

**Compact design**  
**Enhanced inrush current withstand capability**

**Construction**

- Self-healing
- Metallized polypropylene dielectric
- Dry impregnation
- Wave cut and metal-sprayed end faces ensure reliable contacting
- Cylindrical aluminum case
- Single-phase or three-phase (star or delta connection)

**Terminals**

- Insulated double three-phase terminal
- Safe-to-touch clamps
- Protection against electric shock hazard (IP20, as per VDE 0106 part 100)
- Cross section up to 16 mm<sup>2</sup>

**Mounting/Grounding**

- Mounting bolt M 12 at the bottom of the case

**Standards**

- IEC 831-1: 1996, IEC 831-2: 1996
- EN 60831-1: 1993, EN 60831-2: 1993
- VDE 560-46: 3/95, VDE 560-47: 3/95

**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.

**Protection covers**

- Capacitor cover for IP 55 (optionally)
- Terminal cover (optionally)

**Individual data sheets**

Individual capacitors of this series are specified in detail (incl. thermal data) [on pages 320 ... 341](#).

Upon request, these data sheets are available for each capacitor type or may be found on Internet under

<http://www.siemens.de/pr/inf/20/55/d0000000.htm>.



**Technical data**

Losses (dielectric)		< 0,25 W/kvar
Dielectric dissipation factortan $\delta_0$		$2 \cdot 10^{-4}$
Overvoltage		$U_N + 10\%$ (up to 8 hours daily) $U_N + 15\%$ (up to 30 hours daily) $U_N + 20\%$ (up to 5 minutes) $U_N + 30\%$ (up to 1 minute)
Overcurrent		$1,3 \cdot I_N$ $1,5 \cdot I_N$ with 10 % overvoltage, 15 % over-capacitance and harmonics included
Inrush current		up to 300 times rated current
Ambient temperature category		-25/D
Lower category temperature	$\Theta_{\min}$	- 25 °C
Upper category temperature	$\Theta_{\max}$	+ 55 °C
Average rel. humidity		≤ 75 %
Storage temperature limit	$\Theta_{\text{stg}}$	- 55/+ 70 °C
Load duration (service life)	$t_{LD(\text{co})}$	100 000 operating hours
Degree of protection		IP 20, indoor mounting (optionally with capacitor cover for IP 55)
Test data:		
AC test voltage		
between terminals	$U_{TT}$	$2,15 \cdot U_N$ , 50 Hz, 10 s
between terminals and case	$U_{TC}$	$U_N \leq 660 \text{ V}$ : 3000 Vac, 50 Hz, 10 s $U_N > 660 \text{ V}$ : 6000 Vac, 50 Hz, 10 s
Dissipation factor (50 Hz)	tan $\delta$	≤ $10 \cdot 10^{-4}$

# B 25 667

## Power Factor Correction and Filtering

### Available ratings

#### 3-phase capacitors

$U_N$ (V)	AC	230	400	415	440	480	525	690
Output (kvar, 50 Hz)								
2,5								
5,0								
6,3								
7,5								
8,3								
10,0								
10,4								
11,2								
12,5								
14,2								
15,0								
16,7								
18,8								
20,8								
25,0								

#### 1-phase capacitors

2,5								
3,3								
5,0								
5,2								
6,3								
6,5								
7,5								
8,3								
10,0								
10,4								
12,5								
15,0								

