 10 / FB11 |
| 120 | 1000 | 1.2 | 4.5 | 50 | 1.9 | 5.8 | 110 | 95 × 105 | S2 | 0.8 | E62.P10-124S20 | 6 / FB10 |
| 140 | 1000 | 0.81 | 3.2 | 100 | 4 | 12 | 160 | 85 × 164 | C6 | 1 | E62.N16-144C60 | 5 / FB8 |
| 155 | 1000 | 1.8 | 3.5 | 56 | 1.4 | 4 | 110 | 85 × 149 | S2 | 0.9 | E62.N14-164S20 | 5 / FB8 |
| 200 | 1000 | 0.7 | 2.7 | 80 | 3.5 | 10.5 | 160 | 95 × 176 | C6 | 1.3 | E62.P17-204C60 | 3 / FB8 |
| 220 | 1000 | 1.7 | 2.9 | 56 | 1.8 | 5 | 130 | 95 × 159 | S2 | 1.2 | E62.P15-224S20 | 3 / FB8 |
| 250 | 1000 | 0.63 | 2.5 | 80 | 4 | 12 | 160 | 100 × 176 | C6 | 1.5 | E62.Q17-254C60 | 3 / FB8 |
| 250 | 1000 | 1.4 | 2.7 | 56 | 4 | 12 | 130 | 95 × 176 | S2 | 1.3 | E62.P17-254S20 | 3 / FB8 |
| 350 | 1000 | 0.57 | 2.2 | 80 | 5.6 | 16.8 | 160 | 116 × 176 | C6 | 2 | E62.R17-354C60 | 3 / FB8 |
| 500 | 1000 | 0.6 | 1.6 | 100 | 7.8 | 20 | 170 | 116 × 245 | C6 | 2.7 | E62.R24-504C60 | 3 / FB12 |
| 750 | 1000 | 0.64 | 1.2 | 100 | 12 | 20 | 190 | 116 × 320 | C6 | 3.5 | E62.R32-754C60 | 3 / FB13 |
| 800 | 1000 | 0.63 | 1.3 | 100 | 12.8 | 20 | 170 | 136 × 245 | C6 | 3.7 | E62.S24-804C60 | 2 / FB12 |
| 1000 | 1000 | 0.62 | 1 | 100 | 15.6 | 20 | 190 | 136 × 320 | C6 | 4.9 | E62.S32-105C60 | 2 / FB13 |



E62 HC - HIGH CURRENT

AC

680...750V AC



| C_N (μF) | U_{DC} (V) | R_S (m Ω) | R_{th} (K/W) | I_{max} (A) | \hat{I} (kA) | I_S (kA) | L_e (nH) | $D_1 \times L_1$ (mm) | Design Maßbild | m (kg) | order no. Bestell-Nr. | pcs / box Stk / Box |
|---------------------------------|-----------------|----------------------------------|-------------------|------------------|-------------------------------|---------------|-------------------------------------|--------------------------|-------------------------------------|-----------|--------------------------|------------------------|
| U_N 680V AC | | U_{rms} 480V | | | U_S 1680V | | U_{BB} 1680V DC | | U_{BG} 3000V AC | | | |
| 17.5 | 1120 | 2.6 | 9.3 | 20 | 0.6 | 1.7 | 90 | 60 × 80 | Z1 | 0.27 | E62.K80-183Z10 | 10 / FB2 |
| 31 | 1120 | 2.6 | 7.1 | 40 | 0.6 | 1.7 | 110 | 60 × 105 | C68 | 0.31 | E62.K10-313C68 | 10 / FB1 |
| 39 | 1120 | 2.7 | 6.5 | 30 | 0.7 | 2.1 | 110 | 65 × 105 | Z1 | 0.4 | E62.L10-393Z10 | 10 / FB1 |
| 60 | 1120 | 1.6 | 5.7 | 43 | 1.1 | 3.3 | 110 | 75 × 105 | S2 | 0.5 | E62.M10-603S20 | 8 / FB1 |
| 68 | 1120 | 1.5 | 5 | 45 | 1.2 | 3.6 | 110 | 85 × 105 | S2 | 0.6 | E62.N10-683S20 | 10 / FB10 |
| 86 | 1120 | 1.6 | 4.2 | 56 | 1.3 | 4 | 110 | 85 × 124 | S2 | 0.75 | E62.N12-863S20 | 5 / FB8 |
| 100 | 1120 | 1.3 | 4.2 | 56 | 1.8 | 5.5 | 110 | 100 × 105 | S2 | 0.9 | E62.Q10-104S20 | 6 / FB10 |
| 100 | 1120 | 1.1 | 3.9 | 80 | 3 | 10 | 150 | 95 × 120 | C6 | 0.9 | E62.P12-104C60 | 6 / FB13 |
| 150 | 1120 | 0.95 | 3.2 | 80 | 5 | 14 | 150 | 116 × 124 | C6 | 1.3 | E62.R12-154C60 | 3 / FB11 |
| 152 | 1120 | 1.7 | 3.1 | 56 | 1.6 | 5 | 110 | 95 × 149 | S2 | 1.1 | E62.P14-154S20 | 3 / FB8 |
| 180 | 1120 | 1.4 | 2.7 | 56 | 4.0 | 11 | 130 | 95 × 176 | S2 | 1.3 | E62.P17-184S20 | 3 / FB8 |
| 200 | 1120 | 0.66 | 2.5 | 80 | 3.7 | 11.1 | 160 | 100 × 176 | C6 | 1.5 | E62.Q17-204C60 | 3 / FB8 |
| 280 | 1120 | 0.6 | 2.2 | 80 | 5.1 | 15.3 | 160 | 116 × 176 | C6 | 2 | E62.R17-284C60 | 3 / FB8 |
| 400 | 1120 | 0.6 | 1.6 | 100 | 7.3 | 20 | 170 | 116 × 245 | C6 | 2.7 | E62.R24-404C60 | 3 / FB12 |
| 600 | 1120 | 0.56 | 1.3 | 100 | 10.7 | 20 | 170 | 136 × 245 | C6 | 3.7 | E62.S24-604C60 | 2 / FB12 |
| 800 | 1120 | 0.63 | 1 | 100 | 14.8 | 20 | 190 | 136 × 320 | C6 | 4.9 | E62.S32-804C60 | 2 / FB13 |
| U_N 750V AC | | U_{rms} 530V | | | U_S 1900V | | U_{BB} 1890V DC | | U_{BG} 3000V AC | | | |
| 10 | 1260 | 3.1 | 14.4 | 20 | 0.4 | 1.2 | 110 | 50 × 62 | G1 | 0.14 | E62.G62-103G10 | 21 / FB3 |
| 13 | 1260 | 2.8 | 9.3 | 20 | 0.5 | 1.4 | 90 | 60 × 80 | Z1 | 0.27 | E62.K80-133Z10 | 10 / FB2 |
| 20 | 1260 | 4.2 | 10.5 | 27 | 0.4 | 1.2 | 100 | 50 × 85 | G1 | 0.18 | E62.G85-203G10 | 21 / FB2 |
| 24 | 1260 | 2.9 | 7.1 | 40 | 0.5 | 1.4 | 110 | 60 × 105 | C68 | 0.31 | E62.K10-243C68 | 10 / FB1 |
| 30 | 1260 | 3.2 | 6.5 | 30 | 0.6 | 1.8 | 110 | 65 × 105 | Z1 | 0.4 | E62.L10-303Z10 | 10 / FB1 |
| 33 | 1260 | 3.6 | 7.2 | 37 | 0.7 | 2 | 100 | 65 × 95 | G1 | 0.33 | E62.L95-333G10 | 10 / FB2 |
| 40 | 1260 | 5.6 | 6.3 | 30 | 0.7 | 2 | 120 | 65 × 109 | G1 | 0.4 | E62.L10-403G10 | 10 / FB1 |
| 47 | 1260 | 1.9 | 5.7 | 43 | 1 | 2.9 | 110 | 75 × 105 | S2 | 0.5 | E62.M10-473S20 | 8 / FB1 |
| 60 | 1260 | 6.2 | 4.7 | 35 | 0.7 | 2 | 140 | 65 × 145 | G1 | 0.5 | E62.L14-603G10 | 10 / FB7 |
| 60 | 1260 | 1.5 | 5 | 45 | 1.2 | 3.7 | 110 | 85 × 105 | S2 | 0.6 | E62.N10-603S20 | 10 / FB10 |
| 65 | 1260 | 1.8 | 4.2 | 56 | 1.1 | 3 | 110 | 85 × 124 | S2 | 0.75 | E62.N12-653S20 | 5 / FB8 |
| 75 | 1260 | 1.4 | 4.5 | 56 | 1.5 | 4.6 | 110 | 95 × 105 | S2 | 0.8 | E62.P10-753S20 | 6 / FB10 |
| 80 | 1260 | 1.3 | 4.2 | 43 | 1.6 | 5 | 110 | 100 × 105 | S2 | 0.9 | E62.Q10-803S20 | 6 / FB10 |
| 116 | 1260 | 1.8 | 3.1 | 56 | 1.4 | 4 | 110 | 95 × 149 | S2 | 1.1 | E62.P14-124S20 | 3 / FB8 |
| 150 | 1260 | 1.4 | 2.7 | 56 | 3.1 | 9.3 | 130 | 95 × 176 | S2 | 1.3 | E62.P17-154S20 | 3 / FB8 |
| 150 | 1260 | 0.7 | 2.5 | 80 | 3.1 | 9.3 | 160 | 100 × 176 | C6 | 1.5 | E62.Q17-154C60 | 3 / FB8 |
| 220 | 1260 | 0.61 | 2.2 | 80 | 4.5 | 13.5 | 160 | 116 × 176 | C6 | 2 | E62.R17-224C60 | 3 / FB8 |
| 330 | 1260 | 0.61 | 1.6 | 100 | 6.8 | 20 | 170 | 116 × 245 | C6 | 2.7 | E62.R24-334C60 | 3 / FB12 |
| 350 | 1260 | 0.59 | 1.6 | 100 | 6.8 | 20 | 160 | 116 × 245 | C6 | 2.7 | E62.R24-354C60 | 3 / FB12 |
| 500 | 1260 | 0.56 | 1.3 | 100 | 10.1 | 20 | 170 | 136 × 245 | C6 | 3.7 | E62.S24-504C60 | 2 / FB12 |
| 600 | 1260 | 0.64 | 1 | 100 | 12.4 | 20 | 190 | 136 × 320 | C6 | 4.9 | E62.S32-604C60 | 2 / FB13 |

Other values, dimensions and terminal combinations available on request.
Andere Werte, Abmessungen und Anschlußkombinationen auf Anfrage erhältlich.



E62 HC - HIGH CURRENT
AC
850...1000V AC

| C _N (µF) | U _N DC (V) | R _s (mΩ) | R _{th} (K/W) | I _{max} (A) | I _h (kA) | I _s (kA) | L _s (nH) | D ₁ × L ₁ (mm) | Design Maßbild | m (kg) | order no. Bestell-Nr. | pcs / box Stk / Box |
|-------------------------------|--------------------------|-----------------------------|--------------------------|----------------------------|------------------------|--------------------------------|------------------------|---|-------------------|-----------|--------------------------|------------------------|
| U_N 850V AC | | U_{rms} 600V | | U_s 2100V | | U_{BB} 2100V DC | | U_{BG} 3000V AC | | | | |
| 10.5 | 1400 | 2.9 | 9.3 | 20 | 0.4 | 1.3 | 90 | 60 × 80 | Z1 | 0.27 | E62.K80-113Z10 | 10 / FB2 |
| 15 | 1400 | 4.6 | 10.5 | 25 | 0.3 | 0.9 | 80 | 50 × 85 | G1 | 0.18 | E62.G85-153G10 | 21 / FB2 |
| 16 | 1400 | 4.5 | 10.5 | 30 | 0.4 | 1.1 | 100 | 50 × 85 | G1 | 0.18 | E62.G85-163G10 | 21 / FB2 |
| 19 | 1400 | 3.1 | 7.1 | 40 | 0.4 | 1.3 | 110 | 60 × 105 | C68 | 0.31 | E62.K10-193C68 | 10 / FB1 |
| 24.5 | 1400 | 3.4 | 6.5 | 30 | 0.6 | 1.7 | 110 | 65 × 105 | Z1 | 0.4 | E62.L10-253Z10 | 10 / FB1 |
| 25 | 1400 | 3.9 | 7.2 | 40 | 0.6 | 1.7 | 100 | 65 × 95 | G1 | 0.33 | E62.L95-253G10 | 10 / FB2 |
| 30 | 1400 | 4.4 | 6.3 | 30 | 0.6 | 1.7 | 110 | 65 × 109 | G1 | 0.4 | E62.L10-303G10 | 10 / FB1 |
| 33 | 1400 | 1.9 | 5.7 | 40 | 0.8 | 2.3 | 110 | 75 × 105 | S2 | 0.5 | E62.M10-333S20 | 8 / FB1 |
| 47 | 1400 | 1.6 | 5 | 45 | 1.1 | 3.2 | 110 | 85 × 105 | S2 | 0.6 | E62.N10-473S20 | 10 / FB10 |
| 50 | 1400 | 5.6 | 4.7 | 25 | 0.6 | 1.8 | 120 | 65 × 145 | G1 | 0.5 | E62.L14-503G10 | 10 / FB7 |
| 60 | 1400 | 1.4 | 4.5 | 50 | 1.4 | 4.1 | 110 | 95 × 105 | S2 | 0.8 | E62.P10-603S20 | 6 / FB10 |
| 80 | 1400 | 1.6 | 3 | 80 | 1.8 | 5 | 160 | 85 × 176 | C6 | 1.2 | E62.N17-803C60 | 5 / FB8 |
| 94 | 1400 | 1.9 | 3.1 | 56 | 1.3 | 4 | 110 | 95 × 149 | S2 | 1.1 | E62.P14-943S20 | 3 / FB8 |
| 120 | 1400 | 0.74 | 2.7 | 80 | 2.7 | 8.2 | 160 | 95 × 176 | C6 | 1.3 | E62.P17-124C60 | 3 / FB8 |
| 130 | 1400 | 0.71 | 2.5 | 80 | 3 | 8.9 | 160 | 100 × 176 | C6 | 1.5 | E62.Q17-134C60 | 3 / FB8 |
| 180 | 1400 | 0.63 | 2.2 | 80 | 4.1 | 12.3 | 160 | 116 × 176 | C6 | 2 | E62.R17-184C60 | 3 / FB8 |
| 270 | 1400 | 0.62 | 1.6 | 100 | 6.2 | 18.6 | 170 | 116 × 245 | C6 | 2.7 | E62.R24-274C60 | 3 / FB12 |
| 400 | 1400 | 0.58 | 1.3 | 100 | 9.2 | 20 | 170 | 136 × 245 | C6 | 3.7 | E62.S24-404C60 | 2 / FB12 |
| 500 | 1400 | 0.4 | 1 | 100 | 11.4 | 20 | 190 | 136 × 320 | C6 | 4.9 | E62.S32-504C60 | 2 / FB13 |
| U_N 1000V AC | | U_{rms} 720V | | U_s 2500V | | U_{BB} 2520V DC | | U_{BG} 3500V AC | | | | |
| 4.7 | 1680 | 3.6 | 14.4 | 25 | 0.5 | 1.4 | 110 | 50 × 62 | G1 | 0.14 | E62.G62-472G10 | 21 / FB3 |
| 6.8 | 1680 | 2.4 | 9.3 | 20 | 0.7 | 2.2 | 90 | 60 × 80 | Z1 | 0.27 | E62.K80-682Z10 | 10 / FB2 |
| 8 | 1680 | 4 | 10.5 | 26 | 0.46 | 1.38 | 120 | 50 × 85 | G1 | 0.18 | E62.G85-802G10 | 21 / FB2 |
| 10 | 1680 | 3.6 | 10.5 | 26 | 0.58 | 1.74 | 100 | 50 × 85 | G1 | 0.18 | E62.G85-103G10 | 21 / FB2 |
| 12 | 1680 | 3 | 9.5 | 30 | 0.7 | 2.1 | 110 | 55 × 85 | G1 | 0.21 | E62.H85-123G10 | 18 / FB1 |
| 13 | 1680 | 2.3 | 7.1 | 40 | 0.7 | 2.2 | 110 | 60 × 105 | C68 | 0.31 | E62.K10-133C68 | 10 / FB1 |
| 16 | 1680 | 3.3 | 7.2 | 40 | 0.95 | 2.9 | 110 | 65 × 95 | G1 | 0.33 | E62.L95-163G10 | 10 / FB2 |
| 16.5 | 1680 | 2.7 | 6.5 | 30 | 0.9 | 2.8 | 110 | 65 × 105 | Z1 | 0.4 | E62.L10-253Z10 | 10 / FB1 |
| 18 | 1680 | 3.2 | 7.2 | 40 | 1 | 3 | 100 | 65 × 95 | G1 | 0.33 | E62.L95-183G10 | 10 / FB2 |
| 20 | 1680 | 1.2 | 5.7 | 50 | 1.2 | 3.5 | 140 | 75 × 105 | C6 | 0.5 | E62.M10-203C60 | 10 / FB11 |
| 28 | 1680 | 0.94 | 5 | 50 | 1.6 | 4.9 | 140 | 85 × 105 | C6 | 0.6 | E62.N10-283C60 | 10 / FB11 |
| 33 | 1680 | 0.85 | 4.5 | 50 | 1.9 | 5.7 | 140 | 95 × 105 | C6 | 0.8 | E62.P10-333C60 | 6 / FB11 |
| 36 | 1680 | 1.4 | 4.2 | 56 | 1.6 | 5 | 110 | 85 × 124 | S2 | 0.75 | E62.N12-363S20 | 5 / FB8 |
| 64 | 1680 | 1.5 | 3.1 | 56 | 2.1 | 6 | 110 | 95 × 149 | S2 | 1.1 | E62.P14-643S20 | 3 / FB8 |
| 68 | 1680 | 0.65 | 2.7 | 80 | 3.9 | 11.7 | 160 | 95 × 176 | C6 | 1.3 | E62.P17-683C60 | 3 / FB8 |
| 80 | 1680 | 0.61 | 2.5 | 80 | 4.6 | 13.8 | 160 | 100 × 176 | C6 | 1.5 | E62.Q17-803C60 | 3 / FB8 |
| 120 | 1680 | 0.54 | 2.2 | 80 | 7 | 20 | 160 | 116 × 176 | C6 | 2 | E62.R17-124C60 | 3 / FB8 |
| 180 | 1680 | 0.57 | 1.6 | 100 | 10.4 | 20 | 170 | 116 × 245 | C6 | 2.7 | E62.R24-184C60 | 3 / FB12 |
| 220 | 1680 | 0.64 | 1.2 | 100 | 14.2 | 20 | 180 | 116 × 320 | C6 | 3.5 | E62.R32-224C60 | 3 / FB13 |
| 250 | 1680 | 0.54 | 1.3 | 100 | 14.5 | 20 | 170 | 136 × 245 | C6 | 3.7 | E62.S24-254C60 | 2 / FB12 |
| 330 | 1680 | 0.61 | 1 | 100 | 15 | 20 | 190 | 136 × 320 | C6 | 4.9 | E62.S32-334C60 | 2 / FB13 |



