

**Compact design**  
**Long-term stability and reliability**  
**For commutation in the low-frequency range**

**Construction**

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

**Terminals**

- Tab connectors 6,3 mm
- Dual tab connectors 6,3 mm

**Mounting parts**

- If the vibration stress is  $\leq 5 g$  and the capacitors are  $\leq 60$  mm in diameter, the bolt is used for mounting.
- In case of a vibration stress  $> 5 g$  as well as for larger-sized capacitors refer to 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 in the length. 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 118 ... 127](#). 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		≤ 75 %	
Failure quota	$\alpha_{FQ(co)}$	1000 failures per $10^9$ component hours	
Load duration	$t_{LD(co)}$	30 000 h	
Storage temperature limit	$\Theta_{stg}$	- 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 %	
		$C_N$	Dual tab connector 6,3 Tab connector 6,3
Insulation resistance	$R_{is}$	≤ 1 μF	≥ 3000 MΩ
Self-discharge time constant $\tau =$	$R_{is} \cdot C$	> 1 μF	≥ 3000 s
Dissipation factor change	$\Delta \tan \delta$	≤ $3 \cdot 10^{-4}$	
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	
Insulation resistance	$R_{is}$	≤ 1 μF: ≥ 3000 MΩ	
Self-discharge time constant $\tau =$	$R_{is} \cdot C$	> 1 μF: ≥ 3000 s	
Dissipation factor	$\tan \delta$	≤ $3 \cdot 10^{-4}$	

# B 25 832

## General AC Applications

### Available ratings

$U_N$ (V)	AC	640	930	
$C_N$ ( $\mu$ F)				
1,0				
1,5				
1,6				
2,0				
2,2				
2,5				
3,0				
3,3				
4,0				
4,7				
5,0				
5,5				
6,0				
6,8				
7,0				
8,0				
10				
12				
14				
15				
16				
18				
20				
22				
25				
30				
33				
40				
47				
50				

 Data book range

 Upon request

**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 640 V</math></b>			<b><math>U_l = AC 570 V</math></b>			<b><math>\hat{u} = 800 V</math></b>		<b><math>U_{TT} = AC 800 V, 10 s</math></b>		
						<b><math>u_s = 1100 V</math></b>		<b><math>U_{TC} = AC 2200 V, 10 s</math></b>		
1,0	10	40	100	24,0	50	25 × 48	3	30	B25832-F4105-K001	118
1,5	10	25	60	54,0	90	25 × 80	3	50	B25832-F4155-K001	
1,6	16	60	160	16,0	50	30 × 48	4	50	B25832-F4165-K001	
2,0	16	80	200	13,0	50	30 × 48	4	50	B25832-F4205-K001	
2,2	10	35	90	39,0	90	25 × 80	3	50	B25832-F4225-K001	
2,5	16	100	250	12,0	50	35 × 48	5	60	B25832-F4255-K001	
3,0	10	50	120	30,0	90	25 × 80	3	50	B25832-F4305-K001	
3,0	16	120	300	11,0	50	35 × 48	5	60	B25832-F4305-K011	
3,3	10	50	130	28,0	90	25 × 80	3	50	B25832-F4335-K001	
4,0	16	60	160	24,0	90	30 × 80	4	70	B25832-F4405-K001	
4,7	16	75	190	21,0	90	30 × 80	4	70	B25832-F4475-K001	
5,0	16	80	200	20,0	90	30 × 80	4	70	B25832-F4505-K001	
6,0	18	240	600	5,6	70	45 × 57	1	110	B25832-C4605-K009	120
6,8	16	110	270	17,0	90	35 × 80	5	100	B25832-F4685-K001	
7,0	16	110	280	16,0	90	35 × 80	5	100	B25832-F4705-K001	
8,0	18	130	320	12,0	90	40 × 86	1	130	B25832-C4805-K009	
10	18	160	400	10,0	90	40 × 86	1	130	B25832-C4106-K009	
12	18	190	480	9,4	90	45 × 86	1	160	B25832-C4126-K009	
14	18	220	560	8,6	90	50 × 86	1	200	B25832-C4146-K009	
15	18	240	600	8,1	90	50 × 86	1	200	B25832-C4156-K009	
16	18	260	640	7,8	90	50 × 86	1	200	B25832-C4166-K009	
20	18	320	800	7,0	90	55 × 86	1	250	B25832-C4206-K009	
22	18	350	880	6,7	90	60 × 86	1	300	B25832-C4226-K009	
25	18	400	1000	6,2	90	60 × 86	1	300	B25832-C4256-K009	
30	18	480	1200	6,8	140	50 × 156	1	370	B25832-C4306-K009	
33	18	530	1300	6,6	140	50 × 156	1	370	B25832-C4336-K009	
40	18	640	1600	6,2	140	55 × 156	1	450	B25832-C4406-K009	
47	18	750	1900	6,1	140	60 × 156	1	550	B25832-C4476-K009	122
50	18	800	2000	5,9	140	60 × 156	1	550	B25832-C4506-K009	