 Data book range

**Characteristics and ordering codes for three-phase capacitors**

50 Hz		60 Hz		$C_N^{1)}$	Dimensions	Appr.	Type	Ordering	Pg.
$Q_N$	$I_N$	$Q_N$	$I_N$	$\mu F$	$d \times h$	weight	MKK-	code <sup>2)</sup>	
kvar	A	kvar	A		mm	kg		B25667-	
<b><math>U_N = 230 \text{ Vac (phase/phase)}</math></b>									
2,5	6,3	3,0	7,5	$3 \times 50$	$121 \times 164$	1,2	230-D-02,5-01	-A2157-A375	320
5,0	12,6	6,3	15,7	$3 \times 104$	$121 \times 164$	1,3	230-D-05-01	-A2317-A375	
7,5	18,8	9,0	22,6	$3 \times 150$	$121 \times 164$	1,3	230-D-07,5-01	-A2457-A375	
10,4	26,1	12,5	31,4	$3 \times 209$	$121 \times 164$	1,5	230-D-10-01	-A2627-A375	
12,5	31,4	—	—	$3 \times 250$	$121 \times 200$	1,7	230-D-12,5-01	-A2757-A375	
<b><math>U_N = 400 \text{ Vac (phase/phase)}</math></b>									
5,0	7,2	6,0	8,7	$3 \times 33$	$121 \times 164$	1,2	400-D-05-01	-A3996-A375	322
6,3	9,0	7,5	10,8	$3 \times 42$	$121 \times 164$	1,2	400-D-06,3-01	-A3127-A375	
7,5	10,8	9,0	13,0	$3 \times 50$	$121 \times 164$	1,2	400-D-07,5-01	-A3147-A375	
8,3	12,0	10,0	14,5	$3 \times 55$	$121 \times 164$	1,3	400-D-08,33-01	-A3167-A375	
10,4	15,0	12,0	18,0	$3 \times 69$	$121 \times 164$	1,3	400-D-10-01	-A3207-A375	
12,5	18,0	15,0	21,7	$3 \times 83$	$121 \times 164$	1,3	400-D-12,5-01	-A3247-A375	
15,0	21,7	18,0	26,0	$3 \times 100$	$121 \times 164$	1,5	400-D-15-01	-A3297-A375	324
16,7	24,0	20,0	29,0	$3 \times 111$	$121 \times 200$	1,6	400-D-16,7-01	-A3337-A375	
20,8	30,0	25,0	36,0	$3 \times 138$	$142 \times 200$	2,0	400-D-20-01	-A3417-A375	
25,0	36,0	—	—	$3 \times 166$	$142 \times 200$	2,2	400-D-25-01	-A3497-A375	
<b><math>U_N = 415 \text{ Vac (phase/phase)}</math></b>									
5,0	7,0	6,0	8,4	$3 \times 31$	$121 \times 164$	1,2	415-D-05-01	-A4926-A375	326
6,3	8,7	7,5	10,5	$3 \times 39$	$121 \times 164$	1,2	415-D-06,3-01	-A4117-A375	
10,4	14,5	12,5	17,4	$3 \times 64$	$121 \times 164$	1,2	415-D-10-01	-A4197-A375	
12,5	17,4	15,0	20,9	$3 \times 77$	$121 \times 164$	1,3	415-D-12,5-01	-A4237-A375	
15,0	20,9	18,0	25,0	$3 \times 93$	$121 \times 164$	1,4	415-D-15-01	-A4277-A375	
16,7	23,3	20,0	27,9	$3 \times 103$	$121 \times 164$	1,5	415-D-16,7-01	-A4307-A375	
20,8	29,0	—	—	$3 \times 128$	$121 \times 200$	1,7	415-D-20-01	-A4387-A375	
25,0	34,8	—	—	$3 \times 154$	$142 \times 200$	2,1	415-D-25-01	-A4467-A375	
<b><math>U_N = 440 \text{ Vac (phase/phase)}</math></b>									
5,0	6,6	6,0	7,9	$3 \times 27$	$121 \times 164$	1,2	440-D-05-01	-A4826-A375	326
7,5	9,9	9,0	11,8	$3 \times 41$	$121 \times 164$	1,2	440-D-07,5-01	-A4127-A375	
10,4	13,7	12,5	16,4	$3 \times 57$	$121 \times 164$	1,3	440-D-10-01	-A4177-A375	
11,2	14,7	13,5	17,7	$3 \times 61$	$121 \times 164$	1,4	440-D-11,2-01	-A4187-A375	
12,5	16,4	15,0	19,7	$3 \times 69$	$121 \times 164$	1,4	440-D-12,5-01	-A4207-A375	
14,2	18,7	17,0	22,4	$3 \times 78$	$121 \times 164$	1,5	440-D-14,2-01	-A4237-A365	

