

**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  $\leq 5 g$  and the capacitors are  $\leq 60$  mm in diameter and  $\leq 160$  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 disconnecter (mechanical)

When the overpressure disconnecter 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.



**Technical data**

Standards		IEC 1071-1/2 EN 61071-1/2 VDE 0560 part 120 and 121			
Dielectric dissipation factor	$\tan \delta_0$	$2 \cdot 10^{-4}$			
Max. repetitive rate of voltage rise	$(du/dt)_{\max}$	$\frac{\hat{i}}{C}$			
Max. non-repetitive rate of voltage rise	$(du/dt)_s$	$\frac{I_s}{C}$			
Climatic data:					
Min. operating temperature	$\Theta_{\min}$	- 25 °C			
Max. operating temperature	$\Theta_{\max}$	+ 85 °C			
Average relative humidity		≤ 95 % (screw terminals/dual tab 9,5 mm) ≤ 75 % (dual tab 6,3 mm/tab 6,3 mm)			
Failure quota	$\alpha_{FQ(\text{co})}$	300 failures per $10^9$ component hours			
Load duration	$t_{LD(\text{co})}$	100 000 h			
Storage temperature limit	$\Theta_{\text{stg}}$	- 55/+ 85 °C			
IEC climatic category (IEC 68-1 and 2)		25/085/56			
Test A, cold		- 25 °C			
Test B, dry heat		+ 85 °C			
Test Ca, damp heat, steady state		56 days/40 °C/93 % rel. humidity			
Values after test Ca:					
Capacitance change	$\Delta C/C$	≤ 1 %			
		$C_N$	Screw terminals, dual tab 9,5 mm	Dual tab 6,3 mm	Tab 6,3 mm
Insulation resistance	$R_{is}$	≤ 1 μF	≥ 10 000 MΩ	≥ 3000 MΩ	≥ 1000 MΩ
Self-discharge time constant $\tau =$	$R_{is} \cdot C$	> 1 μF	≥ 10 000 s	≥ 3000 s	≥ 1000 s
Dissipation factor change	$\Delta \tan \delta$	≤ $1 \cdot 10^{-4}$		≤ $3 \cdot 10^{-4}$	≤ $3 \cdot 10^{-4}$
Test data:					
AC test voltage					
between terminals	$U_{TT}$	1,25 · $U_N$ , 50 Hz, 10 s (or DC 1,75 · $U_N$ , 10 s)			
between terminals and case	$U_{TC}$	2 · $U_i$ + 1000 V, 50 Hz, 10 s			
		$C_N$	Screw terminals, dual tab 9,5 mm	Dual tab 6,3 mm, tab 6,3 mm	
Insulation resistance	$R_{is}$	≤ 1 μF	≥ 10 000 MΩ	≥ 3000 MΩ	
Self-discharge time constant $\tau =$	$R_{is} \cdot C$	> 1 μF	≥ 10 000 s	≥ 3000 s	
Dissipation factor (50 Hz)	$\tan \delta$	≤ $3 \cdot 10^{-4}$			

# B 25 834

## Damping, Commutating

### Available ratings

$U_N$ (V) AC	500	600	750	900	1100	1400	1700	2100
$C_R$ ( $\mu$ F)								
0,10								
0,15								
0,22								
0,33								
0,47								
0,68								
1,0								
1,5								
2,2								
3,3								
4,7								
6,8								
10								
15								
22								
33								
47								
68								
100								
150								
220								

 Data book range

 Upon request

**Characteristics and ordering codes**

$C_N^{(1)}$	$I_{\max}$	$\hat{i}$	$I_s$	$R_S$ 20 °C	$L_{\text{self}}$	Dimensions $d \times l$	Fig.	Appr. weight	Ordering code	Pg.
$\mu\text{F}$	A	A	A	m $\Omega$	nH	mm		g		
<b><math>U_N = \text{AC } 500 \text{ V}</math></b>			<b><math>U_i = \text{AC } 450 \text{ V}</math></b>			<b><math>\hat{u} = 630 \text{ V}</math></b>		<b><math>U_{\text{TT}} = \text{AC } 620 \text{ V, } 10 \text{ s}</math></b>		
						<b><math>u_s = 860 \text{ V}</math></b>		<b><math>U_{\text{TC}} = \text{AC } 2000 \text{ V, } 10 \text{ s}</math></b>		
33	18	1300	3300	4,9	90	60 × 86	3	290	B25834-L3336-K009	138
47	80	1900	4700	1,9	110	79,2 × 104	2	610	B25834-D3476-K004	
68	80	2700	6800	1,5	110	99,3 × 104	2	970	B25834-D3686-K004	
100	80	4000	10000	1,4	180	79,2 × 248	2	1500	B25834-D3107-K004	
220	80	8800	22000	1,2	180	99,3 × 248	2	2300	B25834-D3227-K004	
<b><math>U_N = \text{AC } 600 \text{ V}</math></b>			<b><math>U_i = \text{AC } 530 \text{ V}</math></b>			<b><math>\hat{u} = 750 \text{ V}</math></b>		<b><math>U_{\text{TT}} = \text{AC } 750 \text{ V, } 10 \text{ s}</math></b>		
						<b><math>u_s = 1000 \text{ V}</math></b>		<b><math>U_{\text{TC}} = \text{AC } 2100 \text{ V, } 10 \text{ s}</math></b>		
0,68	10	110	270	25,0	50	25 × 48	5	30	B25834-F4684-M001	140
1,0	10	160	400	18,0	50	25 × 48	5	30	B25834-F4105-K001	
1,5	16	240	600	14,0	50	30 × 48	6	50	B25834-F4155-K001	
2,2	16	350	880	10,0	50	30 × 48	6	50	B25834-F4225-K001	
3,3	16	530	1300	8,7	50	35 × 48	7	60	B25834-F4335-K001	
4,7	16	190	470	16,0	90	30 × 80	6	70	B25834-F4475-K001	
6,8	16	270	680	13,0	90	35 × 80	7	100	B25834-F4685-K001	142
10	18	400	1000	8,0	90	40 × 86	3	130	B25834-L4106-K009	
15	18	600	1500	6,5	90	50 × 86	3	200	B25834-L4156-K009	
22	60	880	2200	3,1	110	64,2 × 104	2	400	B25834-D4226-K004	
33	80	1300	3300	2,4	110	79,2 × 104	2	610	B25834-D4336-K004	
33	64	1300	3300	2,4	110	79,2 × 104	4	610	B25834-D4336-K009	
47	80	1900	4700	2,0	110	89,3 × 104	2	780	B25834-D4476-K004	144
47	64	1900	4700	2,0	110	89,3 × 104	4	780	B25834-D4476-K009	
68	80	2700	6800	1,7	180	64,2 × 248	2	960	B25834-D4686-K004	
100	80	4000	10000	1,5	180	79,2 × 248	2	1500	B25834-D4107-K004	
150	80	6000	15000	1,3	180	89,3 × 248	2	1900	B25834-D4157-K004	

1) Capacitance tolerances: For  $C_N < 1,0 \mu\text{F} \pm 20 \%$ , for  $C_N \geq 1,0 \mu\text{F} \pm 10 \%$

## B 25 834 Damping, Commutating

### Characteristics and ordering codes

$C_N^{(1)}$	$I_{\max}$	$\hat{i}$	$I_s$	$R_S$ 20 °C	$L_{\text{self}}$	Dimensions $d \times l$	Fig.	Appr. weight	Ordering code	Pg.
$\mu\text{F}$	A	A	A	m $\Omega$	nH	mm		g		
<b><math>U_N = \text{AC } 750 \text{ V}</math></b>			<b><math>U_l = \text{AC } 670 \text{ V}</math></b>			<b><math>\hat{u} = 940 \text{ V}</math></b>		<b><math>U_{\text{TT}} = \text{AC } 930 \text{ V, } 10 \text{ s}</math></b>		
						<b><math>u_s = 1300 \text{ V}</math></b>		<b><math>U_{\text{TC}} = \text{AC } 2400 \text{ V, } 10 \text{ s}</math></b>		
4,7	16	240	590	13,0	90	35,0 × 80	7	100	B25834-F5475-K001	146
6,8	18	340	850	8,4	90	40,0 × 86	3	130	B25834-L5686-K009	148
10	18	500	1250	7,0	90	50,0 × 86	3	200	B25834-L5106-K009	
15	18	750	1900	5,9	90	60,0 × 86	3	290	B25834-L5156-K009	148
22	80	1100	2800	2,6	110	79,2 × 104	2	610	B25834-D5226-K004	
22	64	1100	2800	2,5	110	79,2 × 104	4	610	B25834-D5226-K009	148
33	80	1700	4100	2,0	110	89,3 × 104	2	780	B25834-D5336-K004	
33	64	1700	4100	1,9	110	89,3 × 104	4	780	B25834-D5336-K009	148
47	80	2400	5900	1,7	180	64,2 × 248	2	960	B25834-D5476-K004	
68	80	3400	8500	1,6	180	79,2 × 248	2	1500	B25834-D5686-K004	150
100	80	5000	12500	1,4	180	89,3 × 248	2	1900	B25834-D5107-K004	
<b><math>U_N = \text{AC } 900 \text{ V}</math></b>			<b><math>U_l = \text{AC } 780 \text{ V}</math></b>			<b><math>\hat{u} = 1100 \text{ V}</math></b>		<b><math>U_{\text{TT}} = \text{AC } 1150 \text{ V, } 10 \text{ s}</math></b>		
						<b><math>u_s = 1500 \text{ V}</math></b>		<b><math>U_{\text{TC}} = \text{AC } 2600 \text{ V, } 10 \text{ s}</math></b>		
0,10	10	50	120	33,0	50	25,0 × 48	5	30	B25834-F6104-M001	152
0,15	10	70	180	24,0	50	25,0 × 48	5	30	B25834-F6154-M001	152
0,22	10	100	260	17,0	50	25,0 × 48	5	30	B25834-F6224-M001	
0,33	10	90	220	29,0	50	25,0 × 48	5	30	B25834-F6334-M001	152
0,47	10	130	320	21,0	50	25,0 × 48	5	30	B25834-F6474-M001	
0,68	10	180	460	16,0	50	25,0 × 48	5	30	B25834-F6684-M001	154
1,0	16	300	750	12,0	50	30,0 × 48	6	50	B25834-F6105-K001	
1,5	16	450	1100	9,8	50	35,0 × 48	7	60	B25834-F6155-K001	154
2,2	16	150	390	18,0	90	30,0 × 80	6	70	B25834-F6225-K001	
3,3	16	230	580	14,0	90	35,0 × 80	7	100	B25834-F6335-K001	156
4,7	18	330	820	9,0	90	40,0 × 86	3	130	B25834-L6475-K009	
6,8	18	480	1200	7,3	90	50,0 × 86	3	200	B25834-L6685-K009	156
10	18	700	1750	6,1	90	60,0 × 86	3	290	B25834-L6106-K009	
15	60	1100	2600	2,8	100	79,2 × 104	2	610	B25834-D6156-K004	158
15	60	1100	2600	2,7	100	79,2 × 104	4	610	B25834-D6156-K009	
22	80	1500	3900	2,2	110	89,3 × 104	2	780	B25834-D6226-K004	158
22	64	1500	3900	2,1	110	89,3 × 104	4	780	B25834-D6226-K009	
33	80	2300	5800	1,8	180	64,2 × 248	2	960	B25834-D6336-K004	158
47	80	3300	8200	1,6	180	79,2 × 248	2	1500	B25834-D6476-K004	
68	80	4800	12000	1,4	180	89,3 × 248	2	1900	B25834-D6686-K004	158

1) Capacitance tolerances: For  $C_N < 1,0 \mu\text{F} \pm 20 \%$ , for  $C_N \geq 1,0 \mu\text{F} \pm 10 \%$