1) Capacitance tolerance  $\pm 10 \%$

## B 25 832

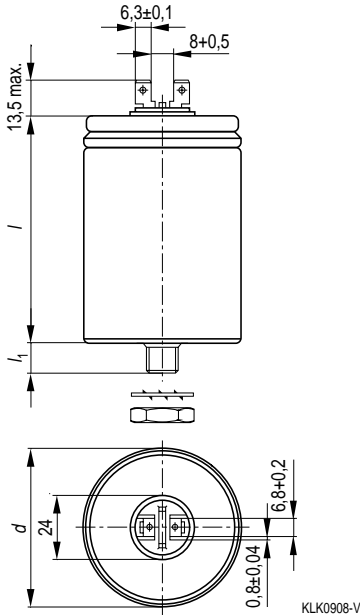
### General AC Applications

#### 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 } 930 \text{ V}</math></b>			<b><math>U_l = \text{AC } 850 \text{ V}</math></b>			<b><math>\hat{u} = 1200 \text{ V}</math></b>		<b><math>U_{\text{TT}} = \text{AC } 1200 \text{ V}, 10 \text{ s}</math></b>		
						<b><math>u_s = 1600 \text{ V}</math></b>		<b><math>U_{\text{TC}} = \text{AC } 2700 \text{ V}, 10 \text{ s}</math></b>		
1,5	10	45	110	33,0	90	30 × 80	4	70	B25832-F6155-K001	124
2,0	10	60	150	26,0	90	30 × 80	4	70	B25832-F6205-K001	
2,5	16	75	190	22,0	90	35 × 80	5	100	B25832-F6255-K001	
3,0	18	90	230	17,0	90	40 × 86	1	130	B25832-C6305-K009	126
4,0	18	120	300	14,0	90	40 × 86	1	130	B25832-C6405-K009	
5,0	18	150	380	12,0	90	45 × 86	1	160	B25832-C6505-K009	
5,5	18	170	410	11,0	90	45 × 86	1	160	B25832-C6555-K009	
6,0	18	180	450	10,0	90	50 × 86	1	200	B25832-C6605-K009	
7,0	18	210	530	9,2	90	50 × 86	1	200	B25832-C6705-K009	
8,0	18	240	600	8,5	90	55 × 86	1	250	B25832-C6805-K009	
10	18	300	750	7,5	90	60 × 86	1	300	B25832-C6106-K009	
12	18	360	900	6,7	90	60 × 86	1	300	B25832-C6126-K009	
15	18	450	1100	7,0	110	79,2 × 104	2	600	B25832-C6156-K009	
18	18	540	1400	6,5	110	79,2 × 104	2	600	B25832-C6186-K009	
20	18	600	1500	6,3	110	89,3 × 104	2	800	B25832-C6206-K009	
22	18	660	1700	6,2	110	89,3 × 104	2	800	B25832-C6226-K009	

1) Capacitance tolerance  $\pm 10 \%$

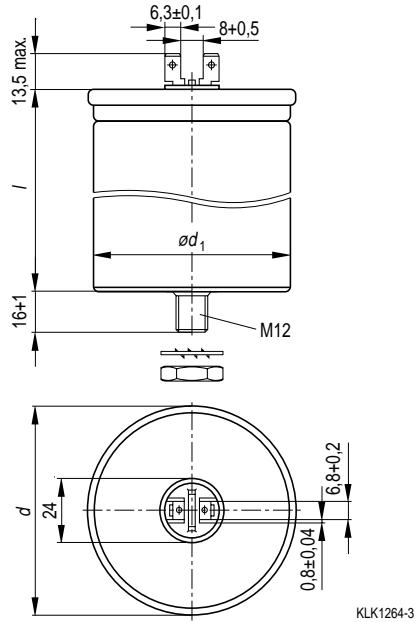
**Dimensional drawing 1**  
 Dual tab connectors 6,3 mm



Dimensions in mm

$d^{+0,5}_{-0,2}$	$l^{+1}_2$	$l_1+1^*$	Creepage distance	Clearance
40	86	8	7	5
45	57	8		
45	86	8		
50	86	12		
50	156	12		
55	86	12		
55	156	12		
60	86	12		
60	156	12		