More values for  $U_N = 440 \text{ V}$ , cont'd on next page

1) Capacitance tolerance – 5/+ 10 %  
2) Example: B25667-A2157-A375

## B 25 667 Power Factor Correction and Filtering

### Characteristics and ordering codes for three-phase capacitors

50 Hz		60 Hz		$C_N^{1)}$	Dimensions	Appr.	Type	Ordering	Pg.	
$Q_N$	$I_N$	$Q_N$	$I_N$	$\mu F$	$d \times h$	weight	MKK-	code <sup>2)</sup>		
kvar	A	kvar	A		mm	kg		B25667-		
<b><math>U_N = 440</math> Vac (phase/phase)</b>										
15,0	19,7	18,0	23,7	$3 \times 82$	$121 \times 164$	1,6	440-D-15-01	-A4247-A375	328	
16,7	21,9	20,0	26,3	$3 \times 92$	$121 \times 200$	1,7	440-D-16,7-01	-A4277-A365		
18,8	24,7	22,5	29,6	$3 \times 103$	$142 \times 200$	2,0	440-D-18,8-01	-A4307-A365		
20,8	27,3	25,0	32,8	$3 \times 114$	$142 \times 200$	2,1	440-D-20-01	-A4347-A375		
25,0	32,8	—	—	$3 \times 137$	$142 \times 200$	2,3	440-D-25-01	-A4417-A375		
<b><math>U_N = 480</math> Vac (phase/phase)</b>										
5,0	6,0	6,0	7,2	$3 \times 23$	$121 \times 164$	1,1	480-D-05-01	-A4696-A375	330	
6,3	7,5	7,5	9,0	$3 \times 29$	$121 \times 164$	1,2	480-D-06,3-01	-A4866-A375		
7,5	9,0	9,0	10,8	$3 \times 35$	$121 \times 164$	1,2	480-D-07,5-01	-A4107-A375		
8,3	10,0	10,0	12,0	$3 \times 38$	$121 \times 164$	1,2	480-D-08,3-01	-A4117-A365		
10,4	12,5	12,5	15,0	$3 \times 48$	$121 \times 164$	1,3	480-D-10-01	-A4147-A375		
12,5	15,0	15,0	18,0	$3 \times 58$	$121 \times 164$	1,5	480-D-12,5-01	-A4177-A365		
15,0	18,0	18,0	21,7	$3 \times 69$	$121 \times 200$	1,7	480-D-15-01	-A4207-A365		
16,7	20,0	20,0	24,0	$3 \times 77$	$121 \times 200$	1,8	480-D-16,7-01	-A4237-A355		
20,8	25,0	25,0	30,0	$3 \times 96$	$142 \times 200$	2,2	480-D-20-01	-A4287-A375		
25,0	30,0	—	—	$3 \times 115$	$142 \times 200$	2,4	480-D-25-01	-A4347-A365		
<b><math>U_N = 525</math> Vac (phase/phase)</b>										
6,3	6,9	7,5	8,3	$3 \times 24$	$121 \times 164$	1,1	525-D-06,25-01	-A5726-A375		332
8,3	9,2	10,0	11,0	$3 \times 32$	$121 \times 164$	1,2	525-D-08,3-01	-A5966-A375		
10,4	11,5	12,5	13,7	$3 \times 40$	$121 \times 164$	1,4	525-D-10-01	-A5127-A375		
12,5	13,8	15,0	16,5	$3 \times 48$	$121 \times 164$	1,5	525-D-12,5-01	-A5147-A375		
15,0	16,5	18,0	19,8	$3 \times 58$	$121 \times 200$	1,7	525-D-15-01	-A5177-A375		
16,7	18,4	20,0	22,0	$3 \times 64$	$121 \times 200$	1,8	525-D-16,7-01	-A5197-A375		
20,8	22,9	25,0	27,5	$3 \times 80$	$142 \times 200$	2,2	525-D-20-01	-A5247-A375		
25,0	27,5	—	—	$3 \times 96$	$142 \times 200$	2,5	525-D-25-01	-A5287-A375		
<b><math>U_N = 690</math> Vac (phase/phase)<sup>3)</sup></b>										
5,0	4,2	6,0	5,0	$3 \times 33$	$121 \times 164$	1,2	690-Y-05-01	-A6996-A375	334	
10,0	8,4	12,5	10,5	$3 \times 70$	$121 \times 164$	1,3	690-Y-10-01	-A6207-A375		
12,5	10,5	15,0	12,5	$3 \times 84$	$121 \times 164$	1,4	690-Y-12,5-01	-A6257-A375		
15,0	12,6	18,0	15,0	$3 \times 100$	$121 \times 164$	1,5	690-Y-15-01	-A6307-A375		
20,8	17,4	—	—	$3 \times 139$	$142 \times 200$	2,0	690-Y-20-01	-A6417-A375		
25,0	21,0	—	—	$3 \times 167$	$142 \times 200$	2,2	690-Y-25-01	-A6507-A375		