**Characteristics and ordering codes**

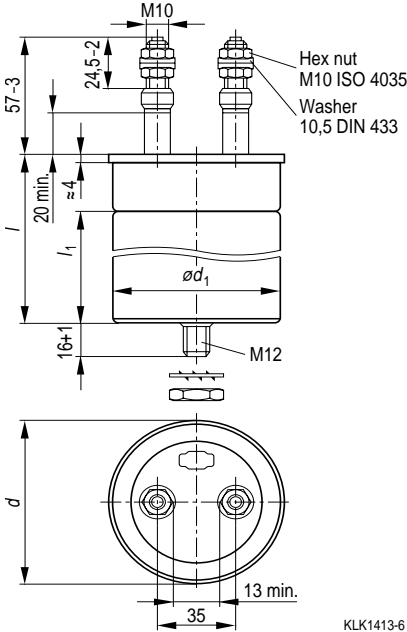
$C_N^{1)}$	$I_{max}$	$\hat{i}$	$I_s$	$R_S$ 20 °C	$L_{self}$	Dimensions $d \times l$	Fig.	Appr. weight	Ordering code	Pg.
$\mu F$	A	A	A	m $\Omega$	nH	mm		g		
<b><math>U_N = AC 1100 V</math></b>										
$U_i = AC 990 V$						$\hat{u} = 1400 V$		$U_{TT} = AC 1400 V, 10 s$		
						$u_s = 1900 V$		$U_{TC} = AC 3000 V, 10 s$		
4,7	18	380	940	17,0	140	40,0 × 156	3	240	B25834-L7475-K009	
6,8	18	540	1400	13,0	140	50,0 × 156	3	370	B25834-L7685-K009	
10	60	800	2000	6,3	150	64,2 × 176	1	680	B25834-D7106-K004	
15	80	1200	3000	4,9	150	79,2 × 176	1	1000	B25834-D7156-K004	
22	80	1800	4400	3,7	150	89,3 × 176	1	1300	B25834-D7226-K004	
33	80	2600	6600	2,8	150	99,3 × 176	1	1600	B25834-D7336-K004	160
<b><math>U_N = AC 1400 V</math></b>										
$U_i = AC 1300 V$						$\hat{u} = 1800 V$		$U_{TT} = AC 1800 V, 10 s$		
						$u_s = 2400 V$		$U_{TC} = AC 3600 V, 10 s$		
4,7	60	470	1200	9,3	150	64,2 × 176	1	680	B25834-D0475-K004	
6,8	60	680	1700	6,6	150	64,2 × 176	1	680	B25834-D0685-K004	
10	80	1000	2500	5,2	150	79,2 × 176	1	1000	B25834-D0106-K004	162
15	80	1500	3800	3,8	150	89,3 × 176	1	1300	B25834-D0156-K004	
22	80	2200	5500	2,9	150	99,3 × 176	1	1600	B25834-D0226-K004	
<b><math>U_N = AC 1700 V</math></b>										
$U_i = AC 1500 V$						$\hat{u} = 2100 V$		$U_{TT} = AC 2100 V, 10 s$		
						$u_s = 2900 V$		$U_{TC} = AC 4000 V, 10 s$		
4,7	60	560	1400	13,0	220	64,2 × 248	1	960	B25834-D1475-K004	
6,8	60	820	2000	9,0	220	64,2 × 248	1	960	B25834-D1685-K004	
10	80	1200	3000	7,0	220	79,2 × 248	1	1500	B25834-D1106-K004	
15	80	1800	4500	5,3	220	89,3 × 248	1	1900	B25834-D1156-K004	
22	80	2600	6600	3,9	220	99,3 × 248	1	2300	B25834-D1226-K004	164
<b><math>U_N = AC 2100 V</math></b>										
$U_i = AC 1900 V$						$\hat{u} = 2600 V$		$U_{TT} = AC 2600 V, 10 s$		
						$u_s = 3600 V$		$U_{TC} = AC 4800 V, 10 s$		
3,3	60	530	1300	13,0	220	64,2 × 248	1	960	B25834-D2335-K004	
4,7	60	750	1900	9,4	220	64,2 × 248	1	960	B25834-D2475-K004	
6,8	80	1100	2700	7,4	220	79,2 × 248	1	1500	B25834-D2685-K004	
10	80	1600	4000	5,4	220	89,3 × 248	1	1900	B25834-D2106-K004	166
15	80	2400	6000	4,1	220	99,3 × 248	1	2300	B25834-D2156-K004	

1) Capacitance tolerance  $\pm 10 \%$

# B 25 834

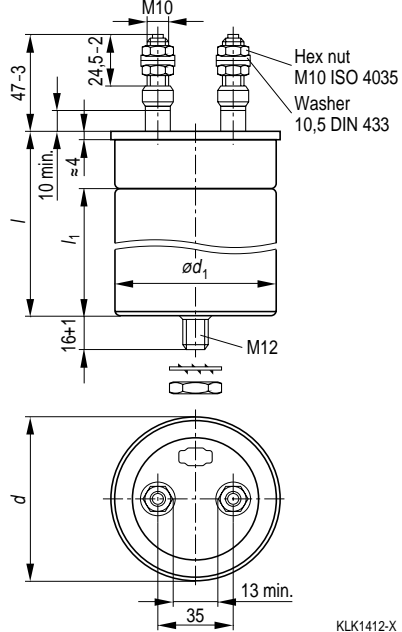
## Damping, Commutating

**Dimensional drawing 1**  
Screw terminals M10



KLK1413-6

**Dimensional drawing 2**  
Screw terminals M10



KLK1412-X

Dimensions in mm

$d-1,2$	$l-4$	$\varnothing d_1-0,4$	$l_{1\min}$	Creepage distance	Clearance
64,2	176	60,2	135	20	13
64,2	248	60,2	204		
79,2	176	75,2	135		
79,2	248	75,2	204		
89,3	176	85,2	135		
89,3	248	85,2	204		
99,3	176	95,2	135		
99,3	248	95,2	204		
Max. torque terminals*)				7 Nm	

Dimensions in mm

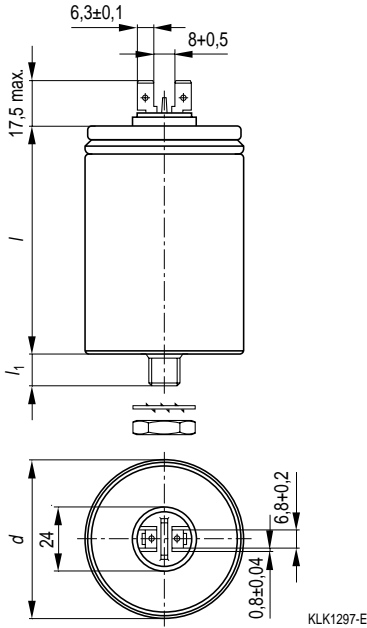
$d-1,2$	$l-4$	$\varnothing d_1-0,4$	$l_{1\min}$	Creepage distance	Clearance
64,2	104	60,2	135	10	10
64,2	248	60,2	204		
79,2	104	75,2	75		
79,2	248	75,2	204		
89,3	104	85,2	75		
89,3	248	85,2	204		
99,3	104	95,2	75		
99,3	248	95,2	204		
Max. torque terminals*)				7 Nm	

\*) The terminal torque must not act upon the ceramic. So the lead should be locked between two nuts.

**Mounting parts** (included in delivery)

Threaded bolt	Max. torque	Toothed washer	Hex nut
M12	10 Nm	J 12,5 DIN 6797	M12 ISO 4035

**Dimensional drawing 3**  
 Dual tab connectors 6,3 mm

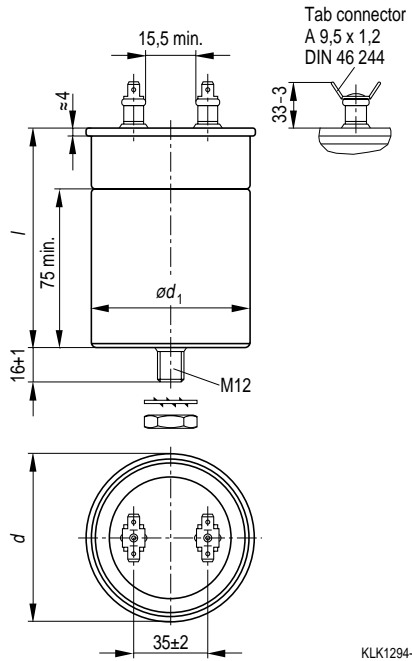


Dimensions in mm

$d_{-0,2}^{+0,5}$	$l_{-2}^{+1}$	$l_1+1^*$	Creepage distance	Clearance
40	86	8	10	6
40	156	8		
50	86	12		
50	156	12		
60	86	12		

\*) 8 mm = threaded bolt M8  
 12 mm = threaded bolt M12

**Dimensional drawing 4**  
 Dual tab connectors 9,5 mm



Dimensions in mm

$d-1,2$	$l-4$	$\varnothing d_1-0,4$	Creepage distance	Clearance
79,2	104	75,2	10	10
89,3	104	85,2		

**Mounting parts** (included in delivery)

Threaded bolt	Max. torque	Toothed washer	Hex nut
M8	4 Nm	J 8,2 DIN 6797	M 8 ISO 4035
M12	10 Nm	J 12,5 DIN 6797	M12 ISO 4035

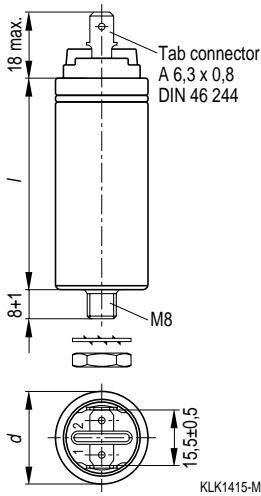


# B 25 834

## Damping, Commutating

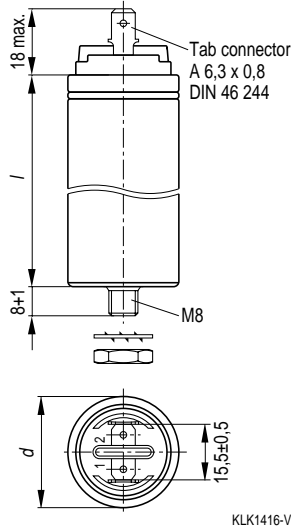
### Dimensional drawing 5

Tab connectors 6,3 mm



### Dimensional drawing 6

Tab connectors 6,3 mm



Dimensions in mm

$d^{+0,5}_{-0,2}$	$l \pm 2$	Creepage distance	Clearance
25	48	9	7

Dimensions in mm

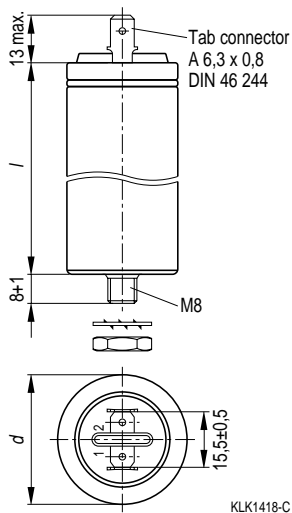
$d^{+0,5}_{-0,2}$	$l \pm 2$	Creepage distance	Clearance
30	48	9	7
30	80		

### Mounting parts (included in delivery)

Threaded bolt	Max. torque	Toothed washer	Hex nut
M8	4 Nm	J 8,2 DIN 6797	M 8 ISO 4035

**Dimensional drawing 7**

Tab connectors 6,3 mm



Dimensions in mm

$d^{+0,5}_{-0,2}$	$l \pm 2$	Creepage distance	Clearance
35	48	6	6
35	80		

**Mounting parts** (included in delivery)

Threaded bolt	Max. torque	Toothed washer	Hex nut
M8	4 Nm	J 8,2 DIN 6797	M 8 ISO 4035

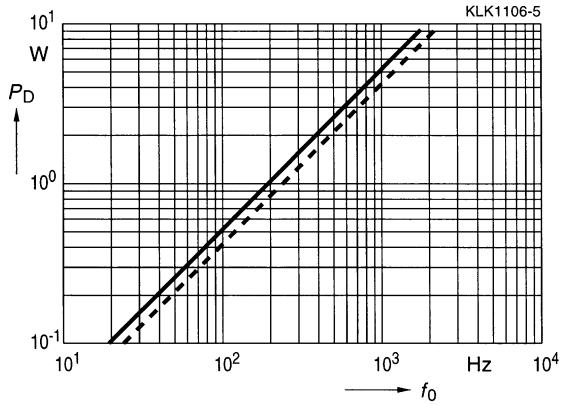


**Thermal data**

**B25834-L3336-K009**

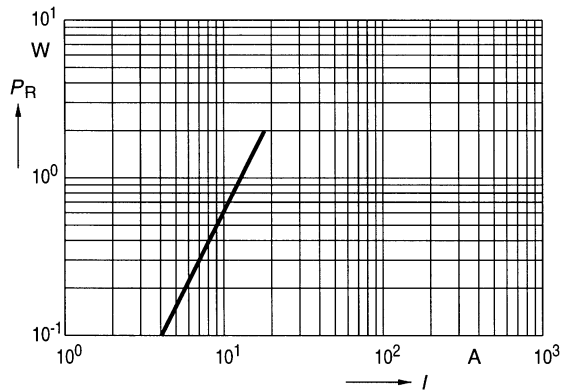
Dielectric power dissipation  $P_D$   
 versus repetition frequency  $f_0$

$\hat{u}_{ac} = 500 \text{ V}$  —————  
 $\hat{u}_{ac} = 450 \text{ V}$  - - - - -



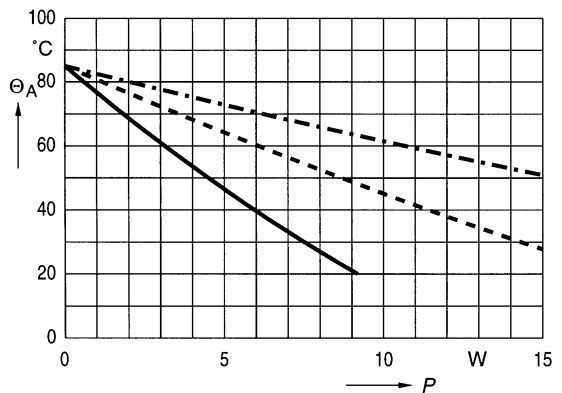
Ohmic power dissipation  $P_R$   
 versus rms current value  $I$