E62 HC - HIGH CURRENT

AC

1200.....1700V AC



| C_N (μ F) | U_{DC} (V) | R_S (m Ω) | R_{th} (K/W) | I_{max} (A) | \hat{I} (kA) | I_S (kA) | L_e (nH) | $D_1 \times L_1$ (mm) | Design Maßbild | m (kg) | order no. Bestell-Nr. | pcs / box Stk / Box |
|----------------------------------|-----------------|-----------------------------------|-------------------|------------------|-------------------------------|---------------|-------------------------------------|--------------------------|-------------------------------------|-----------|--------------------------|------------------------|
| U_N 1200V AC | | U_{rms} 850V | | | U_S 3000V | | U_{BB} 3000V DC | | U_{BG} 4000V AC | | | |
| 5 | 2000 | 2.6 | 9.3 | 20 | 0.6 | 1.9 | 90 | 60 × 80 | Z1 | 0.27 | E62.K80-50Z210 | 10 / FB2 |
| 6.8 | 2000 | 3.7 | 10.5 | 33 | 0.5 | 1.5 | 100 | 50 × 85 | G1 | 0.18 | E62.G85-68ZG10 | 21 / FB2 |
| 9.5 | 2000 | 2.5 | 7.1 | 40 | 0.6 | 1.9 | 110 | 60 × 105 | C68 | 0.31 | E62.K10-95ZC68 | 10 / FB1 |
| 10 | 2000 | 3.7 | 7.2 | 40 | 0.7 | 2.1 | 100 | 65 × 95 | G1 | 0.33 | E62.L95-103G10 | 10 / FB2 |
| 12 | 2000 | 2.9 | 6.5 | 30 | 0.8 | 2.4 | 110 | 65 × 105 | Z1 | 0.4 | E62.L10-123Z10 | 10 / FB1 |
| 15 | 2000 | 3.9 | 6.3 | 40 | 0.8 | 2.4 | 120 | 65 × 109 | G1 | 0.4 | E62.L10-153G10 | 10 / FB1 |
| 20 | 2000 | 4.7 | 5.1 | 30 | 0.8 | 2.4 | 120 | 65 × 135 | G11 | 0.5 | E62.L13-203G11 | 10 / FB0 |
| 26.5 | 2000 | 1.6 | 4.2 | 56 | 1.4 | 4 | 110 | 85 × 124 | S2 | 0.75 | E62.N12-273S20 | 5 / FB8 |
| 30 | 2000 | 5.3 | 4.3 | 40 | 1 | 3 | 130 | 65 × 160 | G1 | 0.6 | E62.L16-303G10 | 10 / FB7 |
| 32 | 2000 | 0.79 | 4.2 | 50 | 2 | 6 | 140 | 100 × 105 | C6 | 0.9 | E62.Q10-323C60 | 6 / FB10 |
| 33 | 2000 | 2.2 | 3.7 | 56 | 1.3 | 4 | 140 | 85 × 140 | S2 | 0.85 | E62.N14-333S20 | 5 / FB8 |
| 33 | 2000 | 1.3 | 3 | 80 | 2.2 | 7 | 160 | 85 × 176 | C6 | 1.2 | E62.N17-333C60 | 5 / FB8 |
| 40 | 2000 | 0.76 | 3 | 80 | 2.7 | 8.1 | 160 | 85 × 176 | C6 | 1.2 | E62.N17-403C60 | 5 / FB8 |
| 47 | 2000 | 1.6 | 3.1 | 56 | 1.8 | 5 | 110 | 95 × 149 | S2 | 1.1 | E62.P14-473S20 | 3 / FB8 |
| 53 | 2000 | 1 | 2.1 | 80 | 4 | 11 | 160 | 85 × 245 | C6 | 1.7 | E62.N24-533C60 | 5 / FB12 |
| 68 | 2000 | 0.81 | 1.9 | 80 | 3.6 | 10.8 | 160 | 85 × 280 | C6 | 1.8 | E62.N28-683C60 | 5 / FB10 |
| 80 | 1900 | 1 | 1.9 | 80 | 5 | 15 | 170 | 95 × 245 | C6 | 1.8 | E62.P24-803C60 | 3 / FB12 |
| 100 | 2000 | 1 | 2.2 | 50 | 3.2 | 9.6 | 150 | 116 × 176 | C6 | 2 | E62.R17-104C60 | 3 / FB8 |
| 150 | 2000 | 1.4 | 1.4 | 100 | 8 | 20 | 180 | 116 × 280 | C6 | 3.1 | E62.R28-154C60 | 3 / FB10 |
| U_N 1350V AC | | U_{rms} 960V | | | U_S 3300V | | U_{BB} 3375V DC | | U_{BG} 4200V AC | | | |
| 4 | 2250 | 5 | 10.5 | 26 | 0.3 | 1 | 120 | 50 × 85 | G1 | 0.2 | E62.G85-40ZG10 | 21 / FB2 |
| 5 | 2250 | 4.4 | 10.5 | 25 | 0.4 | 1.2 | 100 | 50 × 85 | G1 | 0.18 | E62.G85-50ZG10 | 21 / FB2 |
| 6.8 | 2250 | 4 | 9.5 | 25 | 0.5 | 1.6 | 110 | 55 × 85 | G1 | 0.21 | E62.H85-68ZG10 | 18 / FB1 |
| 10 | 2250 | 1.6 | 5.7 | 45 | 0.8 | 2.3 | 140 | 75 × 105 | C6 | 0.5 | E62.M10-103C60 | 8 / FB0 |
| 15 | 2250 | 1.2 | 5 | 50 | 1.1 | 3.3 | 120 | 85 × 105 | C6 | 0.6 | E62.N10-153C60 | 10 / FB10 |
| 16 | 2250 | 1.1 | 5 | 50 | 1.2 | 3.7 | 140 | 85 × 105 | C6 | 0.6 | E62.N10-163C60 | 10 / FB10 |
| 20 | 2250 | 0.96 | 4.5 | 50 | 1.5 | 4.6 | 140 | 95 × 105 | C6 | 0.8 | E62.P10-203C60 | 6 / FB10 |
| 22 | 2250 | 0.97 | 3.4 | 80 | 1.9 | 5.7 | 160 | 75 × 176 | C6 | 0.8 | E62.M17-223C60 | 5 / FB8 |
| 40 | 2250 | 0.71 | 2.7 | 80 | 3.1 | 9.3 | 160 | 95 × 176 | C6 | 1.3 | E62.P17-403C60 | 3 / FB8 |
| 47 | 2250 | 0.67 | 2.5 | 80 | 3.6 | 10.8 | 160 | 100 × 176 | C6 | 1.5 | E62.Q17-473C60 | 3 / FB8 |
| 68 | 2250 | 1 | 1.8 | 80 | 5 | 15 | 160 | 100 × 245 | C6 | 2 | E62.Q24-683C60 | 3 / FB12 |
| 68 | 2250 | 0.59 | 2.2 | 80 | 5.3 | 15.9 | 160 | 116 × 176 | C6 | 2 | E62.R17-683C60 | 3 / FB8 |
| 100 | 2250 | 0.6 | 1.6 | 100 | 7.7 | 20 | 170 | 116 × 245 | C6 | 2.7 | E62.R24-104C60 | 3 / FB12 |
| 150 | 2250 | 0.56 | 1.3 | 100 | 11.6 | 20 | 170 | 136 × 245 | C6 | 3.7 | E62.S24-154C60 | 2 / FB12 |
| 200 | 2250 | 0.62 | 1 | 100 | 15 | 20 | 190 | 136 × 320 | C6 | 4.9 | E62.S32-204C60 | 2 / FB13 |
| U_N 1700V AC | | U_{rms} 1200V | | | U_S 4200V | | U_{BB} 4200V DC | | U_{BG} 5000V AC | | | |
| 4 | 2800 | 2.8 | 5.7 | 48 | 0.8 | 1.8 | 140 | 75 × 105 | C6 | 0.5 | E62.M10-40ZC60 | 8 / FB0 |
| 6.8 | 2800 | 1.8 | 5.7 | 46 | 0.7 | 2 | 140 | 75 × 105 | C6 | 0.5 | E62.M10-68ZC60 | 8 / FB0 |
| 10 | 2800 | 1.3 | 5 | 50 | 1 | 2.9 | 140 | 85 × 105 | C6 | 0.6 | E62.N10-103C60 | 10 / FB10 |
| 12 | 2800 | 1.2 | 4.5 | 50 | 1.2 | 3.5 | 140 | 95 × 105 | C6 | 0.8 | E62.P10-123C60 | 6 / FB10 |

E62 HC - HIGH CURRENT
AC
1700...4000V AC

| C _N (μF) | U _N DC (V) | R _s (mΩ) | R _{th} (K/W) | I _{max} (A) | \hat{I} (kA) | I _s (kA) | L _s (nH) | D ₁ × L ₁ (mm) | Design Maßbild | m (kg) | order no. Bestell-Nr. | pcs / box Stk / Box |
|-------------------------------|--------------------------|------------------------------|--------------------------|----------------------------|-------------------|--------------------------------|------------------------|---|-------------------|-----------|--------------------------|------------------------|
| U_N 1700V AC | | U_{rms} 1200V | | U_s 4200V | | U_{BB} 4200V DC | | U_{BG} 5000V AC | | | | |
| 12 | 2800 | 1.4 | 3.4 | 80 | 1.9 | 5.7 | 160 | 75 × 176 | C6 | 0.8 | E62.M17-123C60 | 5 / FB8 |
| 25 | 2800 | 0.8 | 2.7 | 80 | 2.4 | 7.3 | 160 | 95 × 176 | C6 | 1.3 | E62.P17-253C60 | 3 / FB8 |
| 30 | 2800 | 0.73 | 2.5 | 80 | 2.9 | 8.7 | 160 | 100 × 176 | C6 | 1.5 | E62.Q17-303C60 | 3 / FB8 |
| 40 | 2800 | 0.65 | 2.2 | 80 | 3.9 | 11.7 | 160 | 116 × 176 | C6 | 2 | E62.R17-403C60 | 3 / FB8 |
| 60 | 2800 | 0.64 | 1.6 | 100 | 5.8 | 17.4 | 170 | 116 × 245 | C6 | 2.7 | E62.R24-603C60 | 3 / FB12 |
| 90 | 2800 | 0.58 | 1.3 | 100 | 8.7 | 20 | 170 | 136 × 245 | C6 | 3.7 | E62.S24-903C60 | 2 / FB12 |
| 100 | 2800 | 0.94 | 1.2 | 100 | 8 | 20 | 190 | 136 × 280 | C6 | 4.3 | E62.S28-104C60 | 2 / FB10 |
| 125 | 2800 | 0.64 | 1 | 100 | 12.1 | 20 | 190 | 136 × 320 | C6 | 4.9 | E62.S32-134C60 | 2 / FB13 |
| U_N 2000V AC | | U_{rms} 1400V | | U_s 5100V | | U_{BB} 5100V DC | | U_{BG} 5800V AC | | | | |
| 10 | 3400 | 2.1 | 3.4 | 40 | 1.2 | 3.5 | 170 | 75 × 176 | C6 | 0.8 | E62.M17-103C60 | 5 / FB8 |
| 15 | 3400 | 1.6 | 2.7 | 40 | 1 | 3.1 | 170 | 95 × 176 | C6 | 1.3 | E62.P17-153C60 | 3 / FB8 |
| 20 | 3400 | 1.3 | 2.5 | 50 | 2.3 | 7 | 160 | 100 × 176 | C6 | 1.5 | E62.Q17-203C60 | 3 / FB8 |
| 30 | 3400 | 1 | 2.2 | 50 | 3.6 | 10.8 | 160 | 116 × 176 | C6 | 2 | E62.R17-303C60 | 3 / FB8 |
| 40 | 3400 | 1.1 | 1.2 | 80 | 4.6 | 13.8 | 190 | 116 × 320 | C6 | 3.5 | E62.R32-403C60 | 3 / FB13 |
| 50 | 3400 | 0.88 | 1.3 | 100 | 9 | 20 | 170 | 136 × 245 | C6 | 3.7 | E62.S24-503C60 | 2 / FB12 |
| 54 | 3400 | 1.1 | 1.2 | 80 | 5.9 | 17.7 | 180 | 116 × 320 | C6 | 3.5 | E62.R32-543C60 | 3 / FB13 |
| 60 | 3400 | 1 | 1.2 | 100 | 6 | 18 | 180 | 116 × 320 | C6 | 3.5 | E62.R32-603C60 | 3 / FB13 |
| 90 | 3400 | 1 | 1 | 100 | 9.7 | 20 | 190 | 136 × 320 | C6 | 4.9 | E62.S32-903C60 | 2 / FB13 |
| U_N 2100V AC | | U_{rms} 1500V | | U_s 5400V | | U_{BB} 5400V DC | | U_{BG} 6200V AC | | | | |
| 13 | 3600 | 1.3 | 2.7 | 80 | 2.6 | 8 | 160 | 95 × 176 | C6 | 1.3 | E62.P17-133C60 | 3 / FB8 |
| 33 | 3600 | 1.2 | 1.9 | 80 | 3.3 | 9.9 | 150 | 116 × 205 | CR | 2.4 | E62.R20-333C60 | 3 / FB9 |
| 40 | 3600 | 1.1 | 1.2 | 100 | 5.4 | 16.2 | 180 | 116 × 320 | CR | 3.5 | E62.R32-403CR0 | 3 / FB13 |
| 60 | 3600 | 1 | 1 | 100 | 7.9 | 20 | 190 | 136 × 320 | CR | 4.9 | E62.S32-603CR0 | 2 / FB13 |
| 70 | 3600 | 1.1 | 1 | 100 | 8 | 20 | 190 | 136 × 320 | CR | 4.9 | E62.S32-703CR0 | 2 / FB13 |
| U_N 2400V AC | | U_{rms} 1700V | | U_s 6000V | | U_{BB} 6000V DC | | U_{BG} 6800V AC | | | | |
| 6.8 | 4000 | 2.5 | 3.4 | 40 | 0.9 | 2.8 | 160 | 75 × 176 | C6 | 0.8 | E62.M17-682C60 | 5 / FB8 |
| 10 | 4000 | 1.9 | 3 | 40 | 1.4 | 4.2 | 170 | 85 × 176 | C6 | 1.2 | E62.N17-103C60 | 5 / FB8 |
| 20 | 4000 | 1.6 | 2.2 | 50 | 2.7 | 8 | 160 | 116 × 176 | C6 | 2 | E62.R17-203C61 | 3 / FB8 |
| 22 | 4000 | 1.1 | 2.2 | 50 | 2.8 | 8.7 | 160 | 116 × 176 | CR | 2 | E62.R17-223CR0 | 3 / FB8 |
| 25 | 4000 | 0.59 | 1.9 | 80 | 5.6 | 16.8 | 160 | 136 × 176 | CR | 2.6 | E62.S17-253CR0 | 2 / FB8 |
| 33 | 4000 | 0.6 | 1.3 | 100 | 7.5 | 20 | 160 | 136 × 245 | CR | 3.7 | E62.S24-333CR0 | 2 / FB12 |
| U_N 4000V AC | | U_{rms} 2800V | | U_s 7500V | | U_{BB} 7500V DC | | U_{BG} 8200V AC | | | | |
| 0.2 | 5000 | 5.1 | 5.7 | 16 | 0.7 | 2.2 | 150 | 75 × 105 | CR | 0.6 | E62.M10-201CR0 | 5 / FB13 |
| 1 | 5000 | 3.9 | 5 | 40 | 0.8 | 2.4 | 150 | 75 × 120 | CR | 0.6 | E62.M12-102CR0 | 10 / FB11 |
| 1.8 | 5000 | 2.7 | 4.4 | 40 | 1.4 | 4 | 150 | 85 × 120 | CR | 0.9 | E62.N12-182CR0 | 5 / FB13 |
| 1.9 | 5000 | 2.6 | 3.9 | 40 | 1.4 | 4 | 150 | 95 × 120 | CR | 0.9 | E62.P12-192CR0 | 6 / FB13 |
| 2.2 | 5000 | 2 | 3.9 | 40 | 1.7 | 5.1 | 150 | 95 × 120 | CR | 0.9 | E62.P12-222CR0 | 6 / FB13 |
| 4.7 | 5000 | 1.2 | 2.3 | 40 | 3.7 | 11.1 | 170 | 95 × 205 | CR | 1.6 | E62.P20-472CR0 | 3 / FB9 |
| 6 | 5000 | 0.8 | 1.9 | 80 | 4.7 | 14.1 | 160 | 116 × 205 | CR | 2.7 | E62.R20-602CR0 | 3 / FB9 |
| 10 | 5000 | 2.6 | 1.4 | 50 | 6 | 18 | 180 | 116 × 280 | CR | 3.1 | E62.R28-103CR0 | 3 / FB10 |