1) Capacitance tolerance – 5/+ 10 %

2) Example: B25667-A4247-A375

3) Star connection: the triple capacitance of a delta connection is stated (refer also to section 3.4.2).

**Characteristics and ordering codes for single-phase capacitors**

50 Hz		60 Hz		$C_N^{1)}$	Dimensions	Appr.	Type	Ordering	Pg.
$Q_N$	$I_N$	$Q_N$	$I_N$	$\mu F$	$d \times h$	weight	MKK-	code <sup>2)</sup>	
kvar	A	kvar	A		mm	kg		B25667-	
<b><math>U_N = 230 \text{ Vac (phase/neutral)}</math></b>									
2,5	10,9	3,0	13,0	150	121 × 164	1,1	230-I-02,5-01	-A2157-A175	336
3,3	14,5	4,0	17,4	200	121 × 164	1,1	230-I-03,3-01	-A2207-A175	
5,2	22,6	6,2	27,0	313	121 × 164	1,1	230-I-05-01	-A2317-A175	
8,3	36,2	—	—	502	121 × 164	1,3	230-I-08,3-01	-A2507-A175	
<b><math>U_N = 400 \text{ Vac (phase/neutral)}</math></b>									
5,0	12,5	6,0	15,0	100	121 × 164	1,1	400-I-05-01	-A3107-A175	338
6,3	15,6	7,5	18,8	124	121 × 164	1,1	400-I-06,3-01	-A3127-A175	
7,5	18,8	9,0	22,5	149	121 × 164	1,1	400-I-07,5-01	-A3147-A175	
8,3	20,8	10,0	25,0	166	121 × 164	1,1	400-I-08,3-01	-A3167-A175	
10,4	26,0	12,5	31,2	207	121 × 164	1,2	400-I-10,4-01	-A3207-A175	
12,5	31,3	15,0	37,5	249	121 × 164	1,3	400-I-12,5-01	-A3247-A175	
<b><math>U_N = 525 \text{ Vac (phase/neutral)}</math></b>									
6,5	12,4	7,8	14,9	75	121 × 164	1,1	525-I-06,5-01	-A5756-A175	340
8,3	15,9	10,0	19,0	96	121 × 164	1,2	525-I-08,3-01	-A5966-A175	
10,0	19,0	12,0	22,9	116	121 × 164	1,3	525-I-10-01	-A5117-A175	
12,5	23,8	15,0	28,6	144	121 × 164	1,5	525-I-12,5-01	-A5147-A175	
15,0	28,5	18,0	34,3	173	121 × 200	1,7	525-I-15-01	-A5177-A175	