$R_S (85^\circ\text{C}) = 6,1 \text{ m}\Omega$



Permissible ambient temperature  $\Theta_A$   
 versus total power dissipation  $P$   
 (Upright mounting position)

Natural cooling —————  
 Forced cooling 2 m/s - - - - -  
 Permissible capacitor  
 temperature - - - - -



# B 25 834

## Damping, Commutating

3,3  $\mu\text{F}$  / 600 Vac

Ordering code: B25834-F4335-K001

### Characteristics

$C_N$ , tol.	3,3 $\mu\text{F}$ $\pm$ 10 %
$U_N$	AC 600 V
$U_i$	AC 530 V
$I_{\text{max}}$	16 A
$L_{\text{self}}$	50 nH
$\tan \delta_0$	$2 \cdot 10^{-4}$
$R_S$	8,7 m $\Omega$

### Maximum ratings

$\hat{u}$	750 V
$u_s$	1000 V
$\hat{i}$	530 A
$I_s$	1300 A
$(du/dt)_{\text{max}}$	160 V/ $\mu\text{s}$
$(du/dt)_s$	400 V/ $\mu\text{s}$

### Test data

$U_{TT}$	AC 750 V, 10 s
$U_{TC}$	AC 2100 V, 10 s
$R_{is} \cdot C$	$\geq 3000$ s
$\tan \delta$ (50 Hz)	$\leq 3 \cdot 10^{-4}$

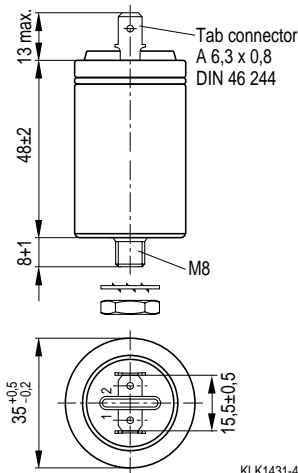
### Climatic data

$\Theta_{\text{min}}$	- 25 $^{\circ}\text{C}$
$\Theta_{\text{max}}$	+ 85 $^{\circ}\text{C}$
Humidity	Average relative humidity $\leq 75$ %
$\alpha_{\text{FQ}}(\text{co})$	300/10 <sup>9</sup> h
$t_{\text{LD}}(\text{co})$	100000 h
$\Theta_{\text{stg}}$	- 55 to + 85 $^{\circ}\text{C}$

### IEC climatic category: 25/085/56

(IEC 68-1 and 2)

$\Theta_{\text{test}}$	+ 40 $^{\circ}\text{C}$
Rel. humidity	93 %
$t_{\text{test}}$	56 days
$\Delta C/C$	$\leq 1$ %
$\Delta \tan \delta$	$\leq 3 \cdot 10^{-4}$
$R_{is} \cdot C$	$\geq 1000$ s



### Design data

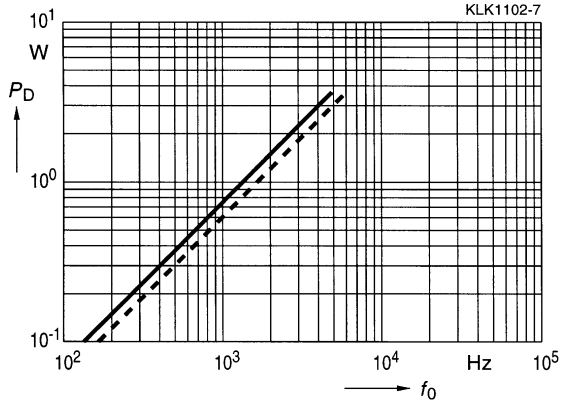
Dimensions $\varnothing \times l$	35 mm $\times$ 48 mm
Approx. weight	60 g
Impregnation	Oil
Fixing	Threaded bolt M8
Mounting hole	9,5 mm
Max. torque	4 Nm
Terminals	Tab connector 6,3 mm
Terminal cross section	1 mm <sup>2</sup>
Creepage distance	6 mm
Clearance	6 mm
Overpressure disconnector	

**Thermal data**

**B25834-F4335-K001**

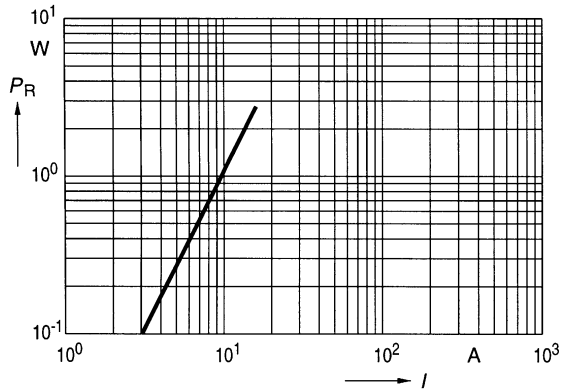
Dielectric power dissipation  $P_D$   
 versus repetition frequency  $f_0$

$\hat{u}_{ac} = 600 \text{ V}$  —————  
 $\hat{u}_{ac} = 540 \text{ V}$  - - - - -



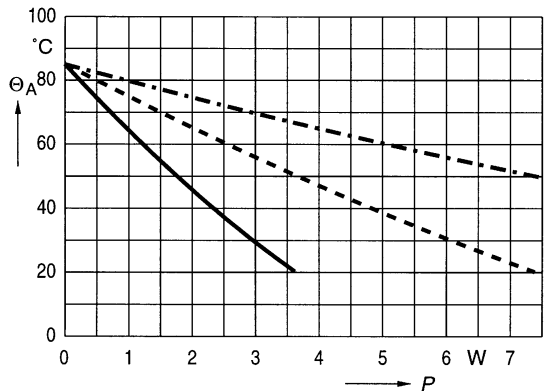
Ohmic power dissipation  $P_R$   
 versus rms current value  $I$

$R_S (85^\circ\text{C}) = 10,8 \text{ m}\Omega$



Permissible ambient temperature  $\Theta_A$   
 versus total power dissipation  $P$   
 (Upright mounting position)

Natural cooling —————  
 Forced cooling 2 m/s - - - - -  
 Permissible capacitor  
 temperature - - - - -



# B 25 834

## Damping, Commutating

10  $\mu$ F / 600 Vac

Ordering code: B25834-L4106-K009

### Characteristics

$C_N$ , tol.	10 $\mu$ F $\pm$ 10 %
$U_N$	AC 600 V
$U_i$	AC 530 V
$I_{max}$	18 A
$L_{self}$	90 nH
$\tan \delta_0$	$2 \cdot 10^{-4}$
$R_S$	8 m $\Omega$

### Maximum ratings

$\hat{u}$	750 V
$u_s$	1000 V
$\hat{i}$	400 A
$I_s$	1000 A
$(du/dt)_{max}$	40 V/ $\mu$ s
$(du/dt)_s$	100 V/ $\mu$ s

### Test data

$U_{TT}$	AC 750 V, 10 s
$U_{TC}$	AC 2100 V, 10 s
$R_{is} \cdot C$	$\geq 3000$ s
$\tan \delta$ (50 Hz)	$\leq 3 \cdot 10^{-4}$

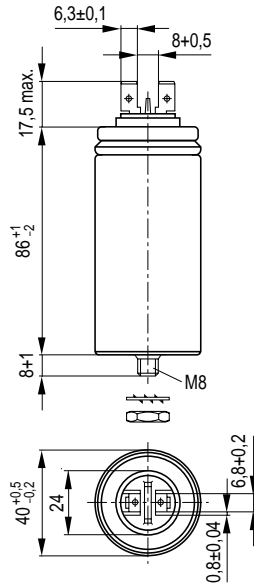
### Climatic data

$\Theta_{min}$	- 25 °C
$\Theta_{max}$	+ 85 °C
Humidity	Average relative humidity $\leq$ 75 %
$\alpha_{FQ}(co)$	300/10 <sup>9</sup> h
$t_{LD}(co)$	100000 h
$\Theta_{stg}$	- 55 to + 85 °C

### IEC climatic category: 25/085/56

(IEC 68-1 and 2)

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



### Design data

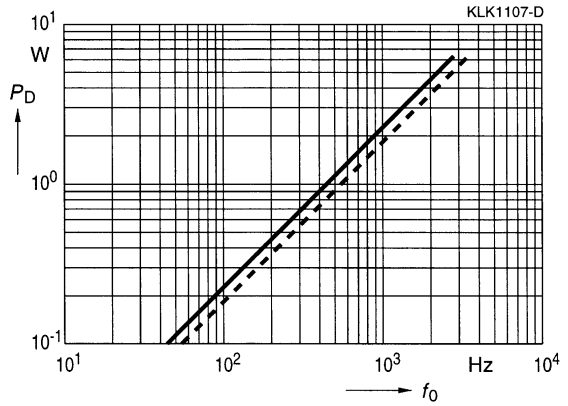
Dimensions $\varnothing \times l$	40 mm $\times$ 86 mm
Approx. weight	130 g
Impregnation	Oil
Fixing	Threaded bolt M8
Mounting hole	9,5 mm
Max. torque	4 Nm
Terminals	Dual tab connector 6,3 mm
Terminal cross section	1,5 mm <sup>2</sup>
Creepage distance	10 mm
Clearance	6 mm
Overpressure disconnector	

**Thermal data**

**B25834-L4106-K009**

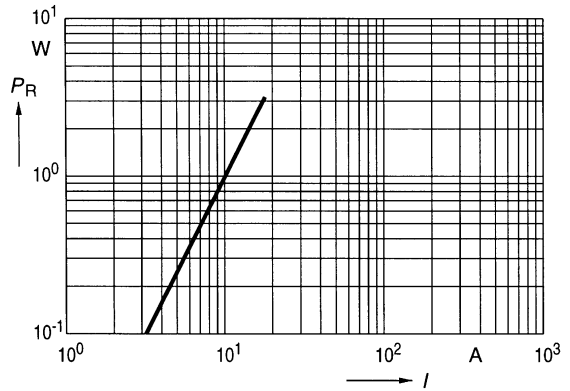
Dielectric power dissipation  $P_D$   
 versus repetition frequency  $f_0$

$\hat{u}_{ac} = 600 \text{ V}$  —————  
 $\hat{u}_{ac} = 540 \text{ V}$  - - - - -



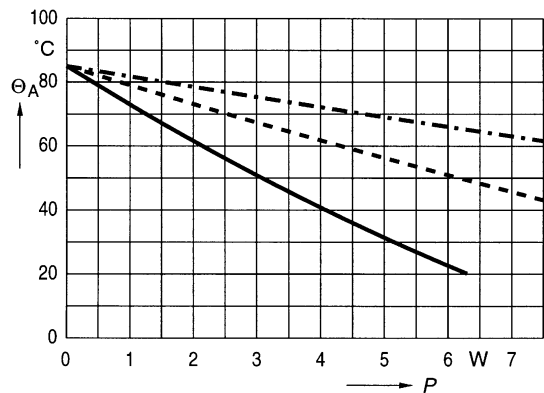
Ohmic power dissipation  $P_R$   
 versus rms current value  $I$

$R_S (85^\circ\text{C}) = 9,8 \text{ m}\Omega$



Permissible ambient temperature  $\Theta_A$   
 versus total power dissipation  $P$   
 (Upright mounting position)

Natural cooling —————  
 Forced cooling 2 m/s - - - - -  
 Permissible capacitor  
 temperature - - - - -





# B 25 834

## Damping, Commutating

100  $\mu$ F / 600 Vac

Ordering code: B25834-D4107-K004

### Characteristics

$C_N$ , tol.	100 $\mu$ F $\pm$ 10 %
$U_N$	AC 600 V
$U_i$	AC 530 V
$I_{max}$	80 A
$L_{self}$	180 nH
$\tan \delta_0$	$2 \cdot 10^{-4}$
$R_S$	1,5 m $\Omega$

### Maximum ratings

$\hat{u}$	750 V
$u_s$	1000 V
$\hat{i}$	4 kA
$I_s$	10 kA
$(du/dt)_{max}$	40 V/ $\mu$ s
$(du/dt)_s$	100 V/ $\mu$ s

### Test data

$U_{TT}$	AC 750 V, 10 s
$U_{TC}$	AC 2100 V, 10 s
$R_{is} \cdot C$	$\geq 10000$ s
$\tan \delta$ (50 Hz)	$\leq 3 \cdot 10^{-4}$