E62 TAB - FAST ON TERMINALS
AC
420.....500V AC

for latest edition and updates
 check www.powercapacitors.info



AC-Capacitors for General Use
 Wechsellspannungskondensatoren (allgemeine Anwendung)



UL: up to_bis zu 930V AC/660V rms
CSA: up to_bis zu 850V AC/600V rms
 Designs D1 and D2 only_Nur Maßbild D1 und D2

Standards IEC 61071, UL810, CSA22.2 No.190
 optional IEC 61881

can Gehäuse aluminium Aluminium
mounting position Einbaulage ... 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%)
tanδ₀ 2 × 10⁻⁴

operating temperatures Grenztemperaturen
 Θ_{min} ... Θ_{max} -40 ... +85°C
 (lower temperatures on request)
 Θ_{HOTSPOT} ≤ 85°C

storing temperature Lagertemperatur -40 ... +85°C

statistical lifetime statistische Lebensdauer > 200 000 h
Failure rate Ausfallrate 100 FIT *

(reference interval_Referenzintervall 100000 h, Θ_{HOTSPOT} ≤70°C)
 * FIT curve see pg. 32_FIT Kurve siehe Seite 32



| C _N (μF) | U _N DC (V) | R _S (mΩ) | R _{th} (K/W) | I _{max} (A) | Î (kA) | I _S (kA) | L _e (nH) | D ₁ × L ₁ (mm) | Design Maßbild | m (kg) | order no. Bestell-Nr. | pcs / box Stk / Box |
|------------------------------|--------------------------|-----------------------------|--------------------------|----------------------------|------------|--------------------------------|------------------------|---|-------------------|-----------|--------------------------|------------------------|
| U_N 420V AC | | U_{rms} 300V | | U_S 1050V | | U_{BB} 1050V DC | | U_{B6} 3000V AC | | | | |
| 15 | 700 | 3.1 | 21.9 | 16 | 0.3 | 0.9 | 60 | 35 × 58 | D1 | 0.07 | E62.D58-153D10 | 50 / FB4 |
| 20 | 700 | 2.6 | 19.2 | 16 | 0.5 | 1.5 | 60 | 40 × 58 | D1 | 0.08 | E62.E58-203D10 | 36 / FB4 |
| 22 | 700 | 5.4 | 15.7 | 10 | 0.3 | 0.9 | 80 | 35 × 81 | E2 | 0.1 | E62.D81-223E20 | 50 / FB3 |
| 24 | 700 | 5 | 15.7 | 10 | 0.3 | 0.9 | 80 | 35 × 81 | E2 | 0.1 | E62.D81-243E20 | 50 / FB3 |
| 24 | 700 | 5.7 | 15.7 | 10 | 0.3 | 0.9 | 80 | 35 × 81 | D1 | 0.12 | E62.D81-243D10 | 50 / FB3 |
| 35 | 700 | 4 | 13.9 | 16 | 0.4 | 1.2 | 80 | 40 × 81 | D1 | 0.11 | E62.E81-353D10 | 36 / FB3 |
| 50 | 700 | 3.3 | 12.2 | 16 | 0.57 | 1.71 | 80 | 45 × 81 | D1 | 0.14 | E62.F81-503D10 | 32 / FB3 |
| 75 | 700 | 2.7 | 9.5 | 16 | 0.75 | 2.6 | 80 | 55 × 85 | D1 | 0.21 | E62.H85-753D10 | 18 / FB3 |
| 80 | 700 | 4.7 | 9.5 | 16 | 0.9 | 2.7 | 80 | 55 × 85 | D1 | 0.21 | E62.H85-803D10 | 18 / FB3 |
| 90 | 700 | 2.5 | 8.7 | 16 | 1 | 3 | 80 | 60 × 85 | D1 | 0.25 | E62.K85-903D10 | 18 / FB3 |
| 220 | 700 | 4.5 | 4.3 | 16 | 1.2 | 3.6 | 130 | 65 × 160 | D2 | 0.6 | E62.L16-224D20 | 10 / FB7 |
| 300 | 700 | 4.1 | 3.7 | 16 | 1.6 | 4.8 | 90 | 75 × 160 | D2 | 0.7 | E62.M16-304D20 | 8 / FB7 |
| U_N 500V AC | | U_{rms} 360V | | U_S 1260V | | U_{BB} 1260V DC | | U_{B6} 3000V AC | | | | |
| 1 | 840 | 18.6 | 37.1 | 6 | 0.1 | 0.3 | 60 | 25 × 48 | E1 | 0.03 | E62.B48-102E10 | 98 / FB4 |
| 20 | 840 | 5.4 | 13.8 | 16 | 0.3 | 0.8 | 80 | 40 × 81 | D1 | 0.11 | E62.E81-203D10 | 36 / FB3 |
| 25 | 840 | 4.3 | 13.8 | 16 | 0.4 | 1.1 | 80 | 40 × 81 | D1 | 0.11 | E62.E81-253D10 | 36 / FB3 |
| 33 | 840 | 3.7 | 12.2 | 16 | 0.5 | 1.4 | 80 | 45 × 81 | D1 | 0.14 | E62.F81-333D10 | 32 / FB3 |
| 50 | 840 | 3 | 9.5 | 16 | 0.7 | 2.1 | 80 | 55 × 85 | D1 | 0.21 | E62.H85-503D10 | 18 / FB3 |
| 60 | 840 | 2.8 | 8.7 | 16 | 0.8 | 2.5 | 80 | 60 × 85 | D1 | 0.25 | E62.K85-603D10 | 18 / FB3 |
| 160 | 840 | 4.2 | 4.3 | 16 | 1 | 3 | 100 | 65 × 160 | D2 | 0.6 | E62.L16-164D20 | 10 / FB7 |
| 200 | 840 | 3.9 | 3.7 | 16 | 1.3 | 3.9 | 140 | 75 × 160 | D2 | 0.7 | E62.M16-204D20 | 8 / FB7 |

Other values, dimensions and terminal combinations available on request.
 Andere Werte, Abmessungen und Anschlußkombinationen auf Anfrage erhältlich.



E62 TAB - FAST ON TERMINALS
AC
640...680V AC

| C_N (μ F) | U_N DC (V) | R_s (m Ω) | R_{th} (K/W) | I_{max} (A) | \hat{I} (kA) | I_s (kA) | L_s (nH) | $D_1 \times L_1$ (mm) | Design Maßbild | m (kg) | order no. Bestell-Nr. | pcs / box Stk / Box |
|---------------------------------|-----------------|----------------------------------|-------------------|-------------------------------|-------------------|-------------------------------------|---------------|-------------------------------------|-------------------|-----------|--------------------------|------------------------|
| U_N 640V AC | | U_{rms} 450V | | U_s 1500V | | U_{BB} 1500V DC | | U_{BG} 3000V AC | | | | |
| 0.47 | 1000 | 7.4 | 37.1 | 8 | 0.1 | 0.3 | 60 | 25 × 48 | E1 | 0.04 | E62.B48-471E10 | 98 / FB6 |
| 4 | 1000 | 5.9 | 25.6 | 10 | 0.2 | 0.6 | 60 | 30 × 58 | E1 | 0.05 | E62.C58-402E10 | 72 / FB4 |
| 4.7 | 1000 | 5.4 | 25.6 | 10 | 0.24 | 0.72 | 60 | 30 × 58 | E1 | 0.05 | E62.C58-472E10 | 72 / FB4 |
| 5 | 1000 | 4.9 | 25.6 | 10 | 0.26 | 0.8 | 60 | 30 × 58 | E1 | 0.05 | E62.C58-502E10 | 72 / FB4 |
| 6 | 1000 | 4.5 | 21.9 | 16 | 0.35 | 1.02 | 60 | 35 × 58 | E2 | 0.07 | E62.D58-602E20 | 50 / FB4 |
| 6.8 | 1000 | 4.1 | 21.9 | 16 | 0.35 | 1.04 | 60 | 35 × 58 | E2 | 0.07 | E62.D58-682E20 | 50 / FB4 |
| 10 | 1000 | 3.2 | 19.2 | 16 | 0.4 | 1.2 | 60 | 40 × 58 | D1 | 0.08 | E62.E58-103D10 | 36 / FB4 |
| 15 | 1000 | 5.5 | 13.8 | 16 | 0.24 | 0.72 | 80 | 40 × 81 | D1 | 0.11 | E62.E81-153D10 | 36 / FB3 |
| 18 | 1000 | 4.8 | 13.8 | 16 | 0.29 | 0.87 | 80 | 40 × 81 | D1 | 0.11 | E62.E81-183D10 | 36 / FB3 |
| 22 | 1000 | 4.3 | 12.2 | 16 | 0.35 | 1.1 | 80 | 45 × 81 | D1 | 0.14 | E62.F81-223D10 | 32 / FB3 |
| 25 | 1000 | 4 | 12.2 | 16 | 0.4 | 1.2 | 80 | 45 × 81 | D1 | 0.14 | E62.F81-253D10 | 32 / FB3 |
| 40 | 1000 | 3.4 | 9.5 | 16 | 0.6 | 1.9 | 80 | 55 × 85 | D1 | 0.21 | E62.H85-403D10 | 18 / FB3 |
| 47 | 1000 | 2.9 | 8.7 | 16 | 0.8 | 2.3 | 80 | 60 × 85 | D1 | 0.25 | E62.K85-473D10 | 18 / FB3 |
| 50 | 1000 | 3.9 | 7.6 | 16 | 0.6 | 1.9 | 120 | 60 × 98 | D1 | 0.4 | E62.K98-503D10 | 18 / FB2 |
| 60 | 1000 | 3.2 | 7.6 | 16 | 1 | 3 | 120 | 60 × 98 | D1 | 0.4 | E62.K98-603D10 | 18 / FB2 |
| 100 | 1000 | 5.1 | 5 | 16 | 0.8 | 2.4 | 120 | 60 × 148 | D1 | 0.45 | E62.K14-104D10 | 18 / FB7 |
| 120 | 1000 | 5 | 4.3 | 16 | 0.9 | 2.7 | 130 | 65 × 160 | D2 | 0.6 | E62.L16-124D20 | 10 / FB7 |
| 150 | 1000 | 4.6 | 3.7 | 16 | 1.1 | 3.3 | 110 | 75 × 160 | D2 | 0.7 | E62.M16-154D20 | 8 / FB7 |
| U_N 680V AC | | U_{rms} 480V | | U_s 1680V | | U_{BB} 1680V DC | | U_{BG} 3000V AC | | | | |
| 3.3 | 1120 | 6.5 | 25.6 | 15 | 0.17 | 0.5 | 60 | 30 × 58 | E1 | 0.05 | E62.C58-332E10 | 72 / FB4 |
| 12 | 1120 | 5.8 | 13.8 | 16 | 0.2 | 0.7 | 80 | 40 × 81 | D1 | 0.11 | E62.E81-123D10 | 36 / FB3 |
| 15 | 1120 | 5.4 | 13.8 | 16 | 0.3 | 0.8 | 80 | 40 × 81 | D1 | 0.11 | E62.E81-153D10 | 36 / FB3 |
| 20 | 1120 | 4.2 | 12.2 | 16 | 0.4 | 1.1 | 80 | 45 × 81 | D1 | 0.14 | E62.F81-203D10 | 32 / FB3 |
| 30 | 1120 | 3.3 | 9.5 | 16 | 0.5 | 1.6 | 80 | 55 × 85 | D1 | 0.21 | E62.H85-303D10 | 18 / FB3 |
| 33 | 1120 | 3.2 | 8.7 | 16 | 0.6 | 1.8 | 80 | 60 × 85 | D1 | 0.25 | E62.K85-333D10 | 18 / FB3 |
| 40 | 1120 | 3.3 | 7.2 | 16 | 0.7 | 2.1 | 120 | 65 × 95 | D2 | 0.33 | E62.L95-403D20 | 10 / FB1 |
| 50 | 1120 | 5.2 | 6.5 | 16 | 0.5 | 1.6 | 100 | 55 × 124 | D1 | 0.3 | E62.H12-503D10 | 18 / FB1 |
| 50 | 1120 | 3.7 | 6.3 | 16 | 0.7 | 2.2 | 120 | 65 × 109 | D2 | 0.4 | E62.L10-503D20 | 10 / FB1 |
| 60 | 1120 | 5 | 6 | 16 | 0.6 | 1.9 | 140 | 60 × 124 | D1 | 0.4 | E62.K12-603D10 | 18 / FB1 |
| 70 | 1120 | 6 | 5 | 16 | 0.6 | 1.9 | 140 | 60 × 148 | D1 | 0.45 | E62.K14-703D10 | 18 / FB7 |
| 90 | 1120 | 4.8 | 4.3 | 16 | 0.78 | 2.4 | 110 | 65 × 160 | D2 | 0.6 | E62.L16-903D20 | 10 / FB7 |
| 100 | 1120 | 5.1 | 3.7 | 16 | 0.87 | 2.6 | 100 | 75 × 160 | D2 | 0.7 | E62.M16-104D20 | 8 / FB7 |