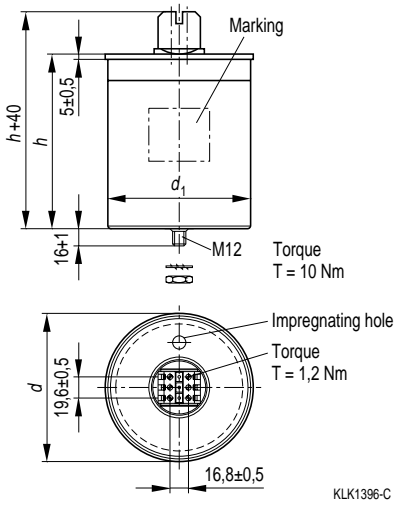
1) Capacitance tolerance – 5/+ 10 %

2) Example: B25667-A2157-A175

# B 25 667

## Power Factor Correction and Filtering

### Dimensional drawing



Dimensions in mm

$\varnothing d -1,5$	$h \pm 2,0$	$\varnothing d_1 -0,6$	Creepage distance min.	Clearance min.
121,6	164	116,2	12,7	9,6
121,6	200	116,2	12,7	9,6
142	200	136,6	12,7	9,6

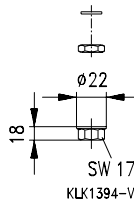
### Mounting parts

Toothed washer J12,5 DIN 6797

Hex nut M12 ISO 4035

or

nut C61010-A415-C15



Included in delivery:

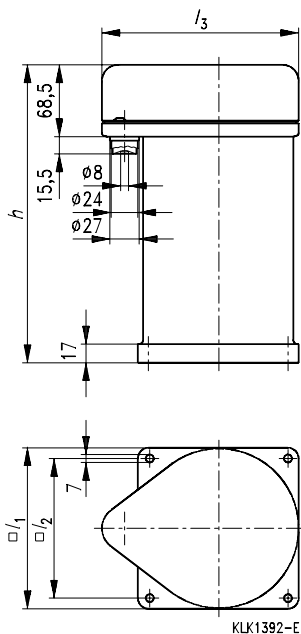
Discharge resistors

Hex nut

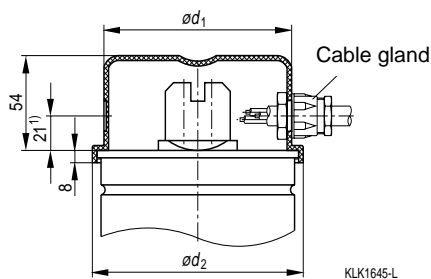
Toothed washer

**Protection covers**

Molded plastic capacitor cover



Molded plastic terminal cover



Capacitor cover

Capacitor diameter	Degree of protection	Ordering code	Dimensions (mm)				Weight g
			$l_1$	$l_2$	$l_3$	$h$	
121,6 mm	IP55	B44066-X9122	134	110	177	243	300
142,0 mm	IP55	B44066-X9142	154,5	130,5	186	280	600

Terminal cover

Capacitor diameter	For cable gland	For cable diameter	Ordering code	Dimensions (mm)	
				$\varnothing d_1$	$\varnothing d_2$
121,6 mm	PG 13,5	9 ... 13 mm	B44066-K1211	116	125
121,6 mm	PG 16	10 ... 14 mm	B44066-K1212	116	125
142,0 mm	PG 21	14 ... 18 mm	B44066-K1421	137	145

1) Perforation for second cable gland



# B 25 667

## Power Factor Correction and Filtering

230 Vac / 3 ph / 12,5 kvar  
MKK-230-D-12,5-01

Ordering code: B25667-A2757-A375

### Characteristics

$C_N$ , tol.	$3 \times 250,8 \mu\text{F} +10/-5 \%$
$Q_N$	12,5 kvar
$U_N$	AC 230 V
$f_N$	50 Hz
$I_N$	$3 \times 31,4 \text{ A}$
$\tan \delta_0$	$2 \cdot 10^{-4}$