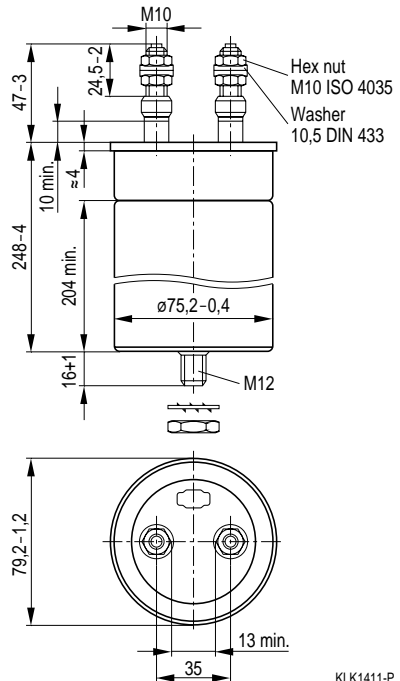
### Climatic data

$\Theta_{min}$	- 25 °C
$\Theta_{max}$	+ 85 °C
Humidity	Average relative humidity $\leq$ 95 %
$\alpha_{FQ(co)}$	300/10 <sup>9</sup> h
$t_{LD(co)}$	100000 h
$\Theta_{stg}$	- 55 to + 85 °C

### IEC climatic category: 25/085/56

(IEC 68-1 and 2)

$\Theta_{test}$	+ 40 °C
Rel. humidity	93 %
$t_{test}$	56 days
$\Delta C/C$	$\leq$ 1 %
$\Delta \tan \delta$	$\leq 1 \cdot 10^{-4}$
$R_{is} \cdot C$	$\geq 10000$ s



### Design data

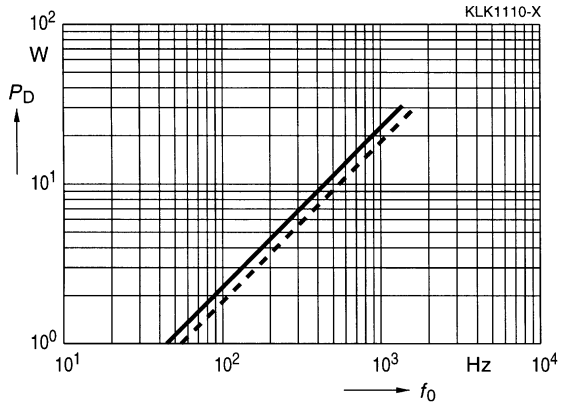
Dimensions $\varnothing \times l$	79,2 mm $\times$ 248 mm
Approx. weight	1500 g
Impregnation	Oil
Fixing	Threaded bolt M12
Mounting hole	14 mm
Max. torque	10 Nm
Terminals	Screw terminals M10
Max. torque	7 Nm
Terminal cross section	16 mm <sup>2</sup>
Creepage distance	10 mm
Clearance	10 mm
Overpressure disconnecter	

**Thermal data**

**B25834-D4107-K004**

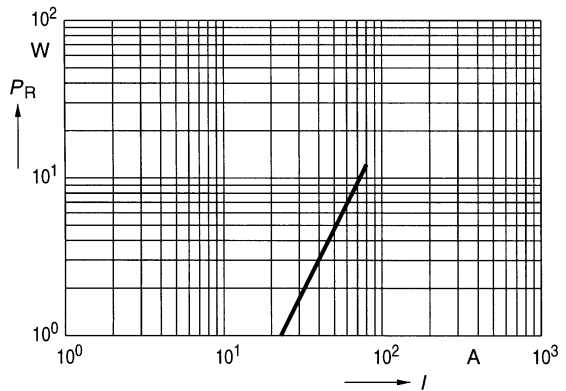
Dielectric power dissipation  $P_D$   
 versus repetition frequency  $f_0$

$\hat{u}_{ac} = 600 \text{ V}$  —————  
 $\hat{u}_{ac} = 540 \text{ V}$  - - - - -



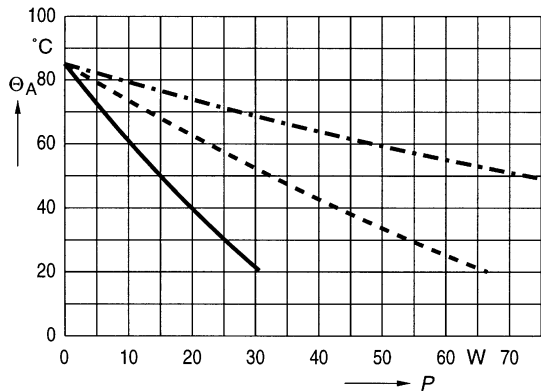
Ohmic power dissipation  $P_R$   
 versus rms current value  $I$

$R_S (85^\circ\text{C}) = 1,9 \text{ m}\Omega$



Permissible ambient temperature  $\Theta_A$   
 versus total power dissipation  $P$   
 (Upright mounting position)

Natural cooling —————  
 Forced cooling 2 m/s - - - - -  
 Permissible capacitor  
 temperature - · - · - ·



# B 25 834

## Damping, Commutating

4,7  $\mu\text{F}$  / 750 Vac

Ordering code: B25834-F5475-K001

### Characteristics

$C_N$ , tol.	4,7 $\mu\text{F}$ $\pm$ 10 %
$U_N$	AC 750 V
$U_i$	AC 670 V
$I_{\text{max}}$	16 A
$L_{\text{self}}$	90 nH
$\tan \delta_0$	$2 \cdot 10^{-4}$
$R_S$	13 m $\Omega$

### Maximum ratings

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

### Test data

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

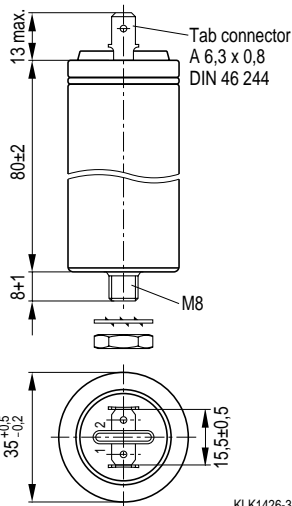
### Climatic data

$\Theta_{\text{min}}$	- 25 °C
$\Theta_{\text{max}}$	+ 85 °C
Humidity	Average relative humidity $\leq$ 75 %
$\alpha_{\text{FQ}}(\text{co})$	300/10 <sup>9</sup> h
$t_{\text{LD}}(\text{co})$	100000 h
$\Theta_{\text{stg}}$	- 55 to + 85 °C

### IEC climatic category: 25/085/56

(IEC 68-1 and 2)

$\Theta_{\text{test}}$	+ 40 °C
Rel. humidity	93 %
$t_{\text{test}}$	56 days
$\Delta C/C$	$\leq 1$ %
$\Delta \tan \delta$	$\leq 3 \cdot 10^{-4}$
$R_{is} \cdot C$	$\geq 1000$ s



### Design data

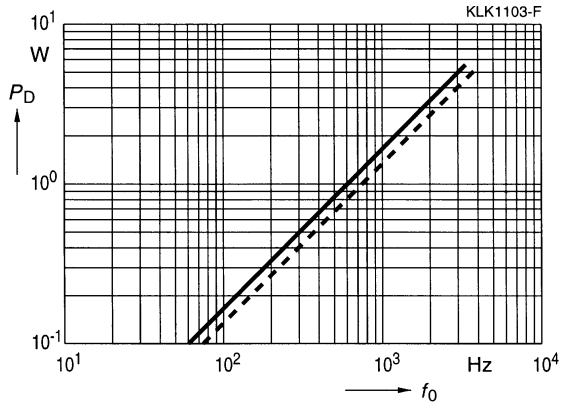
Dimensions $\varnothing \times l$	35 mm $\times$ 80 mm
Approx. weight	100 g
Impregnation	Oil
Fixing	Threaded bolt M8
Mounting hole	9,5 mm
Max. torque	4 Nm
Terminals	Tab connector 6,3 mm
Terminal cross section	1 mm <sup>2</sup>
Creepage distance	6 mm
Clearance	6 mm
Overpressure disconnecter	

**Thermal data**

**B25834-F5475-K001**

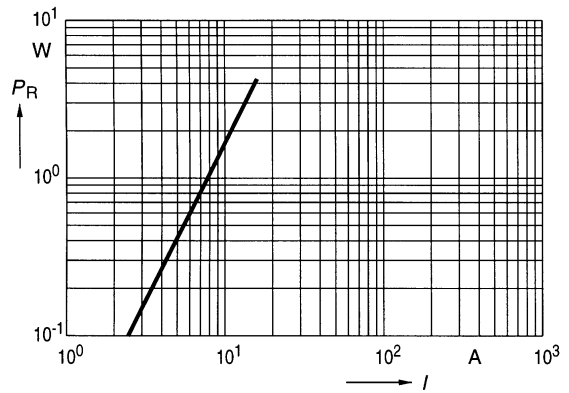
Dielectric power dissipation  $P_D$   
 versus repetition frequency  $f_0$

$\hat{u}_{ac} = 750 \text{ V}$  —————  
 $\hat{u}_{ac} = 675 \text{ V}$  - - - - -



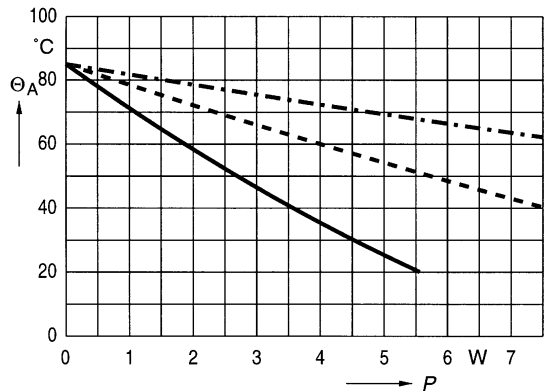
Ohmic power dissipation  $P_R$   
 versus rms current value  $I$

$R_S (85^\circ\text{C}) = 16,6 \text{ m}\Omega$



Permissible ambient temperature  $\Theta_A$   
 versus total power dissipation  $P$   
 (Upright mounting position)

Natural cooling —————  
 Forced cooling 2 m/s - - - - -  
 Permissible capacitor  
 temperature - - - - -



# B 25 834

## Damping, Commutating

10  $\mu\text{F}$  / 750 Vac

Ordering code: B25834-L5106-K009

### Characteristics

$C_N$ , tol.	10 $\mu\text{F}$ $\pm$ 10 %
$U_N$	AC 750 V
$U_i$	AC 670 V
$I_{\text{max}}$	18 A
$L_{\text{self}}$	90 nH
$\tan \delta_0$	$2 \cdot 10^{-4}$
$R_S$	7 m $\Omega$

### Maximum ratings

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

### Test data

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

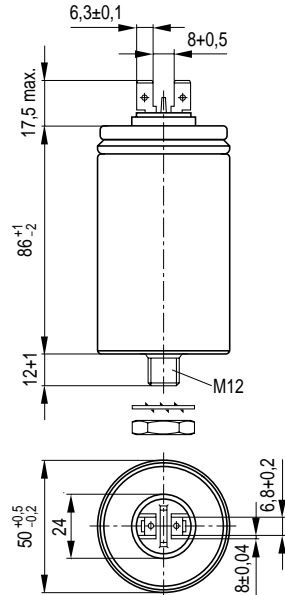
### Climatic data

$\Theta_{\text{min}}$	- 25 °C
$\Theta_{\text{max}}$	+ 85 °C
Humidity	Average relative humidity $\leq 75$ %
$\alpha_{\text{FQ}}(\text{co})$	300/10 <sup>9</sup> h
$t_{\text{LD}}(\text{co})$	100000 h
$\Theta_{\text{stg}}$	- 55 to + 85 °C

### IEC climatic category: 25/085/56

(IEC 68-1 and 2)

$\Theta_{\text{test}}$	+ 40 °C
Rel. humidity	93 %
$t_{\text{test}}$	56 days
$\Delta C/C$	$\leq 1$ %
$\Delta \tan \delta$	$\leq 3 \cdot 10^{-4}$
$R_{is} \cdot C$	$\geq 3000$ s



### Design data

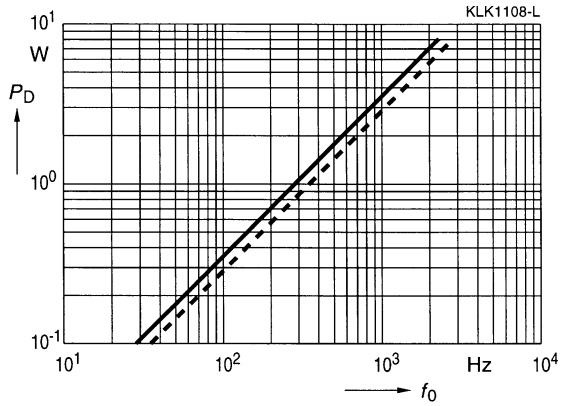
Dimensions $\varnothing \times l$	50 mm $\times$ 86 mm
Approx. weight	200 g
Impregnation	Oil
Fixing	Threaded bolt M12
Mounting hole	14 mm
Max. torque	10 Nm
Terminals	Dual tab connector 6,3 mm
Terminal cross section	1,5 mm <sup>2</sup>
Creepage distance	10 mm
Clearance	6 mm
Overpressure disconnector	