**Dimensional drawing 2**  
 Dual tab connectors 6,3 mm



Dimensions in mm

$d-1,2$	$l-4$	$\varnothing d_1-0,4$	Creepage distance	Clearance
79,2	104	75,2	7	5
89,3	104	85,2		

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

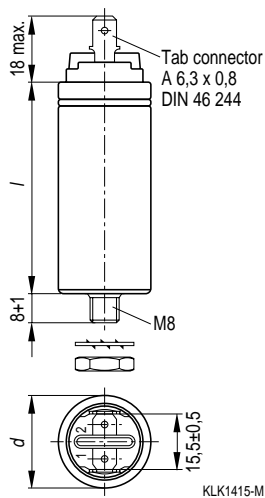
**Mounting parts** (included in delivery)

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 25 832 General AC Applications

### Dimensional drawing 3

Tab connectors 6,3 mm

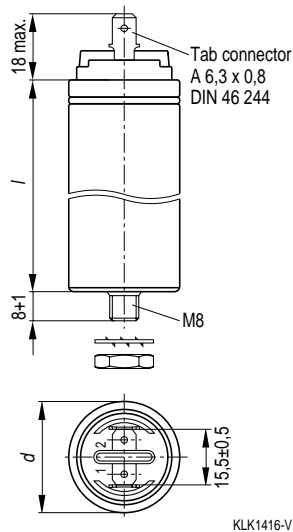


Dimensions in mm

$d^{+0,5}_{-0,2}$	$l \pm 2$	Creepage distance	Clearance
25	48	9	7
25	80		

### Dimensional drawing 4

Tab connectors 6,3 mm



Dimensions in mm

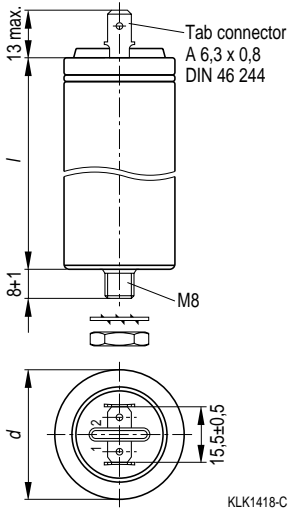
$d^{+0,5}_{-0,2}$	$l \pm 2$	Creepage distance	Clearance
30	48	9	7
30	80		

### Mounting parts (included in delivery)

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

**Dimensional drawing 5**

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	M8 ISO 4035



# B 25 832

## General AC Applications

1  $\mu\text{F}$  / 640 Vac

Ordering code: B25832-F4105-K001

### Characteristics

$C_N$ , tol.	1 $\mu\text{F} \pm 10\%$
$U_N$	AC 640 V
$U_i$	AC 570 V
$I_{\text{max}}$	10 A
$L_{\text{self}}$	50 nH
$\tan \delta_0$	$2 \cdot 10^{-4}$
$R_S$	24 m $\Omega$

### Maximum ratings

$\hat{u}$	800 V
$u_s$	1100 V
$\hat{i}$	40 A
$I_s$	100 A
$(du/dt)_{\text{max}}$	40 V/ $\mu\text{s}$
$(du/dt)_s$	100 V/ $\mu\text{s}$

### Test data

$U_{TT}$	AC 800 V, 10 s
$U_{TC}$	AC 2200 V, 10 s
$R_{is}$	$\geq 3000 \text{ M}\Omega$
$\tan \delta$ (50 Hz)	$\leq 3 \cdot 10^{-4}$

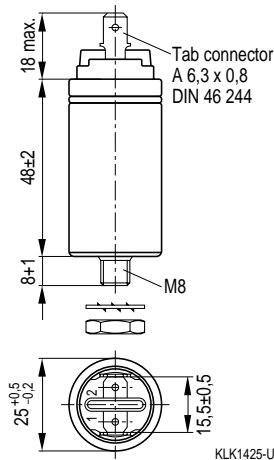
### Climatic data

$\Theta_{\text{min}}$	- 25 °C
$\Theta_{\text{max}}$	+ 85 °C
Humidity	Average relative humidity $\leq 75\%$
$\alpha_{FQ(\text{co})}$	1000/10 <sup>9</sup> h
$t_{LD(\text{co})}$	30000 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
$\Delta C/C$	$\leq 1\%$
$\Delta \tan \delta$	$\leq 3 \cdot 10^{-4}$
$R_{is}$	$\geq 1000 \text{ M}\Omega$