E62 TAB - FAST ON TERMINALS

AC 750....1000V AC



| C_N (μF) | U_{DC} (V) | R_S (m Ω) | R_{th} (K/W) | I_{max} (A) | \hat{I} (kA) | I_S (kA) | L_e (nH) | $D_1 \times L_1$ (mm) | Design Maßbild | m (kg) | order no. Bestell-Nr. | pcs / box Stk / Box |
|----------------------------------|-----------------|----------------------------------|-------------------|-------------------------------|-------------------|-------------------------------------|---------------|-------------------------------------|-------------------|-----------|--------------------------|------------------------|
| U_N 750V AC | | U_{rms} 530V | | U_S 1900V | | U_{BB} 1890V DC | | U_{BG} 3000V AC | | | | |
| 4.7 | 1200 | 11.1 | 18.3 | 10 | 0.22 | 0.66 | 60 | 30 × 81 | E1 | 0.07 | E62.C81-472E10 | 72 / FB3 |
| 6.8 | 1200 | 3.8 | 19.2 | 16 | 0.2 | 0.60 | 60 | 40 × 85 | D1 | 0.08 | E62.E58-682D10 | 36 / FB4 |
| 10 | 1200 | 6.1 | 13.8 | 16 | 0.45 | 1.35 | 110 | 40 × 81 | D1 | 0.11 | E62.E81-103D10 | 36 / FB3 |
| 10 | 1200 | 3 | 14.4 | 16 | 0.4 | 1.20 | 100 | 50 × 62 | D1 | 0.14 | E62.G62-103D10 | 21 / FB3 |
| 15 | 1260 | 5.9 | 11.6 | 16 | 0.3 | 0.9 | 110 | 45 × 85 | B2 | 0.14 | E62.F85-153B20 | 21 / FB1 |
| 16 | 1200 | 5.1 | 10.5 | 16 | 0.3 | 1 | 80 | 50 × 85 | D1 | 0.18 | E62.G85-163D10 | 21 / FB3 |
| 22 | 1260 | 3.5 | 8.7 | 16 | 0.5 | 1.5 | 120 | 60 × 85 | D1 | 0.25 | E62.K85-223D10 | 18 / FB3 |
| 26 | 1260 | 3.4 | 8.7 | 16 | 0.5 | 1.5 | 120 | 60 × 85 | D1 | 0.25 | E62.K85-263D10 | 18 / FB3 |
| 29 | 1260 | 3.2 | 8.7 | 16 | 0.6 | 1.8 | 120 | 60 × 85 | D1 | 0.25 | E62.K85-293D10 | 18 / FB3 |
| 33 | 750 | 11.4 | 6 | 16 | 0.4 | 1 | 120 | 50 × 148 | D1 | 0.3 | E62.G14-333D10 | 21 / FB0 |
| 70 | 1260 | 5.6 | 4.3 | 16 | 0.68 | 2 | 140 | 65 × 160 | D2 | 0.6 | E62.L16-703D20 | 10 / FB7 |
| 80 | 1200 | 5.3 | 3.7 | 20 | 0.78 | 2.3 | 130 | 75 × 160 | D2 | 0.7 | E62.M16-803D20 | 8 / FB7 |
| U_N 850V AC | | U_{rms} 600V | | U_S 2100V | | U_{BB} 2100V DC | | U_{BG} 3000V AC | | | | |
| 2 | 1200 | 8.1 | 25.6 | 10 | 0.18 | 0.5 | 60 | 30 × 58 | E1 | 0.05 | E62.C58-202E10 | 72 / FB4 |
| 2 | 1400 | 8.1 | 25.6 | 10 | 0.18 | 0.5 | 60 | 30 × 58 | E4 | 0.07 | E62.C58-202E40 | 72 / FB4 |
| 2.2 | 1200 | 7.5 | 25.6 | 10 | 0.2 | 0.6 | 60 | 30 × 58 | E1 | 0.05 | E62.C58-222E10 | 72 / FB4 |
| 2.2 | 1400 | 7.5 | 25.6 | 10 | 0.2 | 0.6 | 60 | 30 × 58 | E4 | 0.07 | E62.C58-222E40 | 72 / FB4 |
| 3.3 | 1200 | 13.8 | 18.3 | 10 | 0.1 | 0.3 | 80 | 30 × 81 | E1 | 0.07 | E62.C81-332E10 | 72 / FB3 |
| 3.3 | 1200 | 5.6 | 21.9 | 16 | 0.1 | 0.4 | 60 | 35 × 58 | D1 | 0.07 | E62.D58-332D10 | 50 / FB4 |
| 4 | 1200 | 11.7 | 18.3 | 10 | 0.18 | 0.5 | 80 | 30 × 81 | E1 | 0.07 | E62.C81-402E10 | 72 / FB3 |
| 4 | 1400 | 11.7 | 18.3 | 10 | 0.18 | 0.5 | 80 | 30 × 81 | E4 | 0.08 | E62.C81-402E40 | 72 / FB3 |
| 12 | 1400 | 6.2 | 12 | 16 | 0.3 | 0.8 | 110 | 45 × 85 | B2 | 0.14 | E62.F85-123B20 | 21 / FB1 |
| 15 | 1200 | 4.3 | 10 | 16 | 0.3 | 1 | 80 | 50 × 85 | D1 | 0.18 | E62.G85-153D10 | 21 / FB3 |
| 25 | 1200 | 3.6 | 7 | 16 | 0.6 | 1.7 | 120 | 65 × 95 | D2 | 0.33 | E62.L95-253D20 | 10 / FB1 |
| 55 | 1200 | 6 | 4.3 | 16 | 0.6 | 1.8 | 130 | 65 × 160 | D2 | 0.6 | E62.L16-553D20 | 10 / FB7 |
| 68 | 1200 | 5.4 | 3.7 | 16 | 0.74 | 2.2 | 100 | 75 × 160 | D2 | 0.7 | E62.M16-683D20 | 8 / FB7 |
| U_N 1000V AC | | U_{rms} 720V | | U_S 2500V | | U_{BB} 2520V DC | | U_{BG} 3500V AC | | | | |
| 1.5 | 1200 | 5 | 25.6 | 10 | 0.3 | 0.9 | 60 | 30 × 58 | E1 | 0.05 | E62.C58-152E10 | 72 / FB4 |
| 1.5 | 1680 | 5 | 25.6 | 10 | 0.3 | 0.9 | 60 | 30 × 58 | E4 | 0.07 | E62.C58-152E40 | 72 / FB4 |
| 2.2 | 1200 | 3.8 | 21.9 | 16 | 0.25 | 0.8 | 60 | 35 × 58 | E2 | 0.07 | E62.D58-222E20 | 50 / FB4 |
| 3 | 1200 | 7.2 | 18.3 | 10 | 0.35 | 1.05 | 80 | 30 × 81 | E1 | 0.07 | E62.C81-302E10 | 72 / FB3 |
| 3 | 1680 | 7.2 | 18.3 | 10 | 0.35 | 1.05 | 80 | 30 × 81 | E4 | 0.07 | E62.C81-302E40 | 72 / FB3 |
| 4 | 1200 | 5.8 | 15.7 | 10 | 0.45 | 1.35 | 80 | 35 × 81 | E2 | 0.1 | E62.D81-402E20 | 50 / FB3 |
| 5 | 1200 | 5 | 14 | 16 | 0.6 | 1.8 | 80 | 40 × 81 | D1 | 0.11 | E62.E81-502D10 | 36 / FB3 |
| 6.8 | 1200 | 4.1 | 12.2 | 16 | 0.8 | 2.4 | 80 | 45 × 81 | D1 | 0.14 | E62.F81-682D10 | 32 / FB3 |
| 8 | 1200 | 3.7 | 12.2 | 16 | 0.46 | 1.38 | 80 | 45 × 81 | D1 | 0.14 | E62.F81-802D10 | 32 / FB3 |
| 8 | 1680 | 5 | 11.6 | 16 | 0.5 | 1.4 | 110 | 45 × 85 | B2 | 0.14 | E62.F85-802B20 | 21 / FB1 |
| 15 | 1200 | 2.7 | 8.7 | 16 | 0.9 | 2.6 | 110 | 60 × 85 | D1 | 0.25 | E62.K85-153D10 | 18 / FB3 |
| 20 | 1200 | 2.8 | 7.2 | 16 | 1.7 | 5.1 | 120 | 65 × 95 | D2 | 0.33 | E62.L95-203D20 | 10 / FB1 |
| 38 | 1200 | 4.8 | 4.3 | 20 | 1 | 3 | 140 | 65 × 160 | D2 | 0.6 | E62.L16-383D20 | 10 / FB7 |
| 53 | 1200 | 4.3 | 3.7 | 20 | 1.4 | 4.2 | 130 | 75 × 160 | D2 | 0.7 | E62.M16-533D20 | 8 / FB7 |

Other values, dimensions and terminal combinations available on request.
Andere Werte, Abmessungen und Anschlußkombinationen auf Anfrage erhältlich.



E62 TAB - FAST ON TERMINALS
AC
1200.....1700V AC

| C _N (µF) | U _N DC (V) | R _s (mΩ) | R _{th} (K/W) | I _{max} (A) | Î (kA) | I _s (kA) | L _e (nH) | D ₁ × L ₁ (mm) | Design Maßbild | m (kg) | order no. Bestell-Nr. | pcs / box Stk / Box |
|-------------------------------|--------------------------|------------------------------|--------------------------|----------------------------|------------|--------------------------------|------------------------|---|-------------------|-----------|--------------------------|------------------------|
| U_N 1200V AC | | U_{rms} 850V | | U_s 3000V | | U_{BB} 3000V DC | | U_{BG} 4000V AC | | | | |
| 0.1 | 1200 | 15 | 30.7 | 8 | 0.1 | 0.3 | 60 | 25 × 58 | E1 | 0.05 | E62.B58-101E10 | 98 / FB4 |
| 0.1 | 1200 | 12.7 | 25.6 | 8 | 0.1 | 0.3 | 60 | 30 × 58 | E1 | 0.05 | E62.C58-101E10 | 72 / FB4 |
| 0.15 | 1200 | 10.4 | 25.6 | 8 | 0.1 | 0.3 | 60 | 30 × 58 | E1 | 0.05 | E62.C58-151E10 | 72 / FB4 |
| 0.22 | 1200 | 7.5 | 25.6 | 10 | 0.2 | 0.6 | 60 | 30 × 58 | E1 | 0.05 | E62.C58-221E10 | 72 / FB4 |
| 0.33 | 1200 | 6.5 | 25.6 | 10 | 0.2 | 0.6 | 60 | 30 × 58 | E1 | 0.05 | E62.C58-331E10 | 72 / FB4 |
| 0.47 | 1200 | 8.2 | 25.6 | 10 | 0.2 | 0.6 | 60 | 30 × 58 | E1 | 0.05 | E62.C58-471E10 | 72 / FB4 |
| 0.5 | 1200 | 5.9 | 25.6 | 10 | 0.16 | 0.48 | 60 | 30 × 58 | E1 | 0.05 | E62.C58-501E10 | 72 / FB4 |
| 0.5 | 2000 | 5.9 | 25.6 | 10 | 0.16 | 0.5 | 60 | 30 × 58 | E4 | 0.07 | E62.C58-501E40 | 50 / FB4 |
| 0.68 | 1200 | 6.6 | 25.6 | 10 | 0.22 | 0.7 | 60 | 30 × 58 | E1 | 0.05 | E62.C58-681E10 | 72 / FB4 |
| 1 | 1200 | 6 | 25.6 | 10 | 0.25 | 0.8 | 60 | 30 × 58 | E1 | 0.05 | E62.C58-102E10 | 72 / FB4 |
| 1 | 2000 | 6 | 25.6 | 10 | 0.25 | 0.8 | 60 | 30 × 58 | E4 | 0.07 | E62.C58-102E40 | 50 / FB4 |
| 1.2 | 1200 | 5.6 | 25.6 | 10 | 0.28 | 0.8 | 60 | 30 × 58 | E1 | 0.05 | E62.C58-122E10 | 72 / FB3 |
| 1.5 | 1200 | 9.9 | 18.3 | 10 | 0.23 | 0.7 | 60 | 30 × 81 | E1 | 0.07 | E62.C81-152E10 | 72 / FB3 |
| 2 | 1200 | 8.7 | 18.3 | 10 | 0.25 | 0.8 | 60 | 30 × 81 | E1 | 0.07 | E62.C81-202E10 | 72 / FB3 |
| 2 | 2000 | 8.7 | 18.3 | 10 | 0.25 | 0.8 | 60 | 30 × 81 | E4 | 0.09 | E62.C81-202E40 | 50 / FB2 |
| 2.2 | 1200 | 11.1 | 16 | 10 | 0.2 | 0.6 | 90 | 30 × 93 | E1 | 0.08 | E62.C93-222E10 | 72 / FB3 |
| 2.2 | 2000 | 11.1 | 16 | 10 | 0.2 | 0.6 | 90 | 30 × 93 | E4 | 0.08 | E62.C93-222E40 | 50 / FB2 |
| 3.3 | 2000 | 4 | 14.4 | 16 | 0.8 | 2.4 | 80 | 50 × 62 | B2 | 0.15 | E62.G62-332B20 | 21 / FB2 |
| 4 | 1200 | 5.2 | 13.8 | 16 | 0.3 | 0.9 | 80 | 40 × 81 | D1 | 0.11 | E62.E81-402D10 | 36 / FB3 |
| 4.7 | 1200 | 4.7 | 13.8 | 16 | 0.42 | 1.3 | 60 | 40 × 81 | D1 | 0.11 | E62.E81-472D10 | 36 / FB3 |
| 5 | 1200 | 4.5 | 12.2 | 16 | 0.35 | 1.1 | 80 | 45 × 81 | D1 | 0.14 | E62.F81-502D10 | 32 / FB3 |
| 5.75 | 1200 | 3.8 | 10.5 | 16 | 0.5 | 1.5 | 80 | 50 × 85 | D1 | 0.18 | E62.G85-582D10 | 21 / FB3 |
| 6.8 | 1200 | 3.7 | 10.5 | 16 | 0.5 | 1.5 | 80 | 50 × 85 | D1 | 0.18 | E62.G85-682D10 | 21 / FB3 |
| 10 | 1200 | 3.1 | 8.7 | 16 | 0.7 | 2.1 | 80 | 60 × 85 | D1 | 0.25 | E62.K85-103D10 | 18 / FB3 |
| 15 | 1200 | 4.7 | 6.5 | 16 | 0.6 | 1.8 | 100 | 55 × 124 | D1 | 0.3 | E62.H12-153D10 | 18 / FB1 |
| 22 | 1200 | 5.4 | 4.9 | 16 | 1.2 | 3.6 | 100 | 60 × 151 | D1 | 0.4 | E62.K15-223D10 | 18 / FB0 |
| 30 | 1200 | 4.5 | 4.3 | 16 | 1 | 3 | 130 | 65 × 160 | D2 | 0.6 | E62.L16-303D20 | 10 / FB7 |
| 33 | 1200 | 4.8 | 3.7 | 16 | 0.93 | 2.79 | 120 | 75 × 160 | D2 | 0.7 | E62.M16-333D20 | 8 / FB7 |
| 40 | 1200 | 4.5 | 3.7 | 16 | 1.2 | 3.6 | 130 | 75 × 160 | D2 | 0.7 | E62.M16-403D20 | 8 / FB7 |
| U_N 1350V AC | | U_{rms} 960V | | U_s 3300V | | U_{BB} 3375V DC | | U_{BG} 4200V AC | | | | |
| 1.5 | 2250 | 9.9 | 18.3 | 10 | 0.23 | 0.7 | 80 | 30 × 81 | E4 | 0.09 | E62.C81-152E40 | 50 / FB2 |
| 4 | 2250 | 6 | 11.6 | 16 | 0.32 | 1 | 130 | 45 × 85 | B2 | 0.14 | E62.F85-402B20 | 21 / FB1 |
| U_N 1700V AC | | U_{rms} 1200V | | U_s 4200V | | U_{BB} 4200V DC | | U_{BG} 5000V AC | | | | |
| 0.33 | 2800 | 6.5 | 25.6 | 10 | 0.2 | 0.6 | 60 | 30 × 58 | E4 | 0.07 | E62.C58-331E40 | 50 / FB4 |
| 0.47 | 2800 | 8.2 | 25.6 | 10 | 0.2 | 0.6 | 60 | 30 × 58 | E4 | 0.07 | E62.C58-471E40 | 50 / FB4 |
| 0.68 | 2800 | 16.1 | 18.3 | 10 | 0.2 | 0.6 | 80 | 30 × 81 | E4 | 0.09 | E62.C81-681E40 | 50 / FB2 |
| 1 | 2800 | 11.5 | 18.3 | 10 | 0.2 | 0.6 | 80 | 30 × 81 | E4 | 0.09 | E62.C81-102E40 | 50 / FB2 |
| 1 | 2800 | 5.8 | 16 | 16 | 0.4 | 1.2 | 150 | 45 × 62 | B2 | 0.1 | E62.F62-102B20 | 21 / FB3 |
| 1.5 | 2800 | 6.4 | 11.6 | 16 | 0.5 | 1.5 | 120 | 45 × 85 | B2 | 0.14 | E62.F85-152B20 | 21 / FB1 |
| 2.2 | 2800 | 7.3 | 11.6 | 10 | 0.2 | 0.6 | 80 | 45 × 85 | B2 | 0.14 | E62.F85-222B20 | 21 / FB1 |
| 2.5 | 2800 | 6.8 | 11.6 | 16 | 0.2 | 0.7 | 120 | 45 × 85 | B2 | 0.14 | E62.F85-252B20 | 21 / FB1 |
| 3.3 | 2800 | 5.9 | 10.5 | 16 | 0.3 | 1 | 120 | 50 × 85 | B2 | 0.17 | E62.G85-332B20 | 21 / FB1 |
| 4.7 | 2800 | 5 | 9.5 | 16 | 0.5 | 1.4 | 120 | 55 × 85 | B2 | 0.21 | E62.H85-472B20 | 18 / FB2 |
| 8.2 | 2800 | 8.9 | 5.4 | 16 | 0.4 | 1.1 | 190 | 55 × 151 | B2 | 0.4 | E62.H15-822B20 | 12 / FB8 |