**Thermal data**

**B25834-L5106-K009**

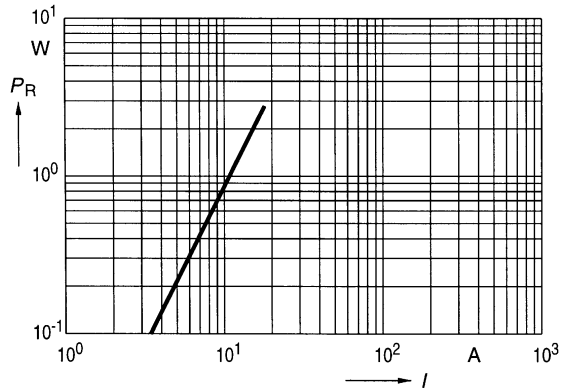
Dielectric power dissipation  $P_D$   
 versus repetition frequency  $f_0$

$\hat{u}_{ac} = 750 \text{ V}$  —————  
 $\hat{u}_{ac} = 675 \text{ V}$  - - - - -



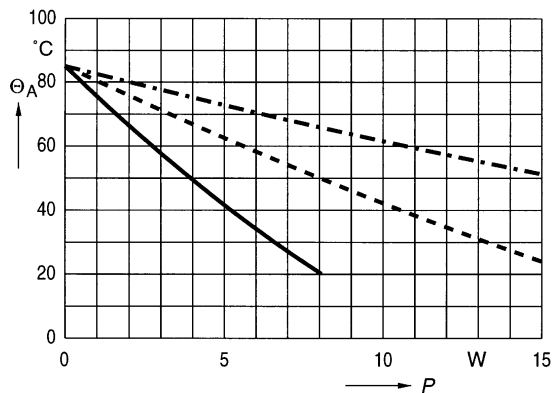
Ohmic power dissipation  $P_R$   
 versus rms current value  $I$

$R_S (85^\circ\text{C}) = 8,6 \text{ m}\Omega$



Permissible ambient temperature  $\Theta_A$   
 versus total power dissipation  $P$   
 (Upright mounting position)

Natural cooling —————  
 Forced cooling 2 m/s - - - - -  
 Permissible capacitor  
 temperature - - - - -



# B 25 834

## Damping, Commutating

100  $\mu$ F / 750 Vac

Ordering code: B25834-D5107-K004

### Characteristics

$C_N$ , tol.	100 $\mu$ F $\pm$ 10 %
$U_N$	AC 750 V
$U_i$	AC 670 V
$I_{max}$	80 A
$L_{self}$	180 nH
$\tan \delta_0$	$2 \cdot 10^{-4}$
$R_S$	1,4 m $\Omega$

### Maximum ratings

$\hat{u}$	940 V
$u_s$	1300 V
$\hat{i}$	5 kA
$I_s$	12,5 kA
$(du/dt)_{max}$	50 V/ $\mu$ s
$(du/dt)_s$	125 V/ $\mu$ s

### Test data

$U_{TT}$	AC 930 V, 10 s
$U_{TC}$	AC 2400 V, 10 s
$R_{is} \cdot C$	$\geq 10000$ s
$\tan \delta$ (50 Hz)	$\leq 3 \cdot 10^{-4}$

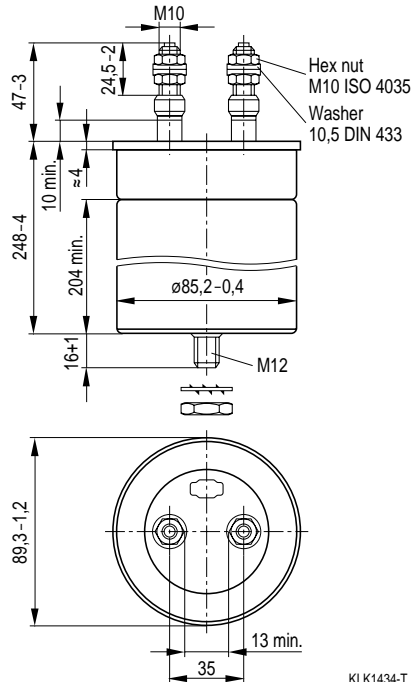
### Climatic data

$\Theta_{min}$	- 25 $^{\circ}$ C
$\Theta_{max}$	+ 85 $^{\circ}$ C
Humidity	Average relative humidity $\leq$ 95 %
$\alpha_{FQ(co)}$	$300/10^9$ h
$t_{LD(co)}$	100000 h
$\Theta_{stg}$	- 55 to + 85 $^{\circ}$ C

### IEC climatic category: 25/085/56

(IEC 68-1 and 2)

$\Theta_{test}$	+ 40 $^{\circ}$ C
Rel. humidity	93 %
$t_{test}$	56 days
$\Delta C/C$	$\leq$ 1 %
$\Delta \tan \delta$	$\leq 1 \cdot 10^{-4}$
$R_{is} \cdot C$	$\geq 10000$ s



### Design data

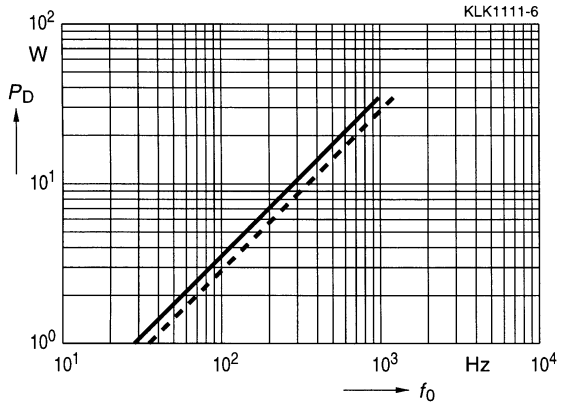
Dimensions $\varnothing \times l$	89,3 mm $\times$ 248 mm
Approx. weight	1900 g
Impregnation	Oil
Fixing	Threaded bolt M12
Mounting hole	14 mm
Max. torque	10 Nm
Terminals	Screw terminals M10
Max. torque	7 Nm
Terminal cross section	16 mm <sup>2</sup>
Creepage distance	10 mm
Clearance	10 mm
Overpressure disconnector	

**Thermal data**

**B25834-D5107-K004**

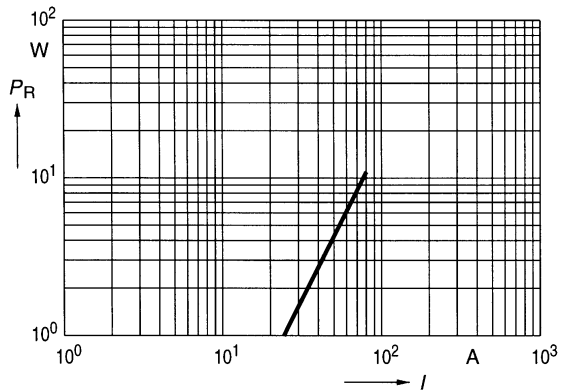
Dielectric power dissipation  $P_D$   
 versus repetition frequency  $f_0$

$\hat{u}_{ac} = 750 \text{ V}$  —————  
 $\hat{u}_{ac} = 675 \text{ V}$  - - - - -



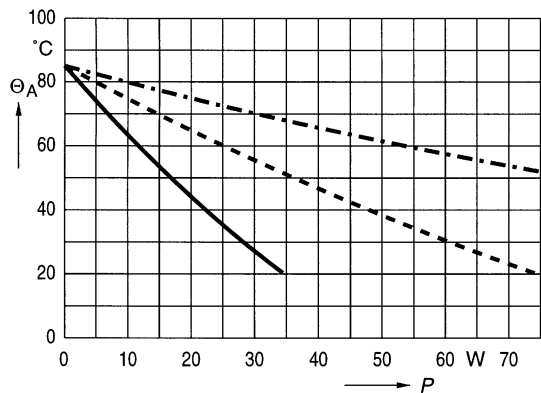
Ohmic power dissipation  $P_R$   
 versus rms current value  $I$

$R_S (85^\circ\text{C}) = 1,7 \text{ m}\Omega$



Permissible ambient temperature  $\Theta_A$   
 versus total power dissipation  $P$   
 (Upright mounting position)

Natural cooling —————  
 Forced cooling 2 m/s - - - - -  
 Permissible capacitor  
 temperature - - - - -





# B 25 834

## Damping, Commutating

0,1  $\mu\text{F}$  / 900 Vac

Ordering code: B25834-F6104-M001

### Characteristics

$C_N$ , tol.	0,1 $\mu\text{F} \pm 20\%$
$U_N$	AC 900 V
$U_i$	AC 780 V
$I_{\text{max}}$	10 A
$L_{\text{self}}$	50 nH
$\tan \delta_0$	$2 \cdot 10^{-4}$
$R_S$	33 m $\Omega$

### Maximum ratings

$\hat{u}$	1100 V
$u_s$	1500 V
$\hat{i}$	50 A
$I_s$	120 A
$(du/dt)_{\text{max}}$	480 V/ $\mu\text{s}$
$(du/dt)_s$	1200 V/ $\mu\text{s}$

### Test data

$U_{TT}$	AC 1150 V, 10 s
$U_{TC}$	AC 2600 V, 10 s
$R_{is}$	$\geq 3000 \text{ M}\Omega$
$\tan \delta$ (50 Hz)	$\leq 3 \cdot 10^{-4}$

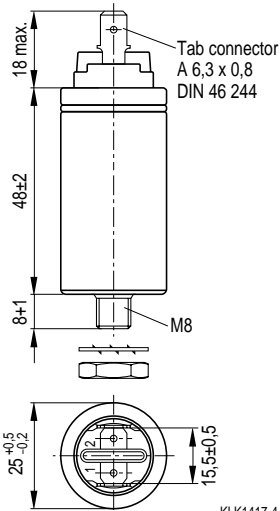
### Climatic data

$\Theta_{\text{min}}$	- 25 °C
$\Theta_{\text{max}}$	+ 85 °C
Humidity	Average relative humidity $\leq 75\%$
$\alpha_{\text{FQ}}(\text{co})$	300/10 <sup>9</sup> h
$t_{\text{LD}}(\text{co})$	100000 h
$\Theta_{\text{stg}}$	- 55 to + 85 °C

### IEC climatic category: 25/085/56

(IEC 68-1 and 2)

$\Theta_{\text{test}}$	+ 40 °C
Rel. humidity	93 %
$t_{\text{test}}$	56 days
$\Delta C/C$	$\leq 1\%$
$\Delta \tan \delta$	$\leq 3 \cdot 10^{-4}$
$R_{is}$	$\geq 1000 \text{ M}\Omega$



KLK1417-4

### Design data

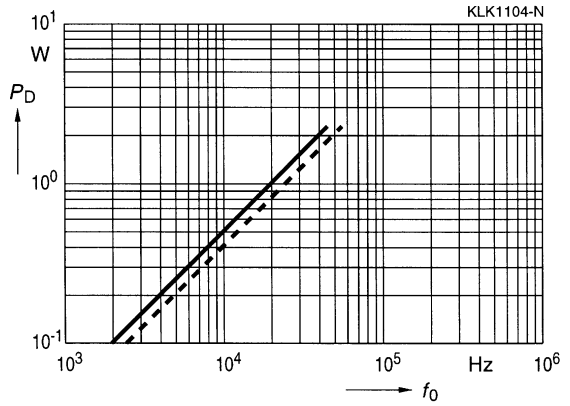
Dimensions $\varnothing \times l$	25 mm $\times$ 48 mm
Approx. weight	30 g
Impregnation	Oil
Fixing	Threaded bolt M8
Mounting hole	9,5 mm
Max. torque	4 Nm
Terminals	Tab connector 6,3 mm
Terminal cross section	1 mm <sup>2</sup>
Creepage distance	9 mm
Clearance	7 mm
Overpressure disconnector	

**Thermal data**

**B25834-F6104-M001**

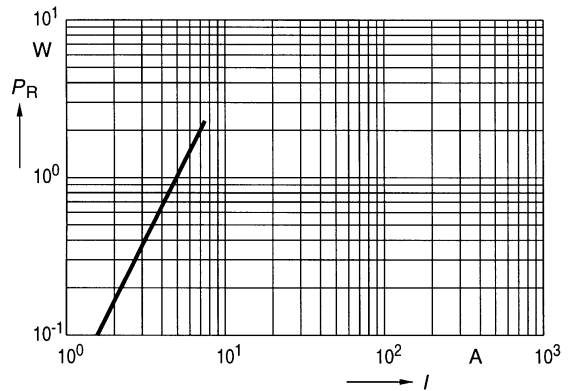
Dielectric power dissipation  $P_D$   
 versus repetition frequency  $f_0$

$\hat{u}_{ac} = 900 \text{ V}$  —————  
 $\hat{u}_{ac} = 810 \text{ V}$  - - - - -



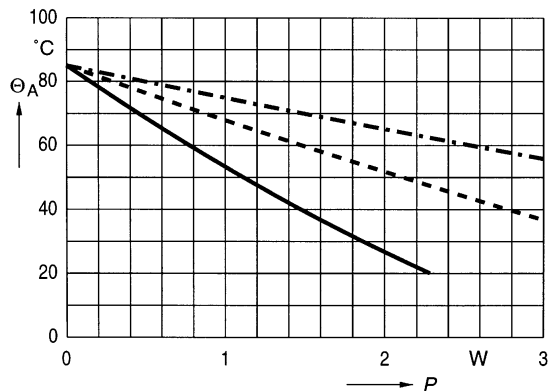
Ohmic power dissipation  $P_R$   
 versus rms current value  $I$