### Design data

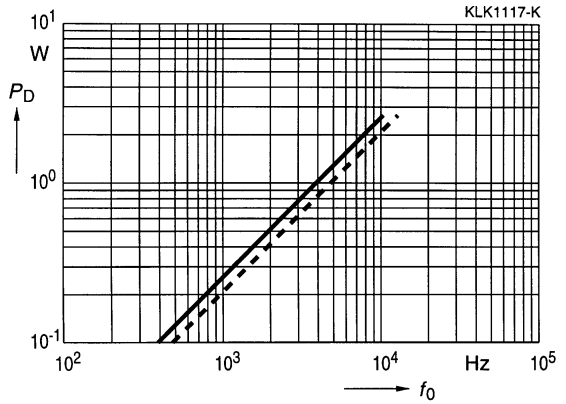
Dimensions $\varnothing \times l$	25 mm $\times$ 48 mm
Approx. weight	30 g
Impregnation	Oil
Fixing	Threaded bolt M8
Mounting hole	9,5 mm
Max. torque	4 Nm
Terminals	Tab connector 6,3 mm
Terminal cross section	1 mm <sup>2</sup>
Creepage distance	9 mm
Clearance	7 mm
Overpressure disconnector	

Thermal data

B25832-F4105-K001

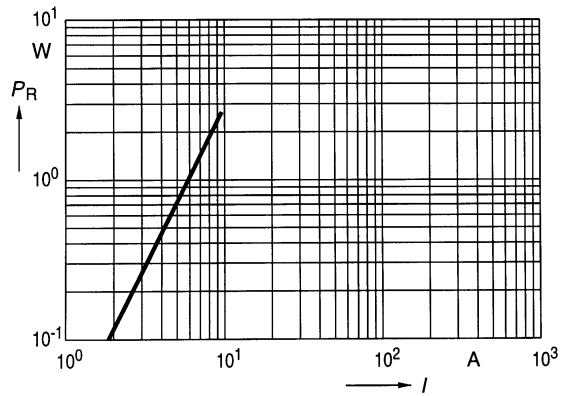
Dielectric power dissipation  $P_D$   
versus repetition frequency  $f_0$

$\hat{u}_{ac} = 640 \text{ V}$  —————  
 $\hat{u}_{ac} = 576 \text{ V}$  - - - - -



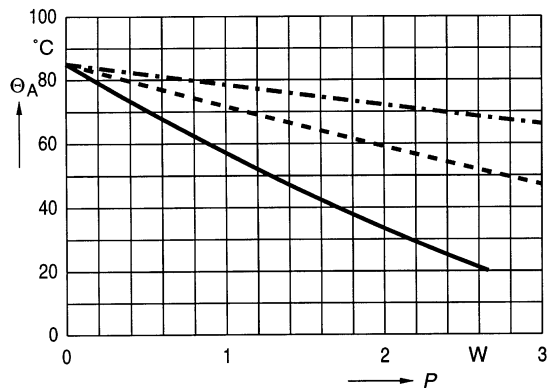
Ohmic power dissipation  $P_R$   
versus rms current value  $I$

$R_S (85 \text{ }^\circ\text{C}) = 29 \text{ m}\Omega$



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

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



# B 25 832

## General AC Applications

6,8  $\mu\text{F}$  / 640 Vac

Ordering code: B25832-F4685-K001

### Characteristics

$C_N$ , tol.	6,8 $\mu\text{F}$ $\pm$ 10 %
$U_N$	AC 640 V
$U_i$	AC 570 V
$I_{\text{max}}$	16 A
$L_{\text{self}}$	90 nH
$\tan \delta_0$	$2 \cdot 10^{-4}$
$R_S$	17 m $\Omega$

### Maximum ratings

$\hat{u}$	800 V
$u_s$	1100 V
$\hat{i}$	110 A
$I_s$	270 A
$(du/dt)_{\text{max}}$	16 V/ $\mu\text{s}$
$(du/dt)_s$	40 V/ $\mu\text{s}$

### Test data

$U_{TT}$	AC 800 V, 10 s
$U_{TC}$	AC 2200 V, 10 s
$R_{is} \cdot C$	$\geq 3000$ s
$\tan \delta$ (50 Hz)	$\leq 3 \cdot 10^{-4}$

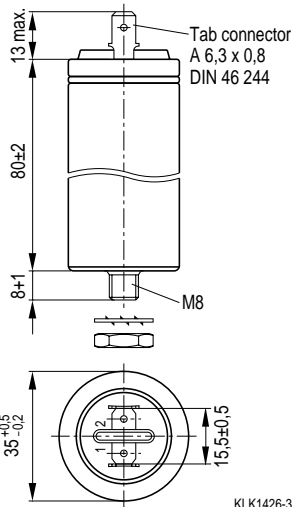
### Climatic data

$\Theta_{\text{min}}$	- 25 $^{\circ}\text{C}$
$\Theta_{\text{max}}$	+ 85 $^{\circ}\text{C}$
Humidity	Average relative humidity $\leq 75$ %
$\alpha_{\text{FQ}}(\text{co})$	$1000/10^9$ h
$t_{\text{LD}}(\text{co})$	30000 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