### Maximum ratings

$U_{\text{max}}$	$1,1 \cdot U_N$ , 8 h daily
$I_{\text{max}}$	$1,3 \cdot I_N$
$I_s$	$200 \cdot I_N$
$(du/dt)_{\text{max}}$	8 V/ $\mu\text{s}$
$(du/dt)_s$	20 V/ $\mu\text{s}$

### Test data

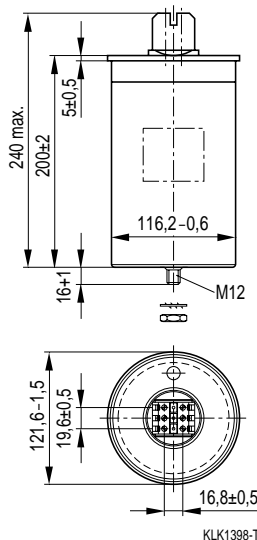
$U_{TT}$	AC 500 V, 10 s
$U_{TC}$	AC 3000 V, 50 Hz, 10 s
$\tan \delta$ (50 Hz)	$\leq 9 \cdot 10^{-4}$

### Climatic category – 25/D

$\Theta_{\text{min}}$	- 25 °C
$\Theta_{\text{max}}$	+ 55 °C
Humidity	Average relative humidity $\leq 75 \%$
$t_{LD(\text{co})}$	100000 h
$\Theta_{\text{stg}}$	- 55 to + 70 °C

### Remarks

Natural cooling  
Delta connection  
IEC 831-1/2, EN 60831-1/2, VDE 560-46/47



### Design data

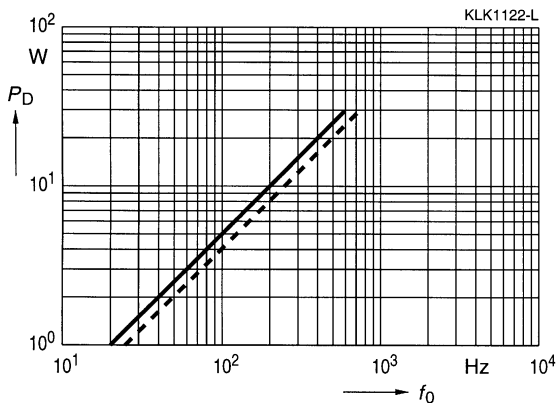
Dimensions $\varnothing \times l$	121,6 mm $\times$ 200 mm
Approx. weight	1700 g
Impregnation	Gas
Fixing	Threaded bolt M12
Mounting hole	14 mm
Max. torque	10 Nm
Terminals	Safe-to-touch terminals
Max. torque	1,2 Nm
Terminal cross section	16 mm <sup>2</sup>
Creepage distance	12,7 mm
Clearance	9,6 mm
Overpressure disconnecter	
Any mounting position	
Black painted case	

**Thermal data**

**B25667-A2757-A375**

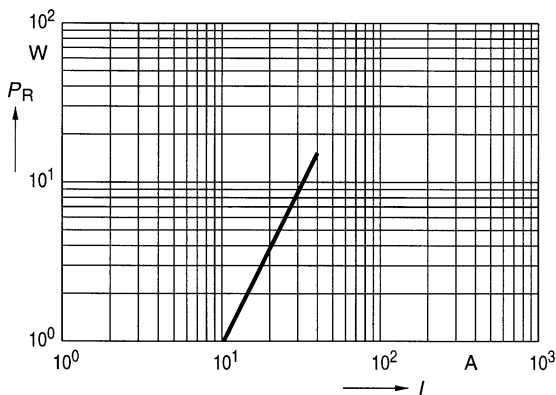
Dielectric power dissipation  $P_D$   
versus repetition frequency  $f_0$