E62 TAB - FAST ON TERMINALS

AC 2100...5000V AC



| C_N (μF) | U_{DC} (V) | R_S ($\text{m}\Omega$) | R_{th} (K/W) | I_{max} (A) | \hat{I} (kA) | I_S (kA) | L_e (nH) | $D_1 \times L_1$ (mm) | Design Maßbild | m (kg) | order no. Bestell-Nr. | pcs / box Stk / Box |
|----------------------------------|-----------------|-----------------------------------|-------------------|------------------|--------------------------------|---------------|-------------------------------------|--------------------------|-------------------------------------|-----------|--------------------------|------------------------|
| U_N 2100V AC | | U_{rms} 1500V | | | U_S 54000V | | U_{BB} 5400V DC | | U_{BG} 6200V AC | | | |
| 0.1 | 3600 | 12.7 | 25.6 | 9 | 0.1 | 0.3 | 60 | 30 × 58 | E4 | 0.07 | E62.C58-101E40 | 50 / FB4 |
| 0.15 | 3600 | 10.4 | 25.6 | 9 | 0.1 | 0.3 | 60 | 30 × 58 | E4 | 0.07 | E62.C58-151E40 | 50 / FB4 |
| 0.22 | 3600 | 7.5 | 25.6 | 10 | 0.2 | 0.6 | 60 | 30 × 58 | E4 | 0.07 | E62.C58-221E40 | 50 / FB4 |
| 0.22 | 3600 | 6.8 | 16 | 16 | 0.15 | 0.45 | 100 | 45 × 62 | B2 | 0.1 | E62.F62-221B20 | 21 / FB3 |
| 0.47 | 3600 | 5.7 | 16 | 16 | 0.4 | 1.2 | 100 | 45 × 62 | B2 | 0.1 | E62.F62-471B21 | 21 / FB3 |
| 0.68 | 3600 | 4.7 | 14.4 | 16 | 0.5 | 1.5 | 100 | 50 × 62 | B2 | 0.15 | E62.G62-681B20 | 21 / FB2 |
| 1 | 3600 | 7.4 | 9.4 | 16 | 0.8 | 2.4 | 140 | 45 × 105 | B2 | 0.18 | E62.F10-102B21 | 21 / FB1 |
| 1.5 | 3600 | 5.7 | 7.7 | 16 | 1.2 | 3.6 | 120 | 55 × 105 | B2 | 0.26 | E62.H10-152B20 | 18 / FB0 |
| 2 | 3500 | 5.9 | 9.4 | 16 | 0.8 | 2.25 | 120 | 45 × 105 | B2 | 0.18 | E62.F10-202B20 | 21 / FB1 |
| U_N 2400V AC | | U_{rms} 1700V | | | U_S 6000V | | U_{BB} 6000V DC | | U_{BG} 6800V AC | | | |
| 2 | 4000 | 5.6 | 8.5 | 16 | 0.5 | 1.5 | 120 | 50 × 105 | B2 | 0.24 | E62.G10-202B20 | 21 / FB0 |
| 2.2 | 4000 | 5 | 7.4 | 16 | 0.5 | 1.5 | 120 | 55 × 105 | B2 | 0.26 | E62.H10-222B20 | 18 / FB0 |
| 4 | 4000 | 7.5 | 5.4 | 16 | 0.6 | 1.8 | 190 | 55 × 151 | B2 | 0.4 | E62.H15-402B20 | 12 / FB8 |
| U_N 4000V AC | | U_{rms} 2800V | | | U_S 7500V | | U_{BB} 7500V DC | | U_{BG} 8200V AC | | | |
| 0.1 | 5000 | 9.6 | 12.2 | 16 | 0.4 | 1.2 | 100 | 45 × 81 | B2 | 0.14 | E62.F81-101B20 | 21 / FB1 |
| 0.15 | 5000 | 7 | 12.2 | 16 | 0.5 | 1.5 | 90 | 45 × 81 | B2 | 0.14 | E62.F81-151B20 | 21 / FB1 |
| 0.22 | 5000 | 14.5 | 9.4 | 16 | 0.4 | 1.3 | 140 | 45 × 105 | B2 | 0.18 | E62.F10-221B21 | 21 / FB1 |
| 0.22 | 5000 | 6.9 | 7.1 | 16 | 0.7 | 2.1 | 140 | 60 × 105 | CD | 0.3 | E62.K10-221C00 | 10 / FB0 |
| 0.33 | 5000 | 14 | 9.4 | 16 | 0.3 | 0.9 | 140 | 45 × 105 | B2 | 0.18 | E62.F10-331B20 | 21 / FB1 |
| 0.39 | 5000 | 12.3 | 9.4 | 16 | 0.3 | 0.9 | 140 | 45 × 105 | B2 | 0.18 | E62.F10-391B20 | 21 / FB1 |
| 0.47 | 5000 | 10.8 | 9.4 | 16 | 0.37 | 1.1 | 140 | 45 × 105 | B2 | 0.18 | E62.F10-471B20 | 21 / FB1 |
| 0.5 | 5000 | 10.4 | 9.4 | 16 | 0.5 | 1.5 | 140 | 45 × 105 | B2 | 0.18 | E62.F10-501B20 | 21 / FB1 |
| 0.68 | 5000 | 8.5 | 7.7 | 16 | 0.5 | 1.5 | 120 | 55 × 105 | B2 | 0.26 | E62.H10-681B20 | 18 / FB0 |
| 1.5 | 4000 | 5.2 | 4.2 | 16 | 1.4 | 4.2 | 140 | 75 × 140 | CD | 0.6 | E62.M14-152C00 | 5 / FB8 |
| 2 | 4000 | 5.1 | 3.7 | 16 | 1.4 | 4.2 | 140 | 85 × 140 | CD | 0.8 | E62.N14-202C00 | 5 / FB8 |
| U_N 5000V AC | | U_{rms} 3500V | | | U_S 7500V | | U_{BB} 8750V | | | | | |
| 0.1 | 5000 | 14.9 | 9.4 | 16 | 0.4 | 1.1 | 140 | 45 × 105 | B2 | 0.18 | E62.F10-101B20 | 21 / FB1 |
| 0.15 | 5000 | 12.9 | 9.4 | 16 | 0.44 | 1.4 | 140 | 45 × 105 | B2 | 0.18 | E62.F10-151B20 | 21 / FB1 |
| 0.22 | 5000 | 14.5 | 9.4 | 16 | 0.44 | 1.4 | 140 | 45 × 105 | B2 | 0.18 | E62.F10-221B20 | 21 / FB1 |
| 0.33 | 5000 | 8.7 | 6.2 | 16 | 0.73 | 2.19 | 140 | 60 × 120 | CD | 0.3 | E62.K12-331C00 | 18 / FB7 |
| 0.47 | 5000 | 7.1 | 6.2 | 16 | 0.92 | 2.76 | 140 | 60 × 120 | CD | 0.3 | E62.K12-471C00 | 18 / FB7 |
| 0.68 | 5000 | 8.9 | 5.3 | 16 | 0.94 | 2.82 | 140 | 60 × 140 | CD | 0.4 | E62.K14-681C00 | 12 / FB8 |
| 1 | 5000 | 6.5 | 4.2 | 16 | 1.39 | 4.17 | 140 | 75 × 140 | CD | 0.6 | E62.M14-102C00 | 5 / FB8 |
| 1.5 | 5000 | 4.8 | 3.7 | 16 | 2.08 | 6.24 | 140 | 85 × 140 | CD | 0.8 | E62.N14-152C00 | 5 / FB8 |
| 2 | 5000 | 3.9 | 3.4 | 16 | 2.77 | 8.31 | 140 | 95 × 140 | CD | 1 | E62.P14-202C00 | 3 / FB8 |



for latest edition and updates
check www.powercapacitors.info

E64HT - HIGH TEMPERATURE AC 420V AC

AC-Capacitors for high operating temperatures
Wechselspannungskondensatoren für hohe Einsatztemperaturen



according to standards IEC 61071, UL810 (protected 10000 AFC).
gemäß der Standards (UL-approved version available on request).
optional IEC 61881

can Gehäuse aluminium Aluminium
mounting position Einbaulage 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%)
tanδ₀ 2 × 10⁻⁴

operating temperatures Grenztemperaturen

Θ_{min} -40
Θ_{HOTSPOT} 420V AC: ≤100°C
640V AC: ≤95°C

storing temperature Lagertemperatur -40 ... +100°C

statistical lifetime statistische Lebensdauer > 100 000 h

Failure rate Ausfallrate see FIT diagrams pg.33
siehe FIT-Diagramme S.33

| C _N (μF) | U _N DC (V) | R _s (mΩ) | R _{th} (K/W) | I _{max} (A) | Î (kA) | I _s (kA) | L _e (nH) | D ₁ × L ₁ (mm) | Design Maßbild | m (kg) | order no. Bestell-Nr. | pcs / box Stk / Box |
|------------------------|--------------------------|------------------------|--------------------------|-------------------------------------|------------|--------------------------|------------------------|---|-------------------|-----------|--------------------------|------------------------|
| U _N 420V AC | | U _{rms} 300V | | U _{BB} 645V _{rms} | | U _{BG} 3000V AC | | | | | | |
| 2 | 420 | 12.9 | 37.7 | 6 | 0.1 | 0.3 | 60 | 25 × 48 | E1 | 0.03 | E64.B48-400215 | 98/FB6 |
| 3 | 420 | 9.2 | 37.7 | 7 | 0.1 | 0.3 | 60 | 25 × 48 | E1 | 0.03 | E64.B48-400315 | 98/FB6 |
| 4 | 420 | 8.4 | 37.7 | 8 | 0.11 | 0.33 | 60 | 25 × 48 | E1 | 0.03 | E64.B48-300415 | 98/FB6 |
| 5 | 420 | 10.6 | 30.7 | 7 | 0.11 | 0.33 | 60 | 25 × 58 | E1 | 0.04 | E64.B58-400515 | 98/FB4 |
| 6 | 420 | 10.5 | 30.7 | 7 | 0.11 | 0.33 | 60 | 25 × 58 | E1 | 0.04 | E64.B58-300615 | 98/FB4 |
| 7 | 420 | 8.2 | 30.7 | 8 | 0.16 | 0.48 | 60 | 25 × 58 | E1 | 0.04 | E64.B58-400715 | 98/FB4 |
| 8 | 420 | 8.4 | 25.6 | 9 | 0.15 | 0.45 | 60 | 30 × 58 | E1 | 0.05 | E64.C58-300815 | 72/FB4 |
| 9 | 420 | 7.7 | 25.6 | 9 | 0.17 | 0.51 | 60 | 30 × 58 | E1 | 0.05 | E64.C58-300915 | 72/FB4 |
| 10 | 420 | 7.2 | 25.6 | 10 | 0.19 | 0.57 | 60 | 30 × 58 | E1 | 0.05 | E64.C58-301015 | 72/FB4 |
| 11 | 420 | 6.7 | 25.6 | 10 | 0.21 | 0.63 | 60 | 30 × 58 | E1 | 0.05 | E64.C58-301115 | 72/FB4 |
| 12 | 420 | 6.3 | 25.6 | 11 | 0.23 | 0.69 | 60 | 30 × 58 | E1 | 0.05 | E64.C58-301215 | 72/FB4 |
| 13.5 | 420 | 7.5 | 18.3 | 11 | 0.23 | 0.69 | 80 | 35 × 68 | D1 | 0.07 | E64.D68-481325 | 50/FB4 |
| 16 | 420 | 8.9 | 15.7 | 11 | 0.22 | 0.66 | 80 | 35 × 78 | D1 | 0.09 | E64.D78-401625 | 50/FB3 |
| 18 | 420 | 8.2 | 15.7 | 11 | 0.25 | 0.75 | 80 | 35 × 78 | D1 | 0.09 | E64.D78-401825 | 50/FB3 |
| 20 | 420 | 7.6 | 15.7 | 12 | 0.28 | 0.84 | 80 | 35 × 78 | D1 | 0.09 | E64.D78-402025 | 50/FB3 |
| 22.5 | 420 | 7.1 | 13.8 | 13 | 0.31 | 0.93 | 80 | 40 × 78 | D1 | 0.11 | E64.E78-482225 | 36/FB3 |
| 25 | 420 | 6.6 | 13.8 | 13 | 0.35 | 1.05 | 80 | 40 × 78 | D1 | 0.11 | E64.E78-402525 | 36/FB3 |
| 30 | 420 | 8.3 | 12 | 13 | 0.33 | 0.99 | 90 | 40 × 93 | D1 | 0.11 | E64.E93-403025 | 36/FB3 |
| 32 | 420 | 5.7 | 12.2 | 15 | 0.45 | 1.35 | 80 | 45 × 78 | D1 | 0.14 | E64.F78-403225 | 32/FB3 |
| 35 | 420 | 7.5 | 12 | 14 | 0.38 | 1.14 | 90 | 40 × 93 | D1 | 0.11 | E64.E93-403525 | 36/FB3 |



E64HT - HIGH TEMPERATURE

AC 420...640V AC



| C _N (μF) | U _N DC (V) | R _S (mΩ) | R _{th} (K/W) | I _{max} (A) | î (kA) | I _S (kA) | L _s (nH) | D ₁ × L ₁ (mm) | Design Maßbild | m (kg) | order no. Bestell-Nr. | pcs / box Stk / Box |
|------------------------------|--------------------------|-----------------------------|--------------------------|-------------------------|--|------------------------|------------------------|---|-------------------|-----------|--------------------------|------------------------|
| U_N 420V AC | | U_{rms} 300V | | | U_{BB} 645V_{rms} | | | U_{BG} 3000V AC | | | | |
| 40 | 420 | 10.7 | 9.4 | 13 | 0.32 | 0.96 | 100 | 40 × 119 | D1 | 0.17 | E64.E19-404025 | 36/FB1 |
| 45 | 420 | 6.4 | 9.1 | 16 | 0.49 | 1.47 | 100 | 50 × 98 | D1 | 0.19 | E64.G98-404525 | 21/FB2 |
| 50 | 420 | 9.2 | 8.3 | 15 | 0.40 | 1.2 | 100 | 45 × 119 | D1 | 0.2 | E64.F19-405025 | 32/FB1 |
| 60 | 420 | 5.5 | 8.3 | 16 | 0.65 | 1.95 | 100 | 55 × 98 | D1 | 0.2 | E64.H98-406025 | 18/FB2 |
| 65 | 420 | 7.8 | 7.2 | 16 | 0.52 | 1.56 | 100 | 50 × 124 | D1 | 0.3 | E64.G24-406525 | 21/FB1 |
| 70 | 420 | 7.5 | 7.2 | 16 | 0.56 | 1.68 | 100 | 50 × 124 | D1 | 0.3 | E64.G24-407025 | 21/FB1 |
| 75 | 420 | 9.4 | 5.9 | 16 | 0.5 | 1.5 | 120 | 50 × 148 | D1 | 0.35 | E64.G48-407525 | 21/FB0 |
| 80 | 420 | 6.9 | 6.5 | 16 | 0.64 | 1.92 | 120 | 55 × 124 | D1 | 0.3 | E64.H24-408025 | 18/FB1 |
| 85 | 420 | 8.7 | 5.5 | 16 | 0.56 | 1.68 | 120 | 55 × 148 | D1 | 0.4 | E64.H48-408525 | 18/FB0 |
| 90 | 420 | 8.4 | 5.5 | 16 | 0.59 | 1.77 | 120 | 55 × 148 | D1 | 0.4 | E64.H48-409025 | 18/FB0 |
| 100 | 420 | 6.1 | 6 | 16 | 0.8 | 2.4 | 120 | 60 × 124 | D1 | 0.45 | E64.K24-410025 | 18/FB1 |
| 110 | 420 | 7.5 | 4.9 | 16 | 0.72 | 2.16 | 120 | 60 × 148 | D1 | 0.5 | E64.K48-411025 | 18/FB0 |
| 120 | 420 | 7.1 | 4.9 | 16 | 0.79 | 2.37 | 120 | 60 × 148 | D1 | 0.5 | E64.K48-412025 | 18/FB0 |
| 125 | 420 | 7 | 4.9 | 16 | 0.82 | 2.46 | 120 | 60 × 148 | D1 | 0.5 | E64.K48-412525 | 18/FB0 |
| 130 | 420 | 6.8 | 4.9 | 16 | 0.85 | 2.55 | 120 | 60 × 148 | D1 | 0.5 | E64.K48-413025 | 18/FB0 |
| U_N 640V AC | | U_{rms} 450V | | | U_S 970V | | | U_{BG} 3000V AC | | | | |
| 1 | 640 | 18.2 | 37.1 | 5 | 0.1 | 0.3 | 60 | 25 × 48 | E1 | 0.03 | E64.B48-600115 | 98 / FB6 |
| 2 | 640 | 11.3 | 37.1 | 6 | 0.1 | 0.3 | 60 | 25 × 48 | E1 | 0.03 | E64.B48-500215 | 98 / FB6 |
| 3 | 640 | 8.2 | 30.7 | 8 | 0.11 | 0.33 | 60 | 30 × 48 | E1 | 0.05 | E64.C48-500315 | 72 / FB6 |
| 4 | 640 | 11.2 | 25.6 | 8 | 0.105 | 0.315 | 60 | 30 × 58 | E1 | 0.05 | E64.C58-500415 | 72 / FB4 |
| 5 | 640 | 9.4 | 25.6 | 8 | 0.13 | 0.39 | 60 | 30 × 58 | E1 | 0.05 | E64.C58-500515 | 72 / FB4 |
| 6 | 640 | 12.2 | 21.8 | 8 | 0.12 | 0.36 | 80 | 30 × 68 | E1 | 0.06 | E64.C68-500615 | 72 / FB4 |
| 7 | 640 | 10.8 | 21.8 | 8 | 0.14 | 0.42 | 80 | 30 × 68 | E1 | 0.06 | E64.C68-500715 | 72 / FB4 |
| 8 | 640 | 13.5 | 18.3 | 8 | 0.13 | 0.39 | 80 | 30 × 78 | E1 | 0.07 | E64.C78-500815 | 72 / FB3 |
| 10 | 640 | 8.2 | 18.7 | 11 | 0.2 | 0.6 | 80 | 35 × 68 | D1 | 0.07 | E64.D68-501025 | 50 / FB4 |
| 12 | 640 | 9.8 | 15.7 | 11 | 0.2 | 0.6 | 80 | 35 × 78 | D1 | 0.09 | E64.D78-501225 | 50 / FB3 |
| 14 | 640 | 8.8 | 13.8 | 12 | 0.23 | 0.69 | 80 | 40 × 78 | D1 | 0.11 | E64.E78-501425 | 36 / FB3 |
| 16 | 640 | 8 | 13.8 | 13 | 0.26 | 0.78 | 80 | 40 × 78 | D1 | 0.11 | E64.E78-501625 | 36 / FB3 |
| 18 | 640 | 7.4 | 13.8 | 13 | 0.3 | 0.9 | 80 | 40 × 78 | D1 | 0.11 | E64.E78-501825 | 36 / FB3 |
| 20 | 640 | 9.8 | 12 | 12 | 0.26 | 0.78 | 90 | 40 × 93 | D1 | 0.11 | E64.F93-502025 | 36 / FB3 |
| 25 | 640 | 8.4 | 10.6 | 14 | 0.32 | 0.96 | 90 | 45 × 93 | D1 | 0.15 | E64.F93-502525 | 36 / FB3 |
| 30 | 640 | 7.4 | 10.6 | 15 | 0.38 | 1.14 | 90 | 45 × 93 | D1 | 0.15 | E64.F93-503025 | 32 / FB3 |
| 35 | 640 | 10.6 | 8.3 | 14 | 0.33 | 0.99 | 100 | 45 × 119 | D1 | 0.20 | E64.F19-503525 | 32 / FB1 |
| 40 | 640 | 9.6 | 8.3 | 14 | 0.35 | 1.05 | 100 | 45 × 119 | D1 | 0.20 | E64.F19-504025 | 32 / FB1 |
| 45 | 640 | 8.9 | 7.2 | 16 | 0.42 | 1.26 | 100 | 50 × 124 | D1 | 0.30 | E64.G24-504525 | 21 / FB1 |
| 50 | 640 | 8.3 | 7.2 | 16 | 0.47 | 1.41 | 100 | 50 × 124 | D1 | 0.30 | E64.G24-505025 | 21 / FB1 |
| 60 | 640 | 6.9 | 6 | 16 | 0.64 | 1.92 | 100 | 60 × 124 | D1 | 0.45 | E64.K24-606025 | 18 / FB1 |
| 65 | 640 | 8.5 | 4.9 | 16 | 0.57 | 1.71 | 100 | 60 × 148 | D1 | 0.50 | E64.K48-606525 | 18 / FB0 |
| 80 | 640 | 7.6 | 4.7 | 16 | 0.71 | 2.13 | 100 | 65 × 148 | D2 | 0.55 | E64.L48-608025 | 10 / FB0 |
| 100 | 640 | 7.2 | 4.7 | 16 | 0.77 | 2.31 | 100 | 65 × 148 | D2 | 0.55 | E64.L48-510025 | 10 / FB0 |

Other values, dimensions and terminal combinations available on request.
Andere Werte, Abmessungen und Anschlußkombinationen auf Anfrage erhältlich.