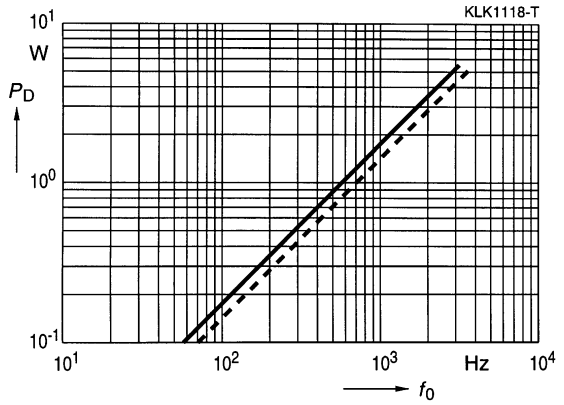
Dimensions $\varnothing \times l$	35 mm $\times$ 80 mm
Approx. weight	100 g
Impregnation	Oil
Fixing	Threaded bolt M8
Mounting hole	9,5 mm
Max. torque	4 Nm
Terminals	Tab connector 6,3 mm
Terminal cross section	1 mm <sup>2</sup>
Creepage distance	6 mm
Clearance	6 mm
Overpressure disconnecter	

**Thermal data**

**B25832-F4685-K001**

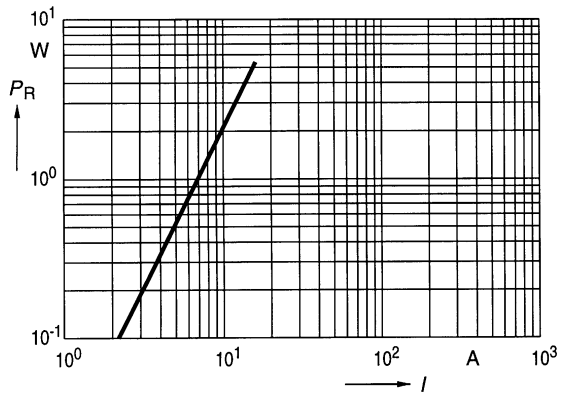
Dielectric power dissipation  $P_D$   
 versus repetition frequency  $f_0$

$\hat{u}_{ac} = 640 \text{ V}$  —————  
 $\hat{u}_{ac} = 576 \text{ V}$  - - - - -



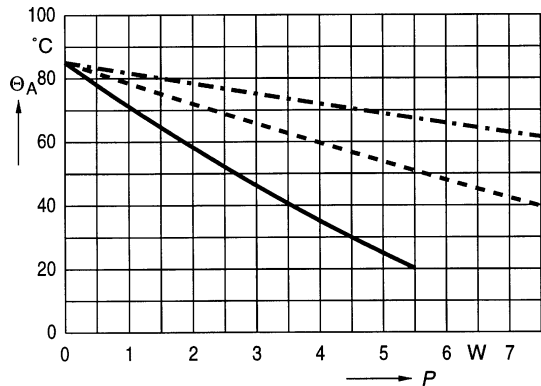
Ohmic power dissipation  $P_R$   
 versus rms current value  $I$

$R_S (85 \text{ }^\circ\text{C}) = 21 \text{ m}\Omega$



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

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



# B 25 832

## General AC Applications

47  $\mu$ F / 640 Vac

Ordering code: B25832-C4476-K009

### Characteristics

$C_N$ , tol.	47 $\mu$ F $\pm$ 10 %
$U_N$	AC 640 V
$U_i$	AC 570 V
$I_{max}$	18 A
$L_{self}$	140 nH
$\tan \delta_0$	$2 \cdot 10^{-4}$
$R_S$	6,1 m $\Omega$

### Maximum ratings

$\hat{u}$	800 V
$u_s$	1100 V
$\hat{i}$	750 A
$I_s$	1900 A
$(du/dt)_{max}$	16 V/ $\mu$ s
$(du/dt)_s$	40 V/ $\mu$ s

### Test data

$U_{TT}$	AC 800 V, 10 s
$U_{TC}$	AC 2200 V, 10 s
$R_{is} \cdot C$	$\geq 3000$ s
$\tan \delta$ (50 Hz)	$\leq 3 \cdot 10^{-4}$

