B25834 - MKV POWER KONDANSATÖR

MKV AC Capacitors
Damping, Commutating

B 25 834

High dielectric strength
High peak-current capability
For damping and commutating in the medium frequency range
Also for general AC applications

Construction

- Self-healing
- Plastic dielectric
- Oil-impregnated tubular windings (no PCB)
- Metal-sprayed end faces ensure reliable contacting
- Cylindrical aluminum case
- Plastic or ceramic lead-throughs
- Mounting bolts M8 or M12

Terminals

- Screw terminals M10
- Tab connectors 6,3 mm
- Dual tab connectors 6,3 mm and 9,5 mm

Mounting parts

- If the vibration stress is ≤ 5 *g* and the capacitors are ≤ 60 mm in diameter and ≤ 160 mm in height, the bolt is used for mounting.
- In case of a vibration stress > 5 *g* as well as for larger-sized capacitors mounting details are given in chapter “Mounting parts”.

Grounding

- Mounting bolts for grounding in accordance with VDE 0100
- Grounding identification in accordance with DIN 40 011

Overpressure disconnector (mechanical)

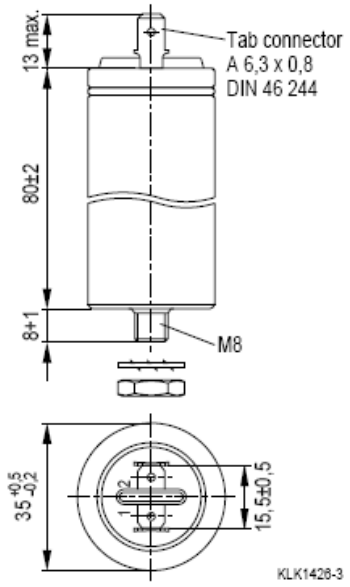
When the overpressure disconnector responds,
the capacitor extends by up to 8 mm.
So leave sufficient space above the terminals when mounting the capacitor.

Individual data sheets

Individual capacitors of this series are specified in detail
(incl. thermal data) on pages 138 … 167.
Upon request, these data sheets are available for each capacitor type.

4,7 µF / 750 Vac

Ordering code: B25834-F5475-K001



Characteristics

C_N, tol.	4,7 µF ± 10 %
U_N	AC 750 V
U_i	AC 670 V
I_{max}	16 A
L_{self}	90 nH
tan δ_0	$2 \cdot 10^{-4}$
R_S	13 mΩ

Maximum ratings

$\hat{u}$	940 V
u_s	1300 V
$\hat{\imath}$	240 A
I_s	590 A
$(du/dt)_{max}$	50 V/µs
$(du/dt)_s$	125 V/µs

Test data

U_{TT}	AC 930 V, 10 s
U_{TC}	AC 2400 V, 10 s
$R_{is} \cdot C$	≥ 3000 s
tan δ (50 Hz)	$\leq 3 \cdot 10^{-4}$

Climatic data

Θ_{min}	– 25 °C
Θ_{max}	+ 85 °C
Humidity	Average relative humidity ≤ 75 %
$\alpha_{FQ(co)}$	$300/10^9$ h
$t_{LD(co)}$	100000 h
Θ_{stg}	– 55 to + 85 °C

IEC climatic category: 25/085/56

(IEC 68-1 and 2)

Θ_{test}	+ 40 °C
Rel. humidity	93 %
t_{test}	56 days
$\Delta C/C$	≤ 1 %
Δ tan δ	$\leq 3 \cdot 10^{-4}$
$R_{is} \cdot C$	≥ 1000 s

Design data

Dimensions $\varnothing \times l$	35 mm × 80 mm
Approx. weight	100 g
Impregnation	Oil
Fixing	Threaded bolt M8
Mounting hole	9,5 mm
Max. torque	4 Nm
Terminals	Tab connector 6,3 mm
Terminal cross section	1 mm^2
Creepage distance	6 mm
Clearance	6 mm

Overpressure disconnector

B 25 834
Damping, Commutating

10 µF / 750 Vac

Ordering code: B25834-L5106-K009

Characteristics

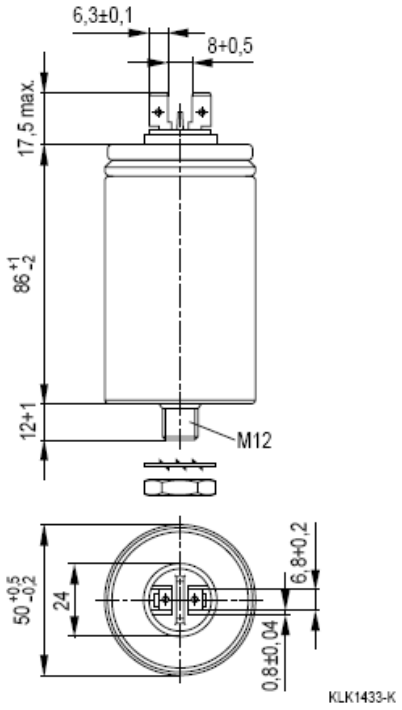
C_N, tol.	10 µF ± 10 %
U_N	AC 750 V
U_i	AC 670 V
I_{max}	18 A
L_{self}	90 nH
tan δ_0	$2 \cdot 10^{-4}$
R_S	7 mΩ

Maximum ratings

$\hat{u}$	940 V
u_s	1300 V
$\hat{i}$	500 A
I_s	1250 A
$(du/dt)_{max}$	50 V/µs
$(du/dt)_s$	125 V/µs

Test data

U_{TT}	AC 930 V, 10 s
U_{TC}	AC 2400 V, 10 s
$R_{is} \cdot C$	≥ 3000 s
tan δ (50 Hz)	$\leq 3 \cdot 10^{-4}$



Climatic data

Θ_{min}	– 25 °C
Θ_{max}	+ 85 °C
Humidity	Average relative humidity ≤ 75 %
$\alpha_{FQ(co)}$	$300/10^9$ h
$t_{LD(co)}$	100000 h
Θ_{stg}	– 55 to + 85 °C

IEC climatic category: 25/085/56

(IEC 68-1 and 2)

Θ_{test}	+ 40 °C
Rel. humidity	93 %
t_{test}	56 days
$\Delta C/C$	≤ 1 %
Δ tan δ	$\leq 3 \cdot 10^{-4}$
$R_{is} \cdot C$	≥ 3000 s

Design data

Dimensions ∅ × l	50 mm × 86 mm
Approx. weight	200 g
Impregnation	Oil
Fixing	Threaded bolt M12
Mounting hole	14 mm
Max. torque	10 Nm
Terminals	Dual tab connector 6,3 mm
Terminal cross section	1,5 mm^2
Creepage distance	10 mm
Clearance	6 mm

Overpressure disconnector