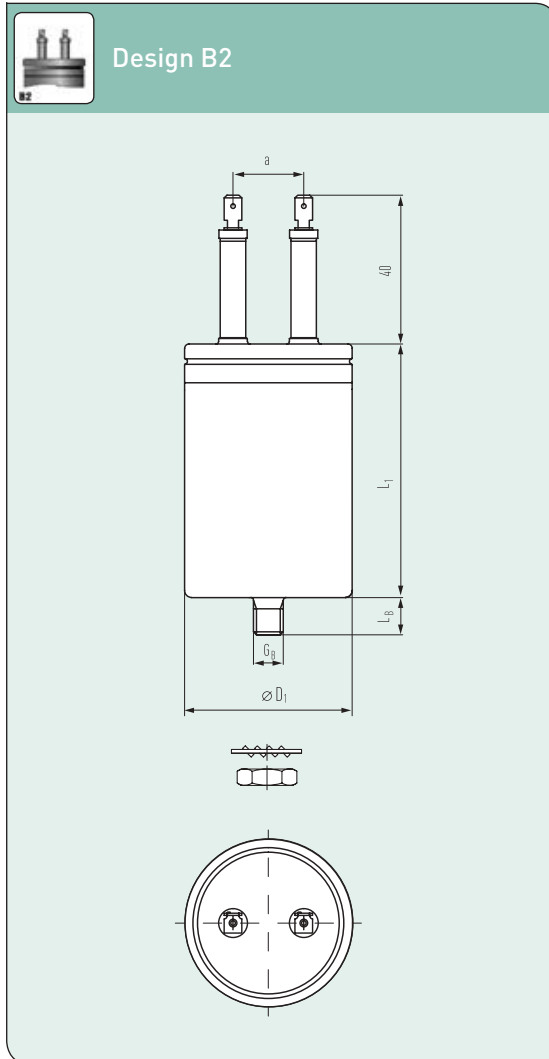


DIMENSIONAL DRAWINGS MASSZEICHNUNGEN





B2



Design 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

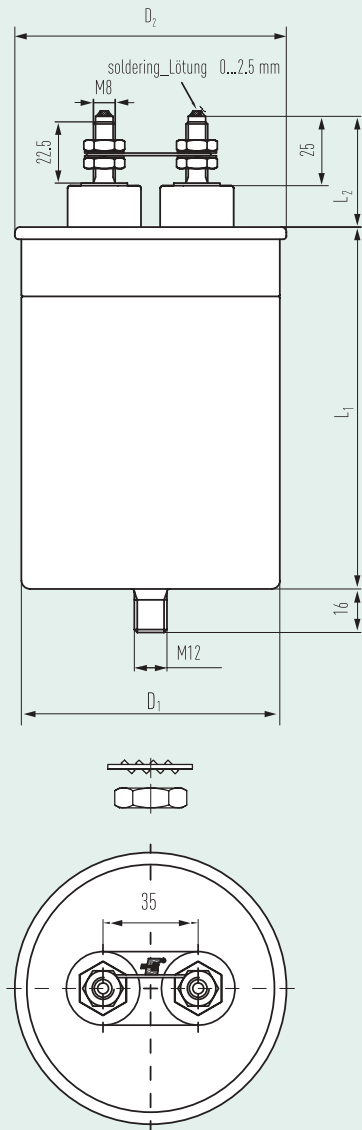
| D_1 | L_B | G_B | a | K | L |
|-------|-------|-------|----|----|----|
| 45 | 10 | M8 | 19 | 20 | 9 |
| 50 | 16 | M12 | 26 | 20 | 16 |
| 55 | 16 | M12 | 26 | 20 | 16 |



C6/C68



Design C6/C68



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

- Can material aluminium
- Base mounting stud M12
- Lid flanged aluminium (folded edge)
- Terminal C6 threaded stud M10 on soldered plastic bushing
 - Torque 7...9 Nm
 - I_{max} (Terminals) 100 A
- Terminal C68 threaded stud M8 on soldered plastic bushing
 - Torque 3...4 Nm
 - I_{max} (Terminals) 50 A
- Degree of protection IP 00
- Humidity class C

KONDENSATOREN MIT EINEM GEHÄUSEDURCHMESSER VON 60...136 mm

- Gehäusematerial Aluminium
- Bodenschraube M12
- Deckel Aluminium, Bördelverschluss
- Anschlüsse C6 Gewindebolzen M10 auf eingelöteter Kunststoffdurchführung
 - Drehmoment 7...9 Nm
 - I_{max} (Anschlüsse) 100 A
- Anschlüsse C68 Gewindebolzen M8 auf eingelöteter Kunststoffdurchführung
 - Drehmoment 3...4 Nm
 - I_{max} (Anschlüsse) 50 A
- Schutzgrad IP 00
- Feuchteklasse C

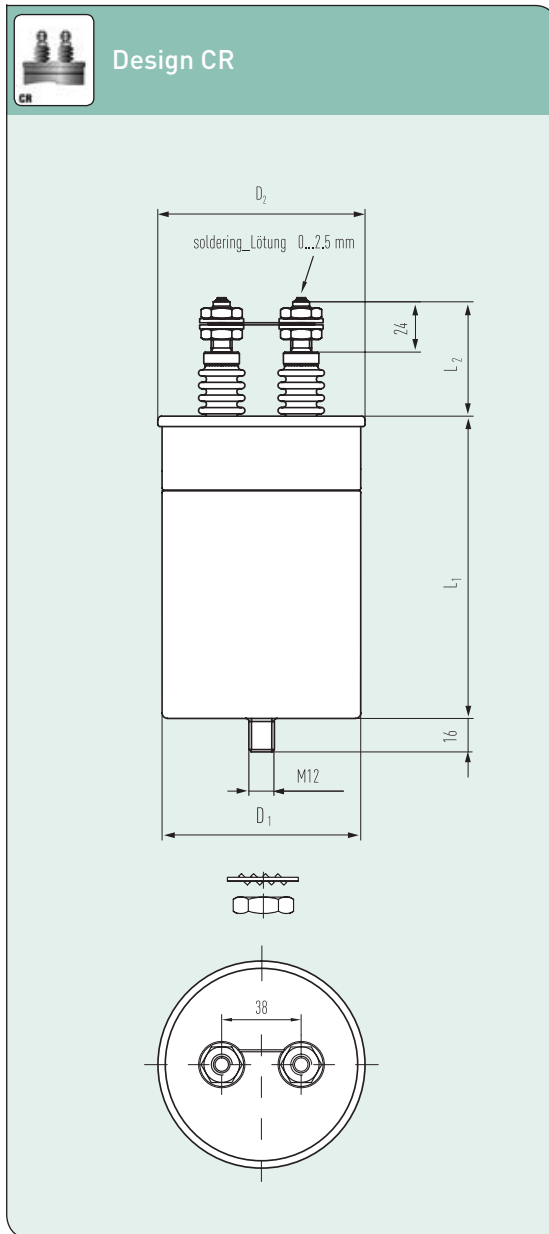
| D ₁ | D ₂ * | L ₂ | L | K |
|----------------|------------------|----------------|----|----|
| 60 | 64.8 | 41 | 19 | 23 |
| 65 | 69.7 | 41 | 19 | 23 |
| 75 | 79.3 | 41 | 15 | 25 |
| 85 | 89.3 | 41 | 15 | 25 |
| 95 | 99.7 | 41 | 15 | 25 |
| 100 | 104.5 | 41 | 15 | 25 |
| 116 | 120.5 | 37 | 15 | 25 |
| 136 | 142 | 36 | 15 | 25 |

*For exact tolerances please see data sheet _Für genaue Toleranzen siehe Datenblatt.





CR



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 7...9 Nm
- I_{max} (Terminals) 100 A
- Degree of protection IP 00
- K 54 mm
- L 17 mm
- Humidity class C

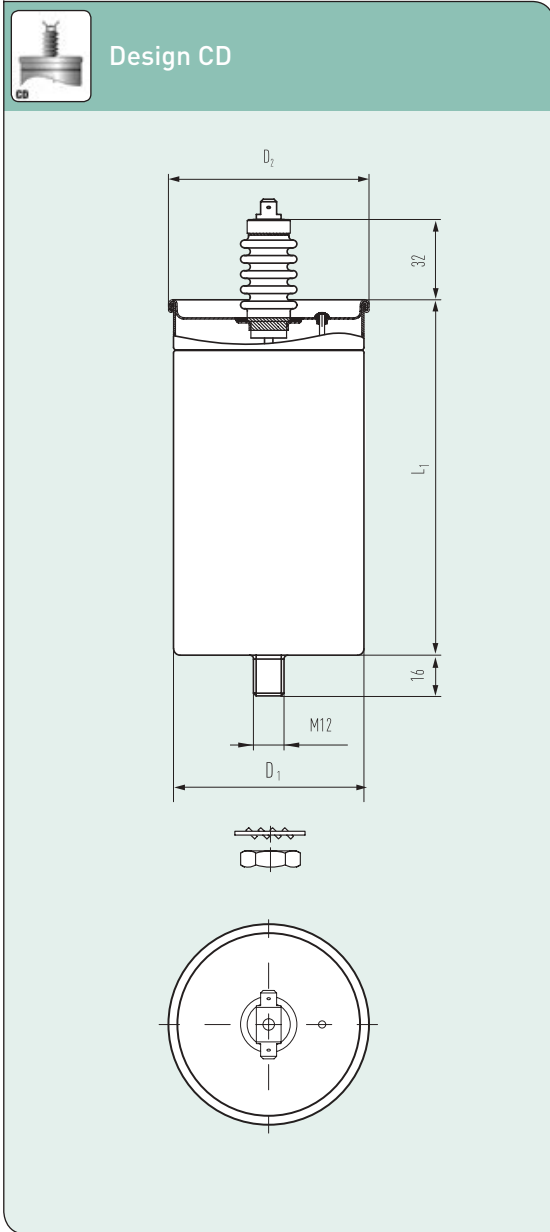
KONDENSATOREN MIT EINEM GEHÄUSEDURCHMESSER VON 75...136 mm

- Gehäusematerial Aluminium
- Bodenschraube M12
- Deckel Kupfer, Bördelverschluss
- Anschlüsse Gewindebolzen M10 auf eingelöteter Keramikdurchführung
- Drehmoment 7...9 Nm
- I_{max} (Anschlüsse) 100 A
- Schutzgrad IP 00
- K 54 mm
- L 17 mm
- Feuchtklasse C

| D_1 | D_2^* | L_2 |
|-------|---------|-------|
| 75 | 79.4 | 56 |
| 85 | 89.5 | 56 |
| 95 | 99.5 | 56 |
| 100 | 104.9 | 56 |
| 116 | 120.0 | 54 |
| 136 | 140.7 | 51 |

*For exact tolerances please see data sheet_Für genaue Toleranzen siehe Datenblatt.





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 Doppelflachstecker 6.3 × 0.8
- I_{max} (Anschlüsse) 16 A
- Schutzgrad IP 00
- K 54 mm
- L 35 mm
- Feuchteklasse C

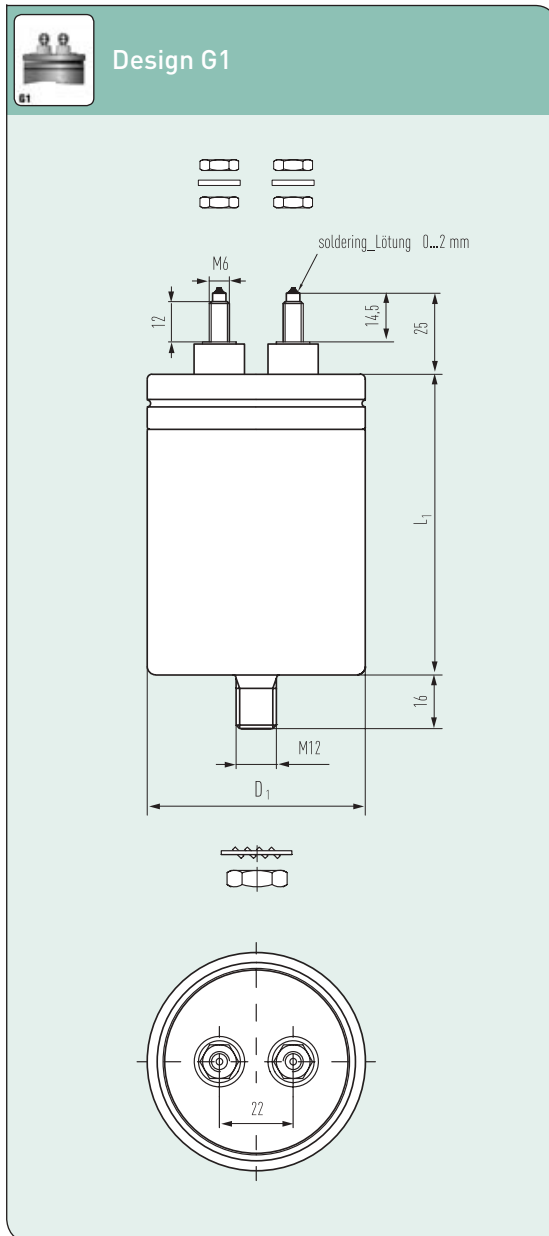
| D ₁ | D ₂ * |
|----------------|------------------|
| 60 | 64.5 |
| 75 | 79.4 |
| 85 | 89.5 |
| 95 | 99.5 |

*For exact tolerances please see data sheet _Für genaue Toleranzen siehe Datenblatt.





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 1.5...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

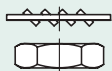
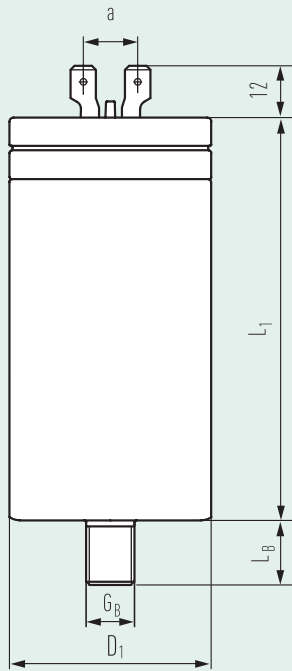
- Gehäusematerial Aluminium
- Bodenschraube M12
- Deckel Kunststoff, Bördelverschluss mit Gummidichtung
- Anschlüsse Gewindebolzen M6 auf integrierter Kunststoffdurchführung
- Drehmoment 1.5...2 Nm
- I_{max} (Anschlüsse) 40 A
- Schutzgrad IP 00
- L 10
- Feuchteklasse F

| D ₁ | K |
|----------------|----|
| 50 | 15 |
| 55 | 16 |
| 65 | 21 |

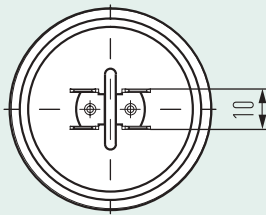




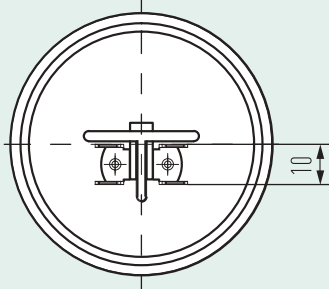
Design D1/D2



D1



D2



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

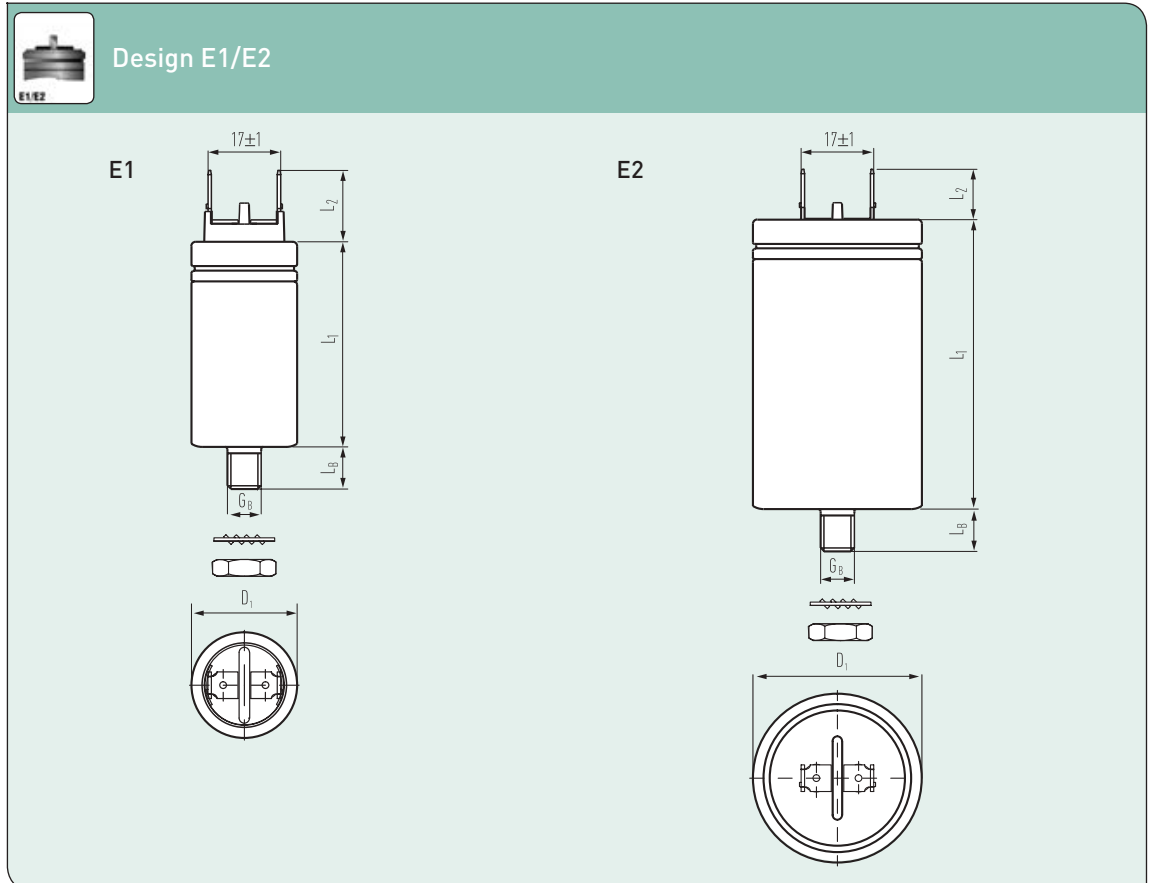
D1 KONDENSATOREN MIT GEHÄUSEDURCHMESSER 35...60 mm