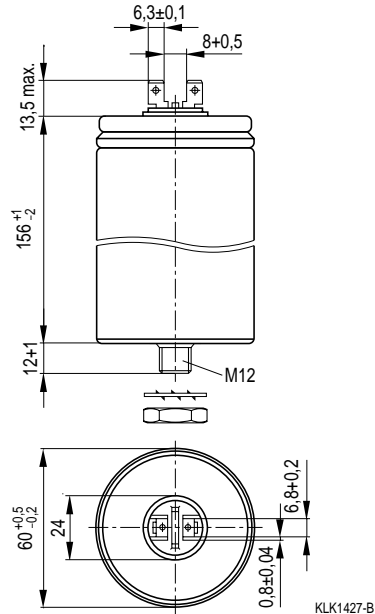
### Climatic data

$\Theta_{min}$	- 25 °C
$\Theta_{max}$	+ 85 °C
Humidity	Average relative humidity $\leq$ 75 %
$\alpha_{FQ(co)}$	$1000/10^9$ h
$t_{LD(co)}$	30000 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

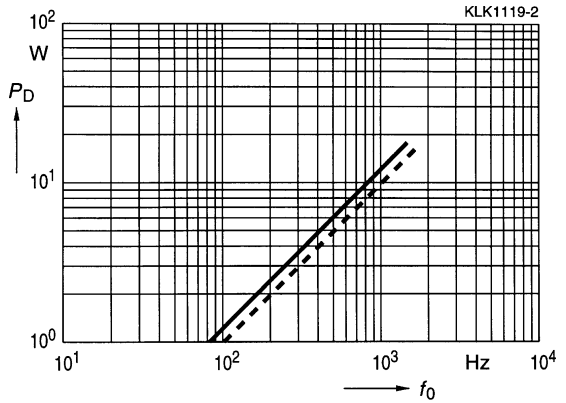
Dimensions $\varnothing \times l$	60 mm $\times$ 156 mm
Approx. weight	550 g
Impregnation	Oil
Fixing	Threaded bolt M12
Mounting hole	14 mm
Max. torque	10 Nm
Terminals	Dual tab connector 6,3 mm
Terminal cross section	1,5 mm <sup>2</sup>
Creepage distance	7 mm
Clearance	5 mm
Overpressure disconnector	

**Thermal data**

**B25832-C4476-K009**

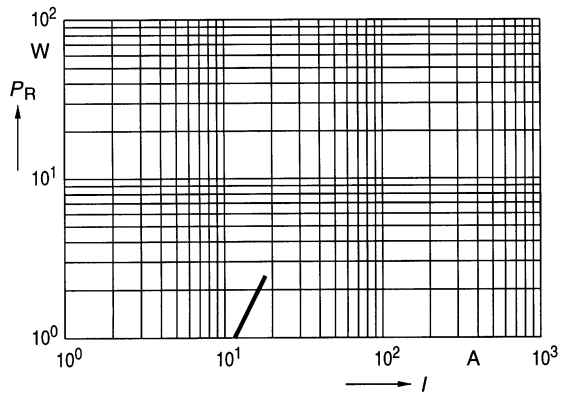
Dielectric power dissipation  $P_D$   
 versus repetition frequency  $f_0$

$\hat{u}_{ac} = 640 \text{ V}$  —————  
 $\hat{u}_{ac} = 576 \text{ V}$  - - - - -



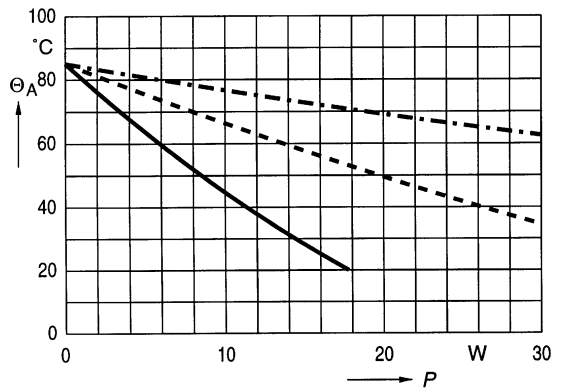
Ohmic power dissipation  $P_R$   
 versus rms current value  $I$

$R_S (85^\circ\text{C}) = 7,5 \text{ m}\Omega$



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

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



# B 25 832

## General AC Applications

2  $\mu\text{F}$  / 930 Vac

Ordering code: B25832-F6205-K001

### Characteristics

$C_N$ , tol.	2 $\mu\text{F} \pm 10\%$
$U_N$	AC 930 V
$U_i$	AC 850 V
$I_{\text{max}}$	10 A
$L_{\text{self}}$	90 nH
$\tan \delta_0$	$2 \cdot 10^{-4}$
$R_S$	26 m $\Omega$