$R_S (85^\circ\text{C}) = 41 \text{ m}\Omega$



Permissible ambient temperature  $\Theta_A$   
 versus total power dissipation  $P$   
 (Upright mounting position)

Natural cooling —————  
 Forced cooling 2 m/s - - - - -  
 Permissible capacitor  
 temperature - - - - -



# B 25 834

## Damping, Commutating

1  $\mu\text{F}$  / 900 Vac

Ordering code: B25834-F6105-K001

### Characteristics

$C_N$ , tol.	1 $\mu\text{F} \pm 20\%$
$U_N$	AC 900 V
$U_i$	AC 780 V
$I_{\text{max}}$	16 A
$L_{\text{self}}$	50 nH
$\tan \delta_0$	$2 \cdot 10^{-4}$
$R_S$	12 m $\Omega$

### Maximum ratings

$\hat{u}$	1100 V
$u_s$	1500 V
$\hat{i}$	300 A
$I_s$	750 A
$(du/dt)_{\text{max}}$	300 V/ $\mu\text{s}$
$(du/dt)_s$	750 V/ $\mu\text{s}$

### Test data

$U_{TT}$	AC 1150 V, 10 s
$U_{TC}$	AC 2600 V, 10 s
$R_{\text{is}}$	$\geq 3000 \text{ M}\Omega$
$\tan \delta$ (50 Hz)	$\leq 3 \cdot 10^{-4}$

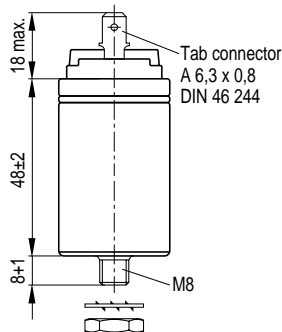
### Climatic data

$\Theta_{\text{min}}$	- 25 °C
$\Theta_{\text{max}}$	+ 85 °C
Humidity	Average relative humidity $\leq 75\%$
$\alpha_{\text{FQ}}(\text{co})$	300/10 <sup>9</sup> h
$t_{\text{LD}}(\text{co})$	100000 h
$\Theta_{\text{stg}}$	- 55 to + 85 °C

### IEC climatic category: 25/085/56

(IEC 68-1 and 2)

$\Theta_{\text{test}}$	+ 40 °C
Rel. humidity	93 %
$t_{\text{test}}$	56 days
$\Delta C/C$	$\leq 1\%$
$\Delta \tan \delta$	$\leq 3 \cdot 10^{-4}$
$R_{\text{is}}$	$\geq 1000 \text{ M}\Omega$



KLK1435-2

### Design data

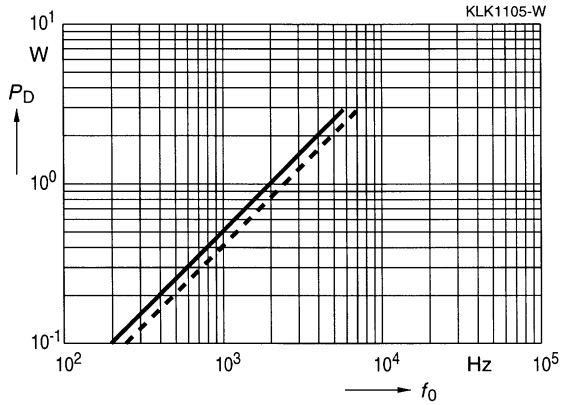
Dimensions $\varnothing \times l$	30 mm $\times$ 48 mm
Approx. weight	50 g
Impregnation	Oil
Fixing	Threaded bolt M8
Mounting hole	9,5 mm
Max. torque	4 Nm
Terminals	Tab connector 6,3 mm
Terminal cross section	1 mm <sup>2</sup>
Creepage distance	9 mm
Clearance	7 mm
Overpressure disconnector	

Thermal data

B25834-F6105-K001

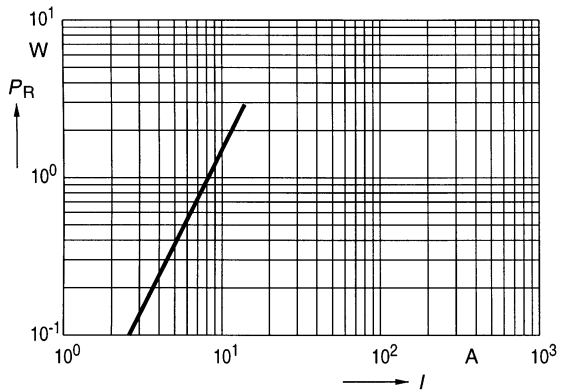
Dielectric power dissipation  $P_D$   
versus repetition frequency  $f_0$

$\hat{u}_{ac} = 900 \text{ V}$  —————  
 $\hat{u}_{ac} = 810 \text{ V}$  - - - - -



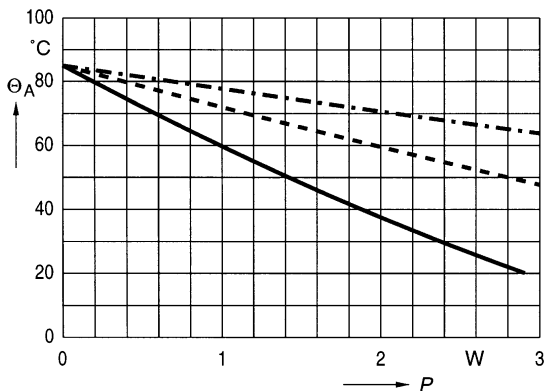
Ohmic power dissipation  $P_R$   
versus rms current value  $I$

$R_S (85^\circ\text{C}) = 15 \text{ m}\Omega$



Permissible ambient temperature  $\Theta_A$   
versus total power dissipation  $P$   
(Upright mounting position)

Natural cooling —————  
Forced cooling 2 m/s - - - - -  
Permissible capacitor  
temperature - - - - -



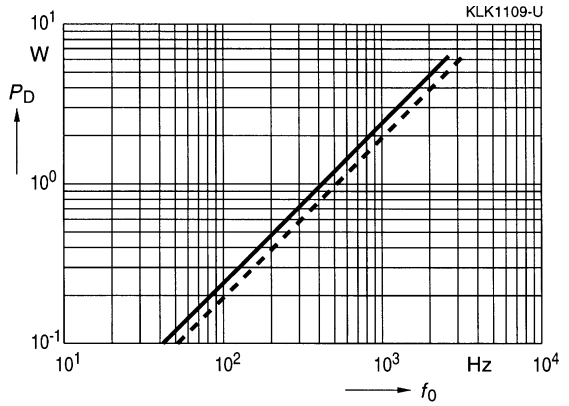


**Thermal data**

**B25834-L6475-K009**

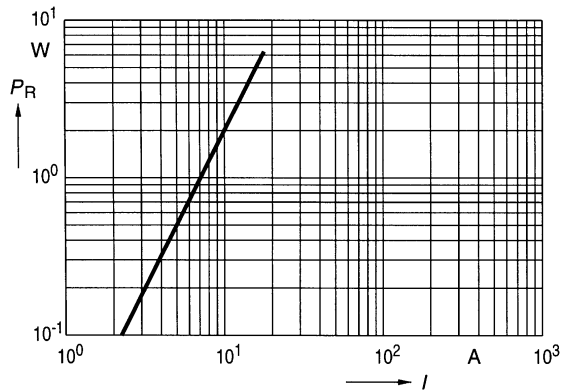
Dielectric power dissipation  $P_D$   
 versus repetition frequency  $f_0$

$\hat{u}_{ac} = 900 \text{ V}$  —————  
 $\hat{u}_{ac} = 810 \text{ V}$  - - - - -



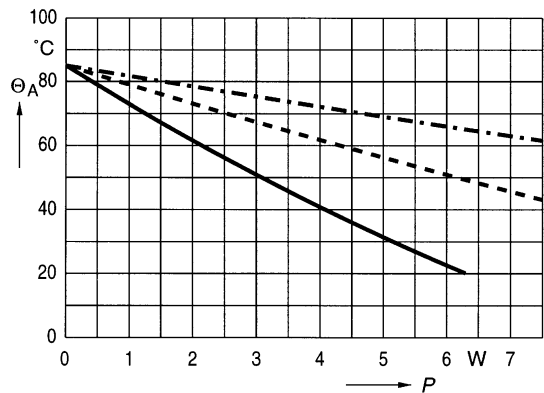
Ohmic power dissipation  $P_R$   
 versus rms current value  $I$

$R_S (85^\circ\text{C}) = 20 \text{ m}\Omega$



Permissible ambient temperature  $\Theta_A$   
 versus total power dissipation  $P$   
 (Upright mounting position)

Natural cooling —————  
 Forced cooling 2 m/s - - - - -  
 Permissible capacitor  
 temperature - - - - -



# B 25 834

## Damping, Commutating

22  $\mu\text{F}$  / 900 Vac

Ordering code: B25834-D6226-K004

### Characteristics

$C_N$ , tol.	22 $\mu\text{F} \pm 10\%$
$U_N$	AC 900 V
$U_i$	AC 780 V
$I_{\text{max}}$	80 A
$L_{\text{self}}$	110 nH
$\tan \delta_0$	$2 \cdot 10^{-4}$
$R_S$	2,2 m $\Omega$

### Maximum ratings

$\hat{u}$	1100 V
$u_s$	1500 V
$\hat{i}$	1,5 kA
$I_s$	3,9 kA
$(du/dt)_{\text{max}}$	70 V/ $\mu\text{s}$
$(du/dt)_s$	175 V/ $\mu\text{s}$

### Test data

$U_{TT}$	AC 1150 V, 10 s
$U_{TC}$	AC 2600 V, 10 s
$R_{is} \cdot C$	$\geq 10000$ s
$\tan \delta$ (50 Hz)	$\leq 3 \cdot 10^{-4}$

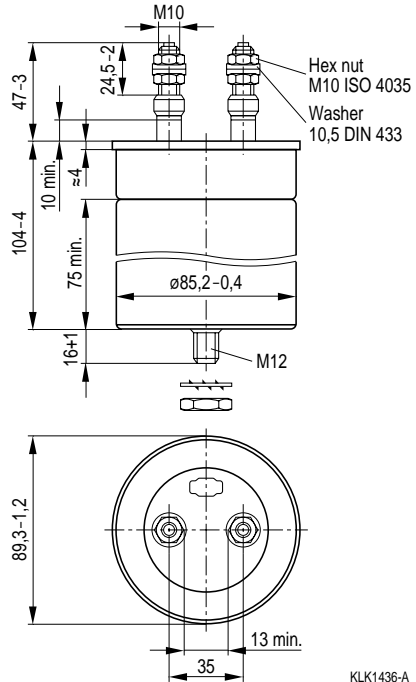
### Climatic data

$\Theta_{\text{min}}$	- 25 °C
$\Theta_{\text{max}}$	+ 85 °C
Humidity	Average relative humidity $\leq 95\%$
$\alpha_{\text{FQ}}(\text{co})$	300/10 <sup>9</sup> h
$t_{\text{LD}}(\text{co})$	100000 h
$\Theta_{\text{stg}}$	- 55 to + 85 °C

### IEC climatic category: 25/085/56

(IEC 68-1 and 2)

$\Theta_{\text{test}}$	+ 40 °C
Rel. humidity	93 %
$t_{\text{test}}$	56 days
$\Delta C/C$	$\leq 1\%$
$\Delta \tan \delta$	$\leq 1 \cdot 10^{-4}$
$R_{is} \cdot C$	$\geq 10000$ s



KLK1436-A

### Design data

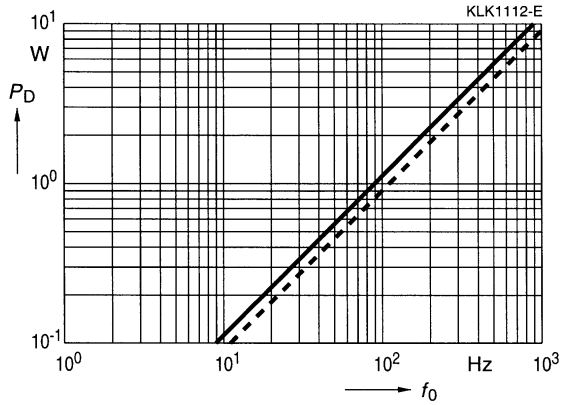
Dimensions $\varnothing \times l$	89,3 mm $\times$ 104 mm
Approx. weight	780 g
Impregnation	Oil
Fixing	Threaded bolt M12
Mounting hole	14 mm
Max. torque	10 Nm
Terminals	Screw terminals M10
Max. torque	7 Nm
Terminal cross section	16 mm <sup>2</sup>
Creepage distance	10 mm
Clearance	10 mm
Overpressure disconnecter	