D2 KONDENSATOREN MIT GEHÄUSEDURCHMESSER 65...75 mm

- Gehäusematerial Aluminium
- Bodenschraube siehe Tabelle
- Deckel Kunststoff, Bördelverschluss mit
Gummidichtung
- Anschlüsse Doppelflachstecker 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

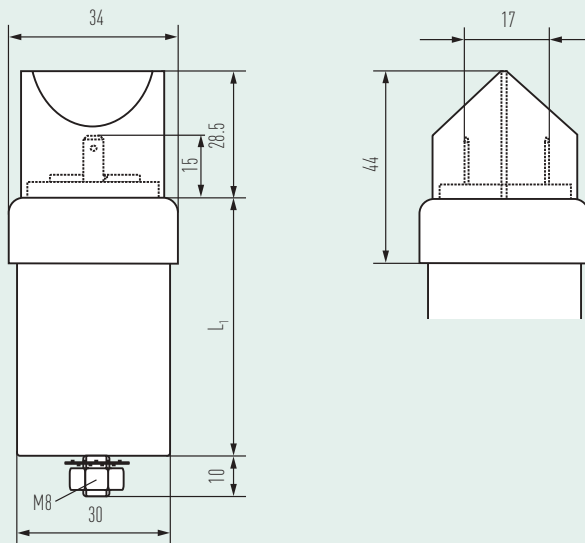
| D ₁ | L ₂ | G ₈ | L ₃ | K | L |
|----------------|----------------|----------------|----------------|-----|-----|
| 25 | 16 | M8 | 10 | 7.5 | 7.5 |
| 30 | 15 | M8 | 10 | 9 | 7.5 |
| 35...45 | 11 | M8 | 10 | 9 | 7.5 |
| 50...65 | 11 | M12 | 16 | 9 | 7.5 |



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 | 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 |

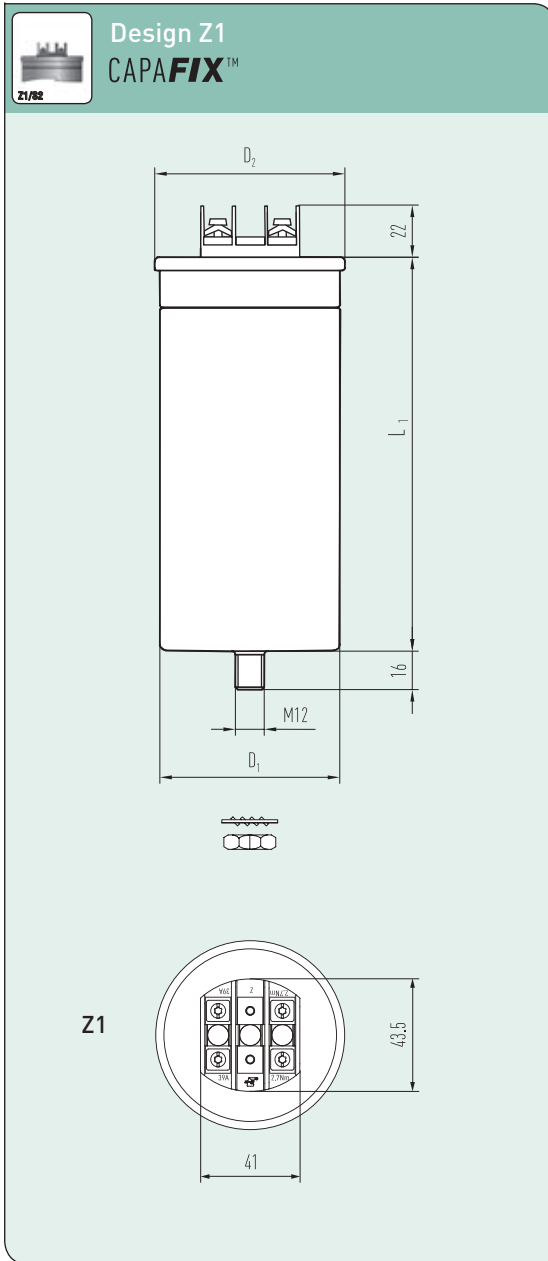
KONDENSATOREN MIT EINEM GEHÄUSEDURCHMESSER VON 30 mm

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 |



Z1



CAPACITORS WITH A CAN DIAMETER OF 60...65 mm

| | |
|------------------------------|---------------------------------|
| Can material | aluminium |
| Base mounting stud | M12 |
| Lid | flanged aluminium (folded edge) |
| Humidity class | C |
| Degree of Protection | IP 00 |
| Contacts | 2 x 10 mm ² |
| Torque | 2...2.7 Nm |
| I _{max} (Terminals) | 39 A |
| K | 16 mm |
| L | 16 mm |

KONDENSATOREN MIT EINEM GEHÄUSEDURCHMESSER VON 60...65 mm

| | |
|-------------------------------|-----------------------------|
| Gehäusematerial | Aluminium |
| Bodenschraube | M12 |
| Deckel | Aluminium, Bördelverschluss |
| Feuchtklasse | C |
| Schutzgrad | IP 00 |
| Kontakte | 2 x 10 mm ² |
| Drehmoment | 2...2.7 Nm |
| I _{max} (Anschlüsse) | 39 A |
| K | 16 mm |
| L | 16 mm |

| D ₁ | D ₂ * |
|----------------|------------------|
| 60 | 64.8 |
| 65 | 69.7 |

*For exact tolerances please see data sheet_Für genaue Toleranzen siehe Datenblatt.

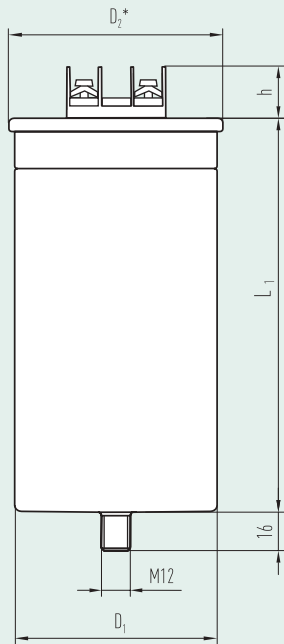




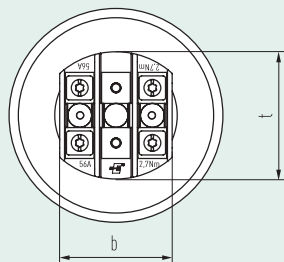
S2



Design S2
CAPAFIX™



S2



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

- Can material aluminium
- Base mounting stud M12
- Lid flanged aluminium (folded edge)
- Humidity class C
- Degree of Protection IP 00
- Contacts 2 x 16 mm²
- Torque 2.7 Nm
- I_{max} (Terminals) 56 A
- K 15 mm
- L 14 mm

KONDENSATOREN MIT EINEM GEHÄUSEDURCHMESSER VON 75...136 mm

- Gehäusematerial Aluminium
- Bodenschraube M12
- Deckel Aluminium, Bördelverschluss
- Feuchteklasse C
- Schutzgrad IP 00
- Kontakte 2 x 16 mm²
- Drehmoment 2.7 Nm
- I_{max} (Anschlüsse) 56 A
- K 15 mm
- L 14 mm

| | Ø ≤ 100 mm | Ø ≥ 116 mm |
|---|------------|------------|
| h | 23 | 18 |
| b | 47 | 47 |
| t | 53 | 53 |

| D ₁ | D ₂ * |
|----------------|------------------|
| 75 | 79.3 |
| 85 | 89.3 |
| 95 | 99.7 |
| 100 | 104.5 |
| 116 | 120.5 |
| 136 | 142 |

*For exact tolerances please see data sheet _Für genaue Toleranzen siehe Datenblatt.



ACCESSORIES ZUBEHÖR



Protection Covers for CAPA**FIX**™ S and Z

Separate snap-on covers are available for terminals of the CAPA**FIX**™ series for protection of the operator from accidental contact. This kind of protection is comparable with IP10 (solid objects up to 50mm, e.g. accidental touch by hands); however as the cover is removable without the aid of tools, IP rating does not apply.



Schutzabdeckungen für CAPA**FIX**™ S und Z

Aufschnappbare Schutzabdeckungen sind separat für Kondensatoren mit CAPA**FIX**™ Anschlüssen erhältlich.

Sie dienen dem Schutz vor zufälliger Berührung, vergleichbar mit IP10 (feste Objekte bis 50mm, Handrückenschutz); da die Abdeckung ohne Zuhilfenahme von Werkzeugen entfernbar ist, findet die IP-Klassifizierung jedoch keine Anwendung.

Order No. Bestell-Nr.

CAPA**FIX**™ S: 275.109-S40000

CAPA**FIX**™ Z: 275.109-Z00000

ANNEX ANHANG



VDE Prüf- und Zertifizierungsinstitut

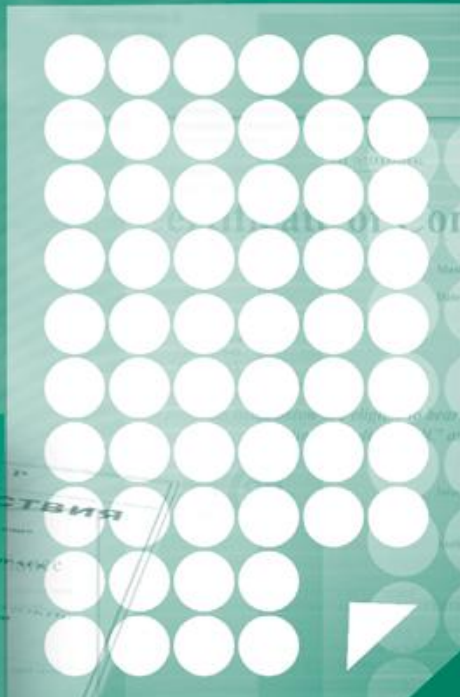
ZERTIFIKAT
CERTIFICATE

certification of compliance

Marking Code: 3844018103044
Mark Issue: January 2, 2005

Marking Code: 3844018103044
Mark Issue: January 2, 2005

СИСТЕМА СЕРТИФИКАЦИИ
СЕРТИФИКАТ СООТВЕТСТВИЯ



Important Remarks

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.

Wichtige Hinweise

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
- N₀ = total number of components at time t = 0
Gesamtzahl der Bauelemente zum Zeitpunkt t = 0
- λ = failure rate Ausfallrate

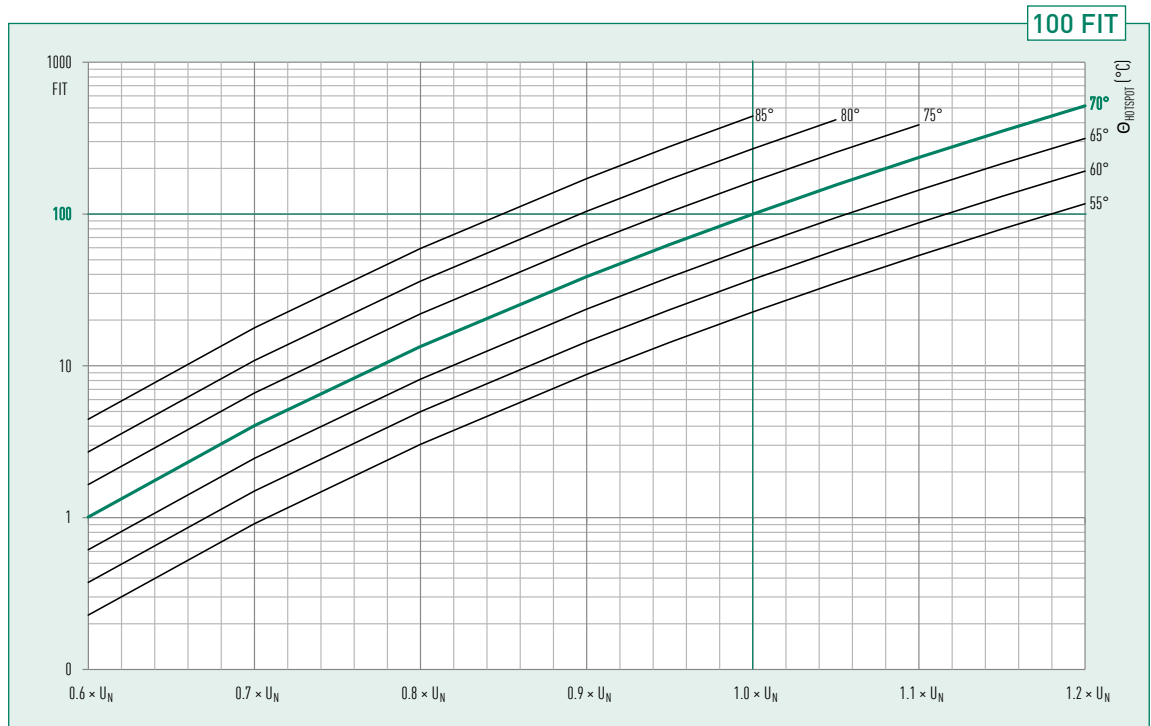
Dabei ist λ die Ausfallrate, die alternativ auch als FIT-Rate angegeben wird (FIT = $\lambda \times 10^9$)

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.