### Maximum ratings

$\hat{u}$	1200 V
$u_s$	1600 V
$\hat{i}$	60 A
$I_s$	150 A
$(du/dt)_{\text{max}}$	30 V/ $\mu\text{s}$
$(du/dt)_s$	75 V/ $\mu\text{s}$

### Test data

$U_{TT}$	AC 1200 V, 10 s
$U_{TC}$	AC 2700 V, 10 s
$R_{is} \cdot C$	$\geq 3000$ s
$\tan \delta$ (50 Hz)	$\leq 3 \cdot 10^{-4}$

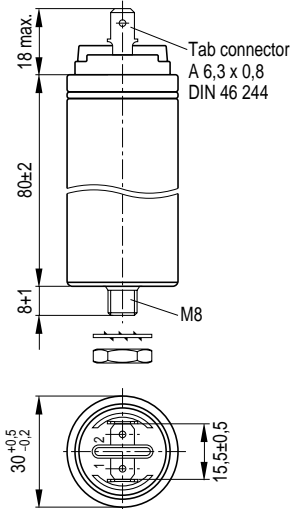
### Climatic data

$\Theta_{\text{min}}$	- 25 °C
$\Theta_{\text{max}}$	+ 85 °C
Humidity	Average relative humidity $\leq 75\%$
$\alpha_{\text{FQ}}(\text{co})$	1000/10 <sup>9</sup> h
$t_{\text{LD}}(\text{co})$	30000 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

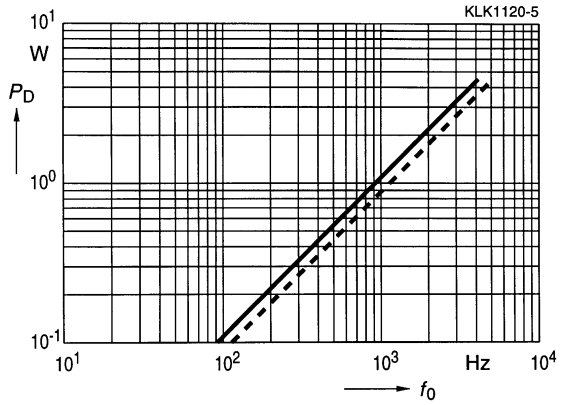
Dimensions $\varnothing \times l$	30 mm $\times$ 80 mm
Approx. weight	70 g
Impregnation	Oil
Fixing	Threaded bolt M8
Mounting hole	9,5 mm
Max. torque	4 Nm
Terminals	Tab connector 6,3 mm
Terminal cross section	1 mm <sup>2</sup>
Creepage distance	9 mm
Clearance	7 mm
Overpressure disconnector	

**Thermal data**

**B25832-F6205-K001**

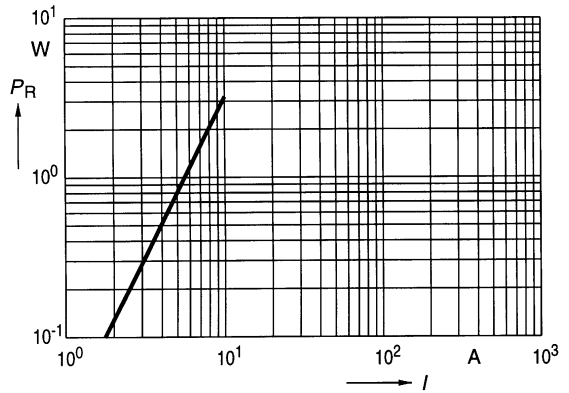
Dielectric power dissipation  $P_D$   
versus repetition frequency  $f_0$

$\hat{u}_{ac} = 930 \text{ V}$  —————  
 $\hat{u}_{ac} = 837 \text{ V}$  - - - - -



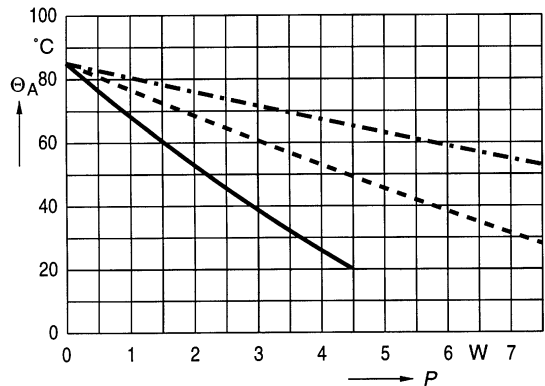
Ohmic power dissipation  $P_R$   
versus rms current value  $I$