**Thermal data**

**B25834-D6226-K004**

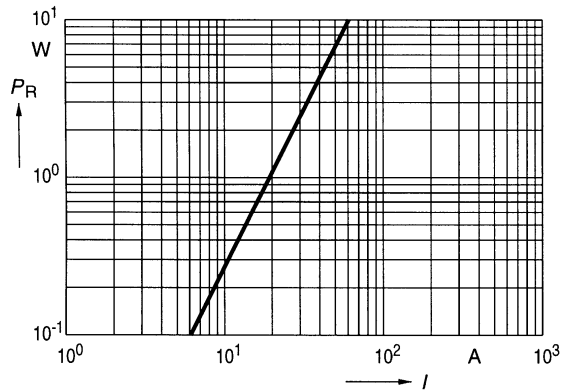
Dielectric power dissipation  $P_D$   
 versus repetition frequency  $f_0$

$\hat{u}_{ac} = 900 \text{ V}$  —————  
 $\hat{u}_{ac} = 810 \text{ V}$  - - - - -



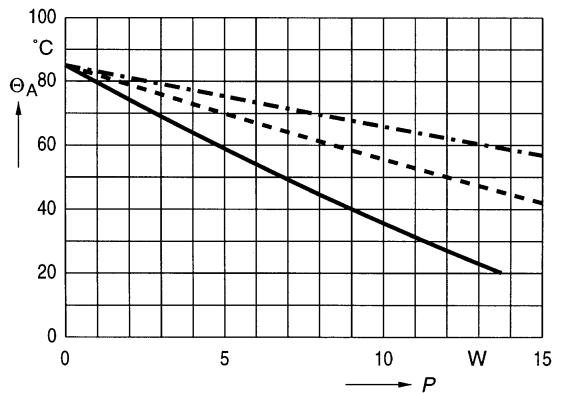
Ohmic power dissipation  $P_R$   
 versus rms current value  $I$

$R_S (85^\circ\text{C}) = 2,7 \text{ m}\Omega$



Permissible ambient temperature  $\Theta_A$   
 versus total power dissipation  $P$   
 (Upright mounting position)

Natural cooling —————  
 Forced cooling 2 m/s - - - - -  
 Permissible capacitor  
 temperature - - - - -





# B 25 834

## Damping, Commutating

33  $\mu$ F / 1100 Vac

Ordering code: B25834-D7336-K004

### Characteristics

$C_N$ , tol.	33 $\mu$ F $\pm$ 10 %
$U_N$	AC 1100 V
$U_i$	AC 990 V
$I_{max}$	80 A
$L_{self}$	150 nH
$\tan \delta_0$	$2 \cdot 10^{-4}$
$R_S$	2,8 m $\Omega$

### Maximum ratings

$\hat{u}$	1400 V
$u_s$	1900 V
$\hat{i}$	2,6 kA
$I_s$	6,6 kA
$(du/dt)_{max}$	80 V/ $\mu$ s
$(du/dt)_s$	200 V/ $\mu$ s

### Test data

$U_{TT}$	AC 1400 V, 10 s
$U_{TC}$	AC 3000 V, 10 s
$R_{is} \cdot C$	$\geq 10000$ s
$\tan \delta$ (50 Hz)	$\leq 3 \cdot 10^{-4}$

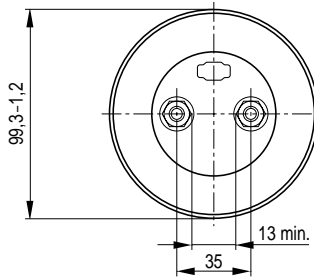
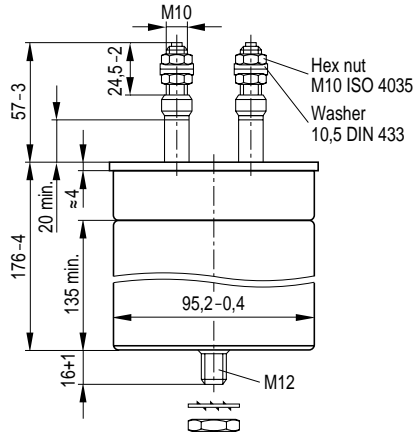
### Climatic data

$\Theta_{min}$	- 25 $^{\circ}$ C
$\Theta_{max}$	+ 85 $^{\circ}$ C
Humidity	Average relative humidity $\leq$ 95 %
$\alpha_{FQ(co)}$	$300/10^9$ h
$t_{LD(co)}$	100000 h
$\Theta_{stg}$	- 55 to + 85 $^{\circ}$ C

### IEC climatic category: 25/085/56

(IEC 68-1 and 2)

$\Theta_{test}$	+ 40 $^{\circ}$ C
Rel. humidity	93 %
$t_{test}$	56 days
$\Delta C/C$	$\leq$ 1 %
$\Delta \tan \delta$	$\leq 1 \cdot 10^{-4}$
$R_{is} \cdot C$	$\geq 10000$ s



KLK1437-I

### Design data

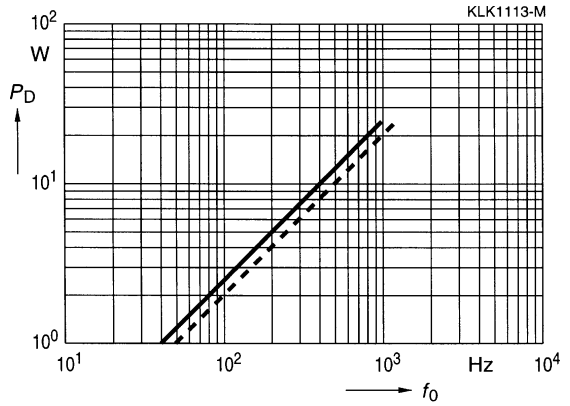
Dimensions $\varnothing \times l$	99,3 mm $\times$ 176 mm
Approx. weight	1600 g
Impregnation	Oil
Fixing	Threaded bolt M12
Mounting hole	14 mm
Max. torque	10 Nm
Terminals	Screw terminals M10
Max. torque	7 Nm
Terminal cross section	16 mm <sup>2</sup>
Creepage distance	20 mm
Clearance	13 mm
Overpressure disconnecter	

**Thermal data**

**B25834-D7336-K004**

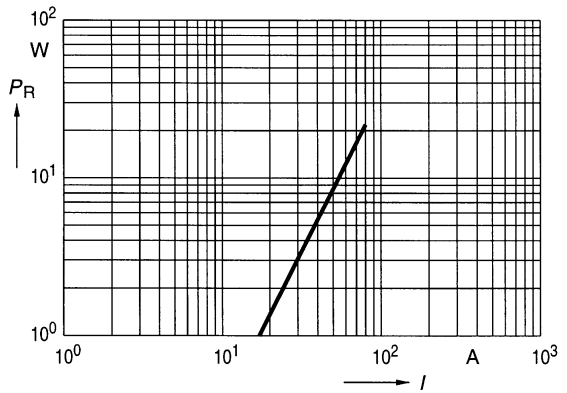
Dielectric power dissipation  $P_D$   
 versus repetition frequency  $f_0$

$\hat{u}_{ac} = 1100 \text{ V}$  —————  
 $\hat{u}_{ac} = 990 \text{ V}$  - - - - -



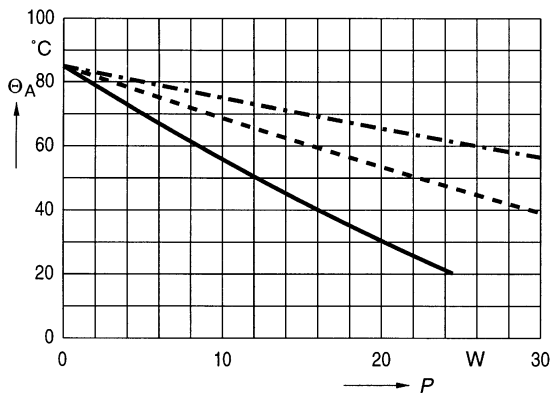
Ohmic power dissipation  $P_R$   
 versus rms current value  $I$

$R_S (85^\circ\text{C}) = 3,4 \text{ m}\Omega$



Permissible ambient temperature  $\Theta_A$   
 versus total power dissipation  $P$   
 (Upright mounting position)

Natural cooling —————  
 Forced cooling 2 m/s - - - - -  
 Permissible capacitor  
 temperature - - - - -



# B 25 834

## Damping, Commutating

10  $\mu\text{F}$  / 1400 Vac

Ordering code: B25834-D0106-K004

### Characteristics

$C_N$ , tol.	10 $\mu\text{F} \pm 10\%$
$U_N$	AC 1400 V
$U_i$	AC 1300 V
$I_{\text{max}}$	80 A
$L_{\text{self}}$	150 nH
$\tan \delta_0$	$2 \cdot 10^{-4}$
$R_S$	5,2 m $\Omega$

### Maximum ratings

$\hat{u}$	1800 V
$u_s$	2400 V
$\hat{i}$	1,0 kA
$I_s$	2,5 kA
$(du/dt)_{\text{max}}$	100 V/ $\mu\text{s}$
$(du/dt)_s$	250 V/ $\mu\text{s}$

### Test data

$U_{TT}$	AC 1800 V, 10 s
$U_{TC}$	AC 3600 V, 10 s
$R_{is} \cdot C$	$\geq 10000$ s
$\tan \delta$ (50 Hz)	$\leq 3 \cdot 10^{-4}$

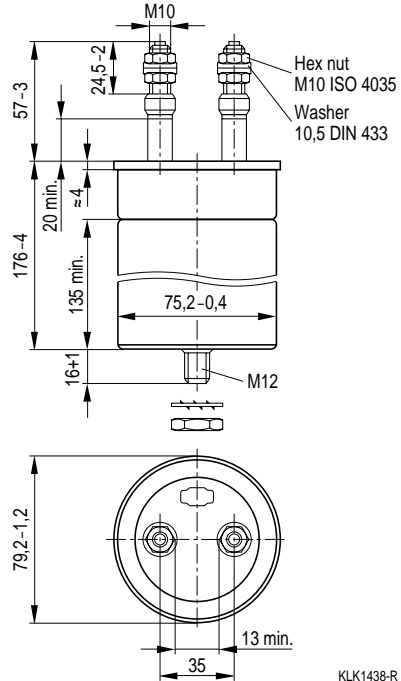
### Climatic data

$\Theta_{\text{min}}$	- 25 °C
$\Theta_{\text{max}}$	+ 85 °C
Humidity	Average relative humidity $\leq 95\%$
$\alpha_{\text{FQ}}(\text{co})$	300/10 <sup>9</sup> h
$t_{\text{LD}}(\text{co})$	100000 h
$\Theta_{\text{stg}}$	- 55 to + 85 °C

### IEC climatic category: 25/085/56

(IEC 68-1 and 2)

$\Theta_{\text{test}}$	+ 40 °C
Rel. humidity	93 %
$t_{\text{test}}$	56 days
$\Delta C/C$	$\leq 1\%$
$\Delta \tan \delta$	$\leq 1 \cdot 10^{-4}$
$R_{is} \cdot C$	$\geq 10000$ s



KLK1438-R

### Design data

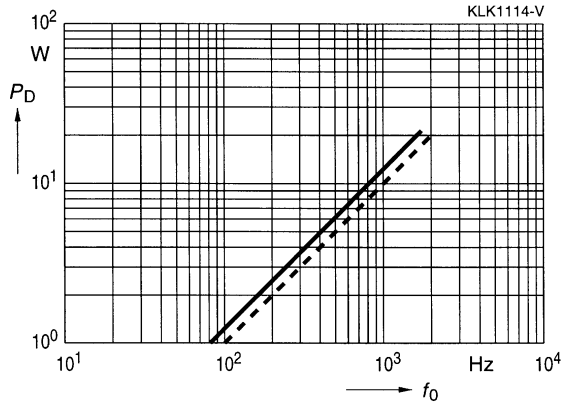
Dimensions $\varnothing \times l$	79,2 mm $\times$ 176 mm
Approx. weight	1000 g
Impregnation	Oil
Fixing	Threaded bolt M12
Mounting hole	14 mm
Max. torque	10 Nm
Terminals	Screw terminals M10
Max. torque	7 Nm
Terminal cross section	16 mm <sup>2</sup>
Creepage distance	20 mm
Clearance	13 mm
Overpressure disconnecter	

**Thermal data**

**B25834-D0106-K004**

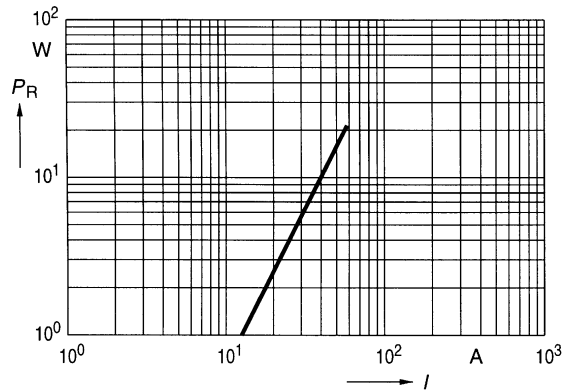
Dielectric power dissipation  $P_D$   
 versus repetition frequency  $f_0$