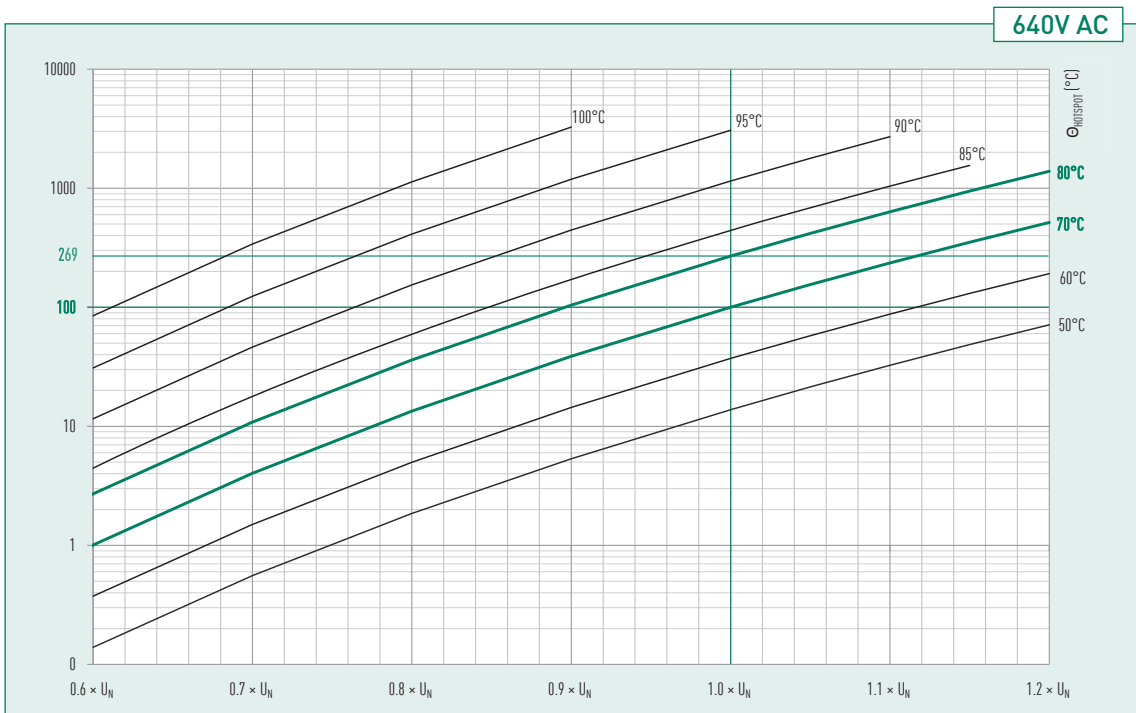
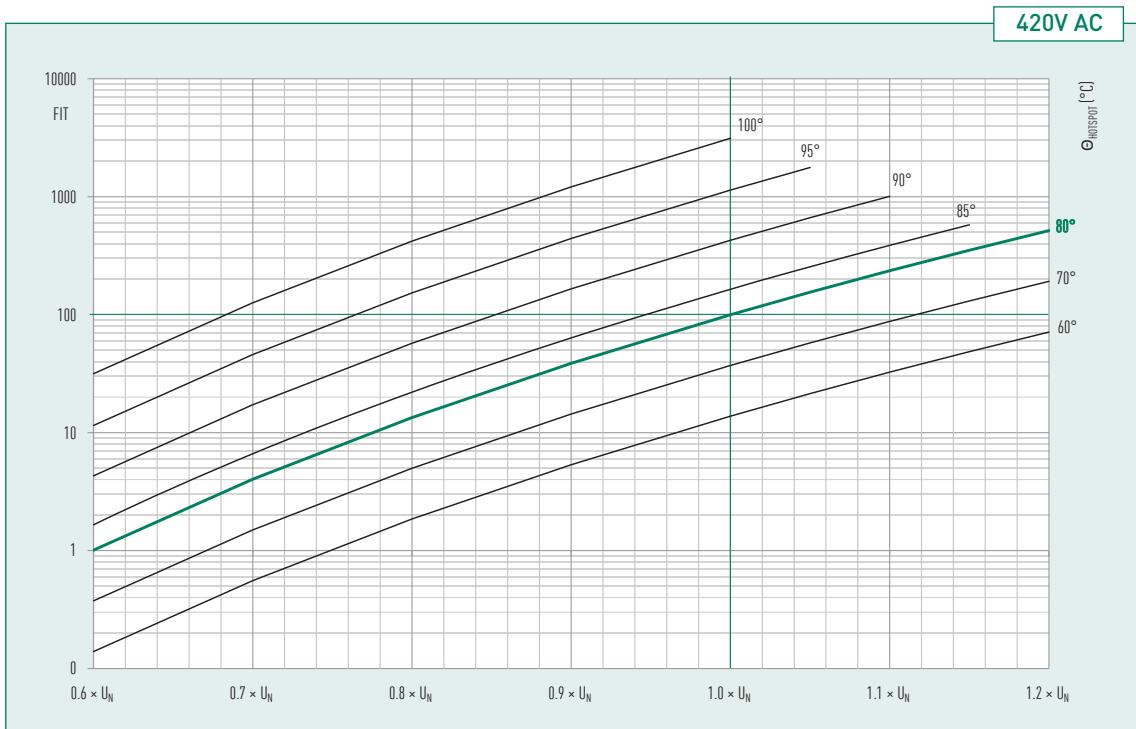
Der Betrieb von Kondensatoren mit der höchsten zulässigen Spannung und der höchsten zulässigen Betriebstemperatur sollte vermieden werden, andernfalls können die Ausfallraten so hoch werden, dass keine technisch sinnvollen Zuverlässigkeiten mehr gewährleistet sind.

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.



FIT-Diagrams for E64 HT
FIT-Diagramm für E64 HT



Important Remarks

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 or both 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.

Wichtige Hinweise

Funktion der Abreißsicherung (BAM™)

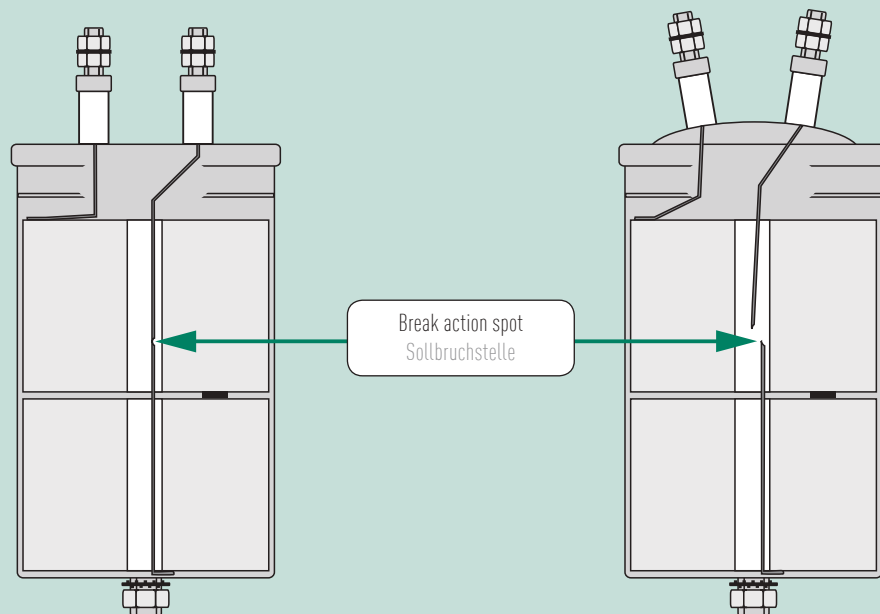
Bei spannungsmäßiger oder thermischer Überlastung bzw. am Ende der Lebensdauer kann durch zahlreiche Selbstheilungsdurchschläge ein Überdruck im Kondensator entstehen.

Um ein Bersten der Gehäuse zu verhindern, sind die Kondensatoren generell mit einer Überdruck-Abreißsicherung (BAM™) versehen.

Diese Sicherung besteht aus einer Sollbruchstelle in einem oder beiden 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 consult our "Application Notes" and the „General Safety Advice for Power Capacitors" issued by the German Electrical and Electronic Manufacturer's Association (ZVEI).

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.

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.

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 „Anwendungsbeispiele" 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.



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.

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

Schutz gegen Überspannungen und Kurzschlüsse: Selbsteilendes Dielektrikum

Alle in unseren Leistungskondensatoren eingesetzten dielektrischen Strukturen sind selbsteilend. 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 Metaldampf 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.

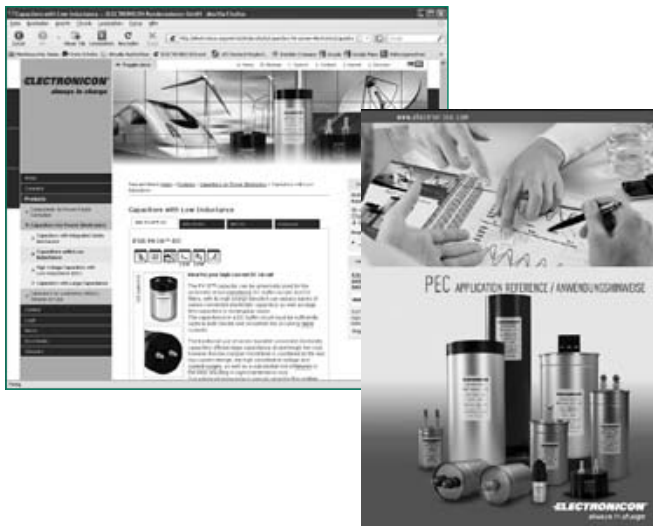
3 Jahre Gewährleistung

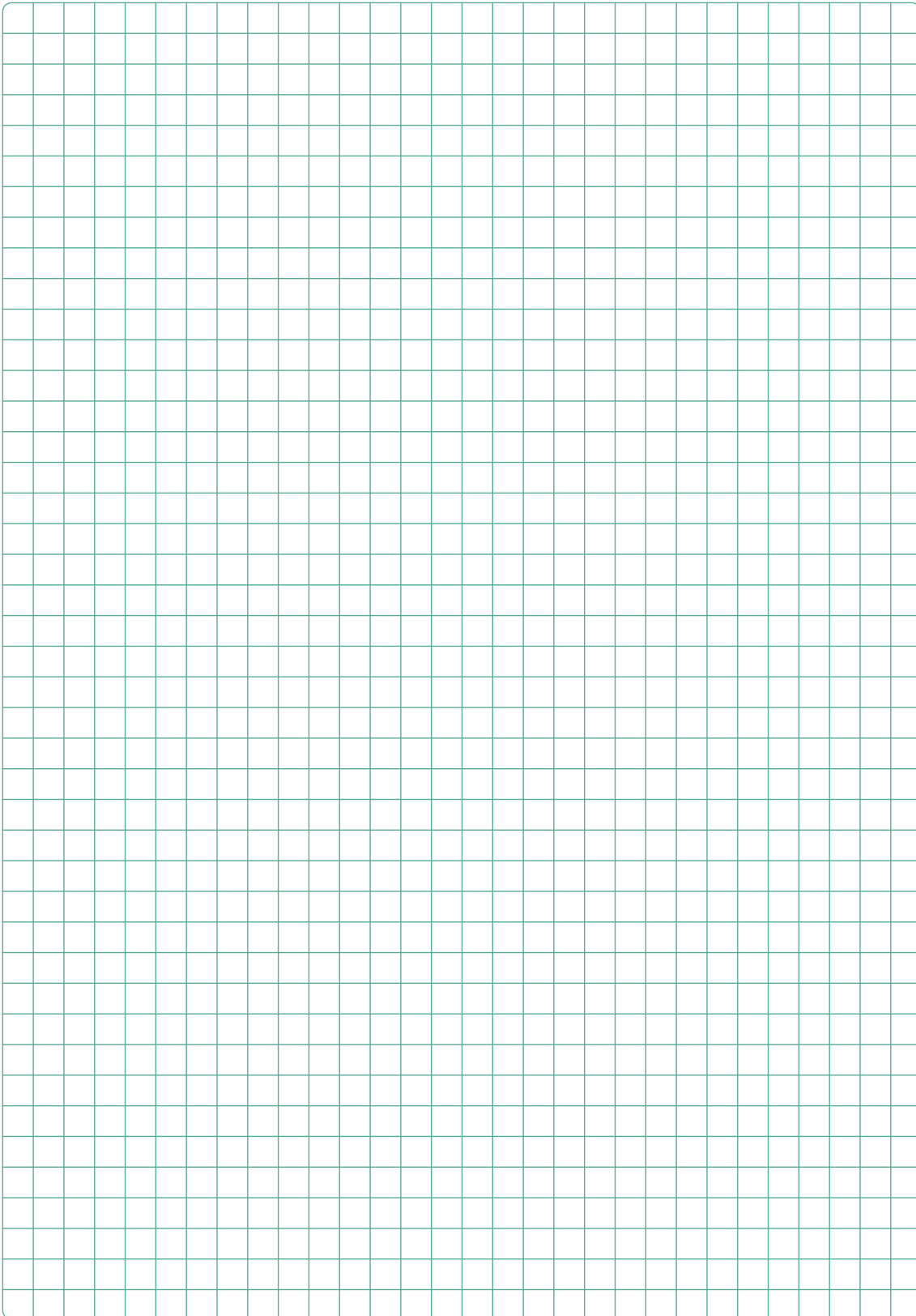
Alle unsere Erzeugnisse werden mit höchster Sorgfalt und Fachkenntnis entwickelt, hergestellt und geprüft. Die Zufriedenheit unserer Kunden ist unser höchstes Ziel. Wir verpflichten uns daher, jeden innerhalb von 3 Jahren ab Verkaufsdatum auftretenden Mangel an unseren Erzeugnissen zu beseitigen, welcher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

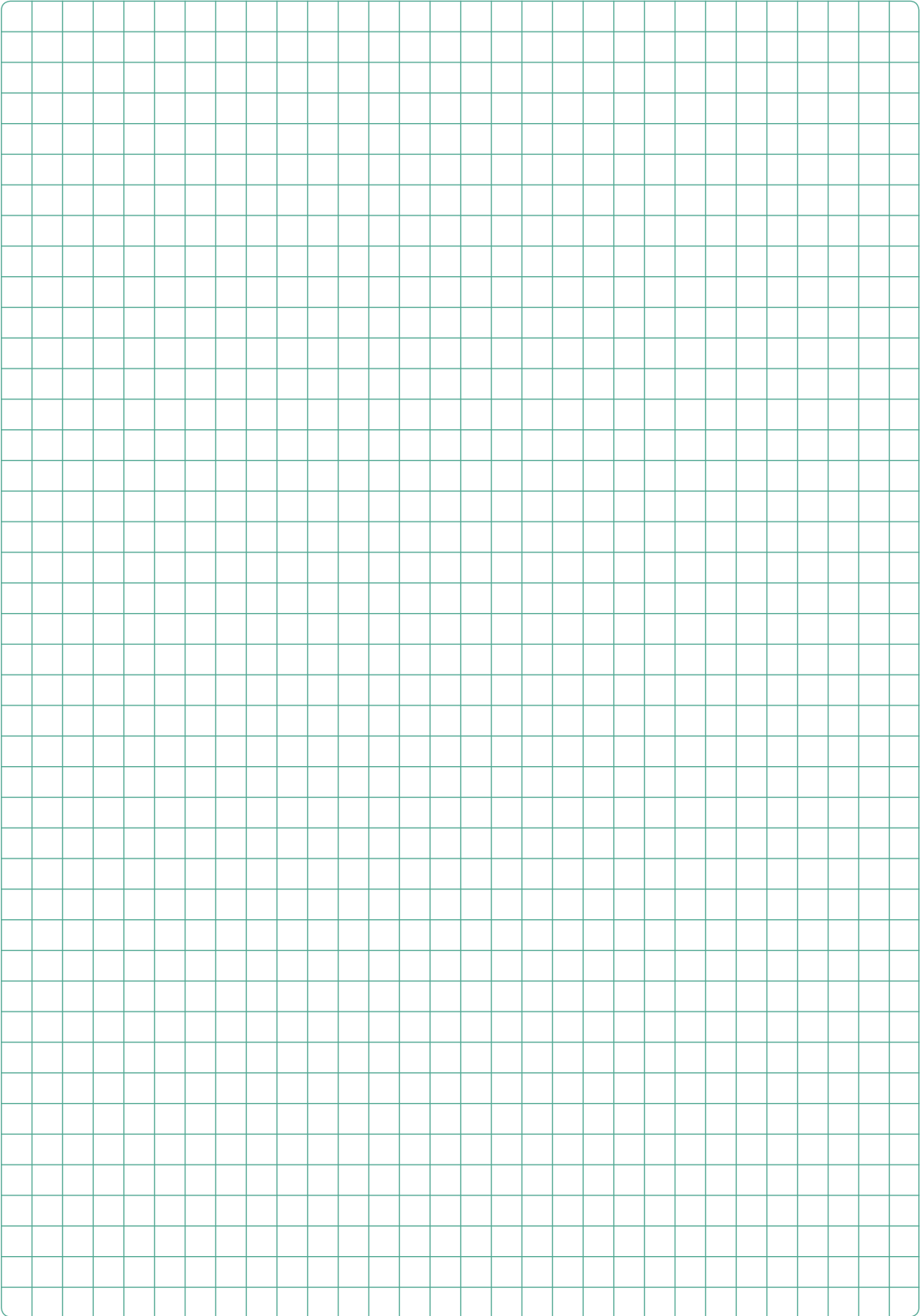
Diese Gewährleistung erstreckt sich nicht auf Defekte, welche auf unsachgemäße Anwendung oder Betrieb jenseits der nach Katalog oder speziellem Datenblatt zulässigen Einsatzbedingungen zurückzuführen sind. Sie erfaßt ebenso wenig Schäden, welche aus fehlerhafter Wartung, unsachgemäßer Montage, Änderungen 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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EXCELLENT EXPERIENCE IN CAPACITOR MAKING FOR OVER 75 YEARS

Gera has been a centre of capacitor making since 1938. ELECTRONICON Kondensatoren GmbH which emerged from previous RFT/VEB ELEKTRONIK Gera in 1992, has become one of Europe's leading capacitor manufacturers supplying customers worldwide and being an open and competent partner for manufacturers and users of power factor correction equipment, for many manufacturers of drives, power electronics, home appliances, and for the lighting industry. Regular investments in advanced and environmentally sound technologies guarantee the highest levels in manufacture and quality to modern standards which are approved and monitored by leading certification authorities.



In today's globalised competition, we distinguish ourselves by

- Absolute reliability and safety of our products
- Close co-operation between manufacturer and client to meet both technical and commercial requirements
- Improvement and development of our technical expertise in capacitor design and manufacture, as well as film coating, with special attention paid to the MKPg-technology
- Early identification and incorporation of new trends and methods in the manufacturing of capacitors
- Flexibility and punctual fulfilment of our commercial obligations

Our experienced development engineers are competent and responsible for both implementing the latest technical trends applicable to our products and ensuring that our products adapt to the challenges of traditional and new markets.

The close and intense co-operation between the departments of Marketing & Sales, Research & Development, and Production has become the keystone of our success. ELECTRONICON is continually striving to establish a similarly close and interactive relationship with its distributors and direct clients both in home and overseas markets, to become not just one out of many suppliers, but your preferred partner for ideas and solutions.

ELECTRONICON®

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