$R_S (85^\circ\text{C}) = 32 \text{ m}\Omega$



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

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





# B 25 832

## General AC Applications

22  $\mu$ F / 930 Vac

Ordering code: B25832-C6226-K009

### Characteristics

$C_N$ , tol.	22 $\mu$ F $\pm$ 10 %
$U_N$	AC 930 V
$U_i$	AC 850 V
$I_{max}$	18 A
$L_{self}$	110 nH
$\tan \delta_0$	$2 \cdot 10^{-4}$
$R_S$	6,2 m $\Omega$

### Maximum ratings

$\hat{u}$	1200 V
$u_s$	1600 V
$\hat{i}$	660 A
$I_s$	1700 A
$(du/dt)_{max}$	30 V/ $\mu$ s
$(du/dt)_s$	75 V/ $\mu$ s

### Test data

$U_{TT}$	AC 1200 V, 10 s
$U_{TC}$	AC 2700 V, 10 s
$R_{is} \cdot C$	$\geq 3000$ s
$\tan \delta$ (50 Hz)	$\leq 3 \cdot 10^{-4}$

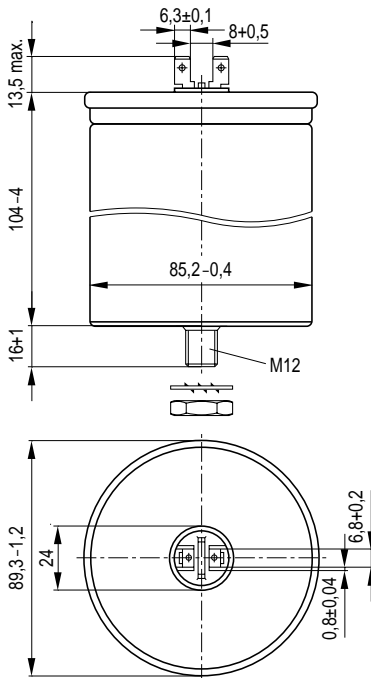
### Climatic data

$\Theta_{min}$	- 25 °C
$\Theta_{max}$	+ 85 °C
Humidity	Average relative humidity $\leq$ 75 %
$\alpha_{FQ(co)}$	1000/10 <sup>9</sup> h
$t_{LD(co)}$	30000 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

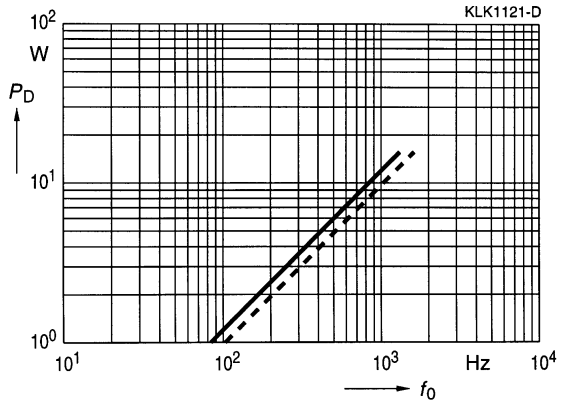
Dimensions $\varnothing \times l$	89,3 mm $\times$ 104 mm
Approx. weight	800 g
Impregnation	Oil
Fixing	Threaded bolt M12
Mounting hole	14 mm
Max. torque	10 Nm
Terminals	Dual tab connector 6,3 mm
Terminal cross section	1,5 mm <sup>2</sup>
Creepage distance	7 mm
Clearance	5 mm
Overpressure disconnecter	

**Thermal data**

**B25832-C6226-K009**

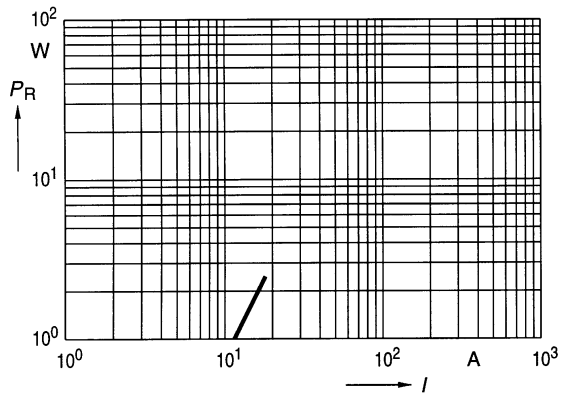
Dielectric power dissipation  $P_D$   
 versus repetition frequency  $f_0$

$\hat{u}_{ac} = 930 \text{ V}$  —————  
 $\hat{u}_{ac} = 837 \text{ V}$  - - - - -



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

$R_S (85 \text{ }^\circ\text{C}) = 7,6 \text{ m}\Omega$



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

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