$U_N = AC\ 230\ V$  —————  
 $0,9 \cdot U_N = AC\ 207\ V$  - - - - -



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

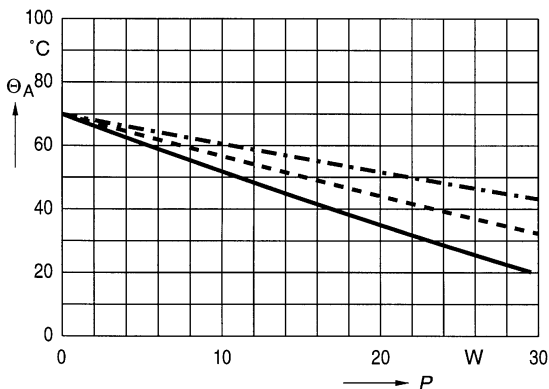
$R_S (70\ ^\circ C) = 9,5\ m\Omega$



Permissible ambient temperature  $\Theta_A$   
versus total power dissipation  $P$

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

black painted



# B 25 667

## Power Factor Correction and Filtering

400 Vac / 3 ph / 12,5 kvar  
MKK-400-D-12,5-01

Ordering code: B25667-A3247-A375

### Characteristics

$C_N$ , tol.	$3 \times 82,9 \mu\text{F} +10/-5 \%$
$Q_N$	12,5 kvar
$U_N$	AC 400 V
$f_N$	50 Hz
$I_N$	$3 \times 18 \text{ A}$
$\tan \delta_0$	$2 \cdot 10^{-4}$

### Maximum ratings

$U_{\text{max}}$	$1,1 \cdot U_N$ , 8 h daily
$I_{\text{max}}$	$1,3 \cdot I_N$
$I_s$	$200 \cdot I_N$
$(du/dt)_{\text{max}}$	14 V/ $\mu\text{s}$
$(du/dt)_s$	35 V/ $\mu\text{s}$

### Test data

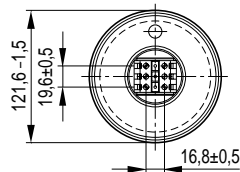
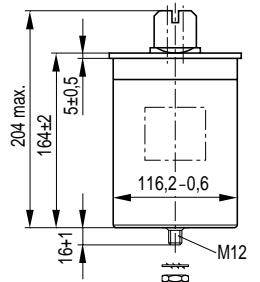
$U_{TT}$	AC 860 V, 10 s
$U_{TC}$	AC 3000 V, 50 Hz, 10 s
$\tan \delta$ (50 Hz)	$\leq 6 \cdot 10^{-4}$

### Climatic category – 25/D

$\Theta_{\text{min}}$	- 25 °C
$\Theta_{\text{max}}$	+ 55 °C
Humidity	Average relative humidity $\leq 75 \%$
$t_{LD(\text{co})}$	100000 h
$\Theta_{\text{stg}}$	- 55 to + 70 °C

### Remarks

Natural cooling  
Delta connection  
IEC 831-1/2, EN 60831-1/2, VDE 560-46/47



KLK1397-K

### Design data

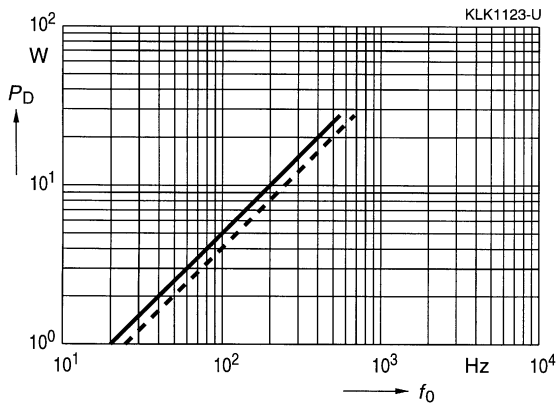
Dimensions $\varnothing \times l$	121,6 mm $\times$ 164 mm
Approx. weight	1300 g
Impregnation	Gas
Fixing	Threaded bolt M12
Mounting hole	14 mm
Max. torque	10 Nm
Terminals	Safe-to-touch terminals
Max. torque	1,2 Nm
Terminal cross section	16 mm <sup>2</sup>
Creepage distance	12,7 mm
Clearance	9,6 mm
Overpressure disconnecter	
Any mounting position	
Black painted case	