$\hat{u}_{ac} = 1400 \text{ V}$  —————  
 $\hat{u}_{ac} = 1260 \text{ V}$  - - - - -



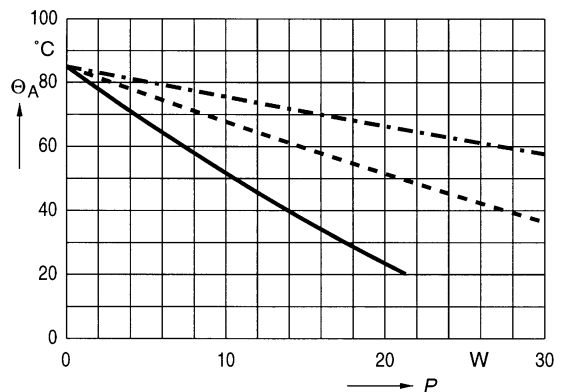
Ohmic power dissipation  $P_R$   
 versus rms current value  $I$

$R_S (85^\circ\text{C}) = 6,3 \text{ m}\Omega$



Permissible ambient temperature  $\Theta_A$   
 versus total power dissipation  $P$   
 (Upright mounting position)

Natural cooling —————  
 Forced cooling 2 m/s - - - - -  
 Permissible capacitor  
 temperature - - - - -



# B 25 834

## Damping, Commutating

22  $\mu\text{F}$  / 1700 Vac

Ordering code: B25834-D1226-K004

### Characteristics

$C_N$ , tol.	22 $\mu\text{F} \pm 10\%$
$U_N$	AC 1700 V
$U_i$	AC 1500 V
$I_{\text{max}}$	80 A
$L_{\text{self}}$	220 nH
$\tan \delta_0$	$2 \cdot 10^{-4}$
$R_S$	3,9 m $\Omega$

### Maximum ratings

$\hat{u}$	2100 V
$u_s$	2900 V
$\hat{i}$	2,6 kA
$I_s$	6,6 kA
$(du/dt)_{\text{max}}$	120 V/ $\mu\text{s}$
$(du/dt)_s$	300 V/ $\mu\text{s}$

### Test data

$U_{TT}$	AC 2100 V, 10 s
$U_{TC}$	AC 4000 V, 10 s
$R_{is} \cdot C$	$\geq 10000$ s
$\tan \delta$ (50 Hz)	$\leq 3 \cdot 10^{-4}$

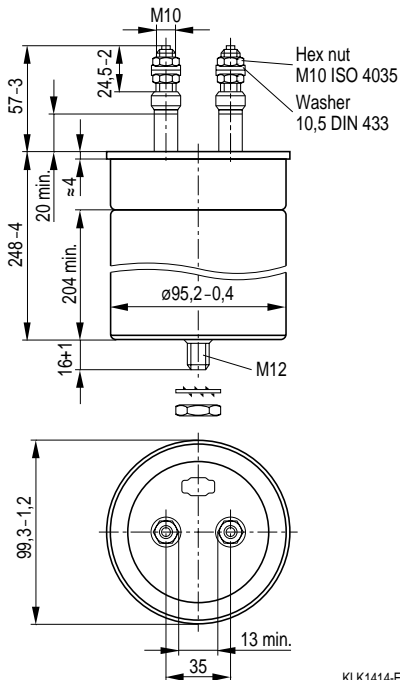
### Climatic data

$\Theta_{\text{min}}$	- 25 °C
$\Theta_{\text{max}}$	+ 85 °C
Humidity	Average relative humidity $\leq 95\%$
$\alpha_{\text{FQ}}(\text{co})$	300/10 <sup>9</sup> h
$t_{\text{LD}}(\text{co})$	100000 h
$\Theta_{\text{stg}}$	- 55 to + 85 °C

### IEC climatic category: 25/085/56

(IEC 68-1 and 2)

$\Theta_{\text{test}}$	+ 40 °C
Rel. humidity	93 %
$t_{\text{test}}$	56 days
$\Delta C/C$	$\leq 1\%$
$\Delta \tan \delta$	$\leq 1 \cdot 10^{-4}$
$R_{is} \cdot C$	$\geq 10000$ s



KLK1414-E

### Design data

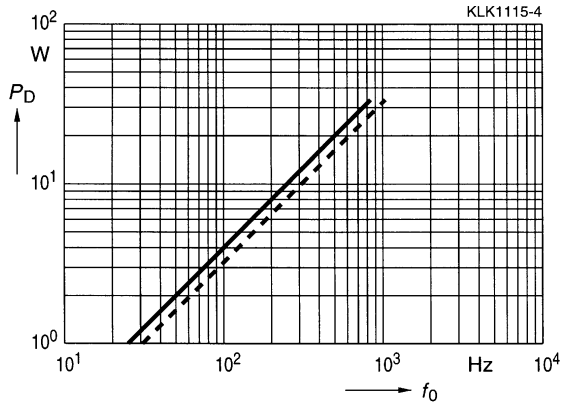
Dimensions $\varnothing \times l$	99,3 mm $\times$ 248 mm
Approx. weight	2300 g
Impregnation	Oil
Fixing	Threaded bolt M12
Mounting hole	14 mm
Max. torque	10 Nm
Terminals	Screw terminals M10
Max. torque	7 Nm
Terminal cross section	16 mm <sup>2</sup>
Creepage distance	20 mm
Clearance	13 mm
Overpressure disconnecter	

**Thermal data**

**B25834-D1226-K004**

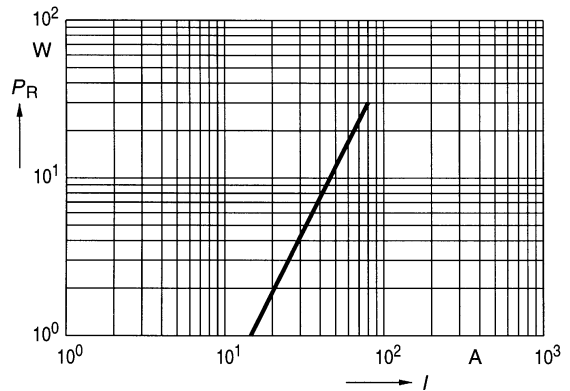
Dielectric power dissipation  $P_D$   
 versus repetition frequency  $f_0$

$\hat{u}_{ac} = 1700 \text{ V}$  —————  
 $\hat{u}_{ac} = 1530 \text{ V}$  - - - - -



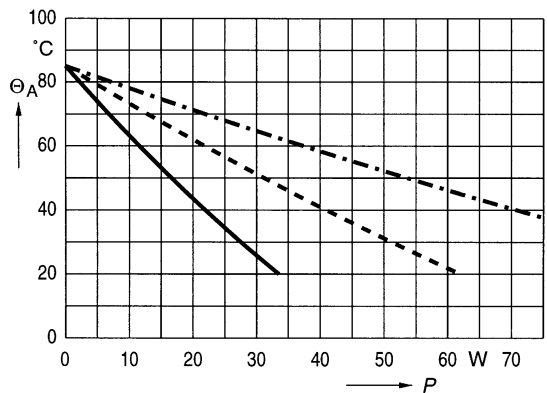
Ohmic power dissipation  $P_R$   
 versus rms current value  $I$

$R_S (85^\circ\text{C}) = 4,7 \text{ m}\Omega$



Permissible ambient temperature  $\Theta_A$   
 versus total power dissipation  $P$   
 (Upright mounting position)

Natural cooling —————  
 Forced cooling 2 m/s - - - - -  
 Permissible capacitor  
 temperature - - - - -



# B 25 834

## Damping, Commutating

10  $\mu$ F / 2100 Vac

Ordering code: B25834-D2106-K004

### Characteristics

$C_N$ , tol.	10 $\mu$ F $\pm$ 10 %
$U_N$	AC 2100 V
$U_i$	AC 1900 V
$I_{max}$	80 A
$L_{self}$	220 nH
$\tan \delta_0$	$2 \cdot 10^{-4}$
$R_S$	5,4 m $\Omega$

### Maximum ratings

$\hat{u}$	2600 V
$u_s$	3600 V
$\hat{i}$	1,6 kA
$I_s$	4,0 kA
$(du/dt)_{max}$	160 V/ $\mu$ s
$(du/dt)_s$	400 V/ $\mu$ s

### Test data

$U_{TT}$	AC 2600 V, 10 s
$U_{TC}$	AC 4800 V, 10 s
$R_{is} \cdot C$	$\geq 10000$ s
$\tan \delta$ (50 Hz)	$\leq 3 \cdot 10^{-4}$

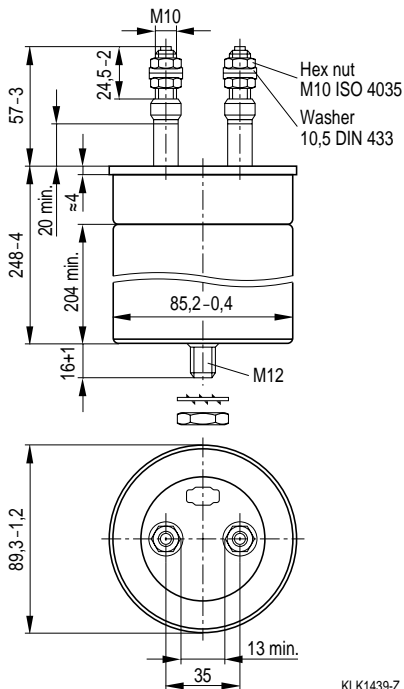
### Climatic data

$\Theta_{min}$	- 25 °C
$\Theta_{max}$	+ 85 °C
Humidity	Average relative humidity $\leq$ 95 %
$\alpha_{FQ(co)}$	300/10 <sup>9</sup> h
$t_{LD(co)}$	100000 h
$\Theta_{stg}$	- 55 to + 85 °C

### IEC climatic category: 25/085/56

(IEC 68-1 and 2)

$\Theta_{test}$	+ 40 °C
Rel. humidity	93 %
$t_{test}$	56 days
$\Delta C/C$	$\leq 1$ %
$\Delta \tan \delta$	$\leq 1 \cdot 10^{-4}$
$R_{is} \cdot C$	$\geq 10000$ s



### Design data

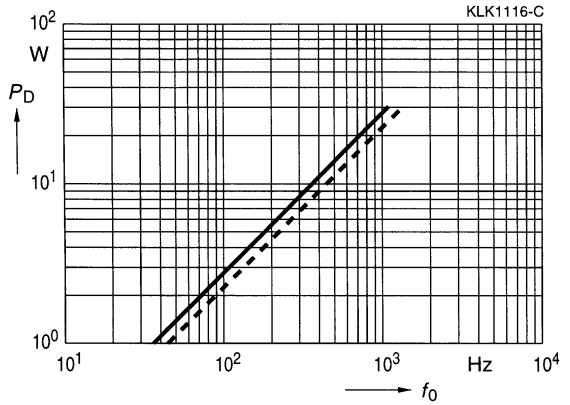
Dimensions $\varnothing \times l$	89,3 mm $\times$ 248 mm
Approx. weight	1900 g
Impregnation	Oil
Fixing	Threaded bolt M12
Mounting hole	14 mm
Max. torque	10 Nm
Terminals	Screw terminals M10
Max. torque	7 Nm
Terminal cross section	16 mm <sup>2</sup>
Creepage distance	20 mm
Clearance	13 mm
Overpressure disconnecter	

**Thermal data**

**B25834-D2106-K004**

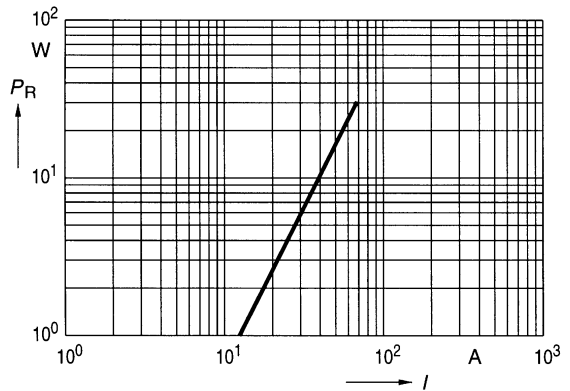
Dielectric power dissipation  $P_D$   
 versus repetition frequency  $f_0$

$\hat{u}_{ac} = 2100 \text{ V}$  —————  
 $\hat{u}_{ac} = 1890 \text{ V}$  - - - - -



Ohmic power dissipation  $P_R$   
 versus rms current value  $I$

$R_S (85^\circ\text{C}) = 6,5 \text{ m}\Omega$



Permissible ambient temperature  $\Theta_A$   
 versus total power dissipation  $P$   
 (Upright mounting position)

Natural cooling —————  
 Forced cooling 2 m/s - - - - -  
 Permissible capacitor  
 temperature - - - - -