**Thermal data**

**B25667-A3247-A375**

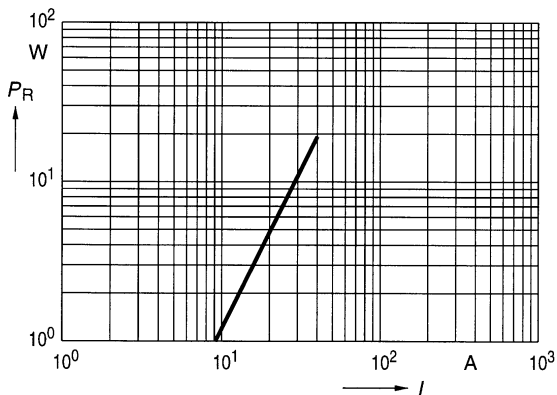
Dielectric power dissipation  $P_D$   
versus repetition frequency  $f_0$

$U_N = AC\ 400\ V$  —————  
 $0,9 \cdot U_N = AC\ 360\ V$  - - - - -



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

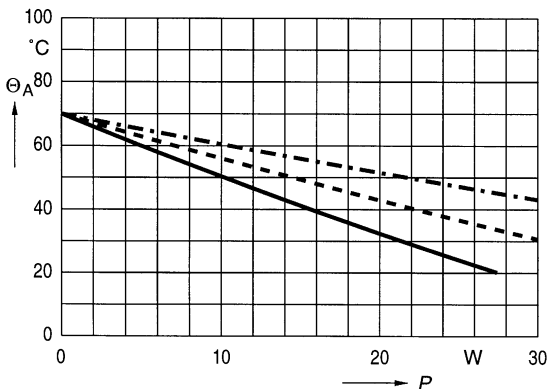
$R_S (70\ ^\circ C) = 12\ m\Omega$



Permissible ambient temperature  $\Theta_A$   
versus total power dissipation  $P$

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

black painted



# B 25 667

## Power Factor Correction and Filtering

400 Vac / 3 ph / 25 kvar  
MKK-400-D-25-01

Ordering code: B25667-A3497-A375

### Characteristics

$C_N$ , tol.	$3 \times 165,9 \mu\text{F} +10/-5 \%$
$Q_N$	25 kvar
$U_N$	AC 400 V
$f_N$	50 Hz
$I_N$	$3 \times 36,1 \text{ A}$
$\tan \delta_0$	$2 \cdot 10^{-4}$

### Maximum ratings

$U_{\text{max}}$	$1,1 \cdot U_N$ , 8 h daily
$I_{\text{max}}$	$1,3 \cdot I_N$
$I_s$	$200 \cdot I_N$
$(du/dt)_{\text{max}}$	10 V/ $\mu\text{s}$
$(du/dt)_s$	25 V/ $\mu\text{s}$

### Test data

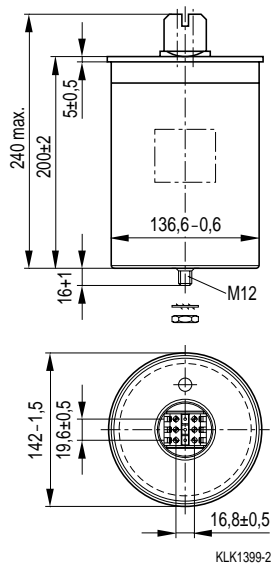
$U_{TT}$	AC 860 V, 10 s
$U_{TC}$	AC 3000 V, 50 Hz, 10 s
$\tan \delta$ (50 Hz)	$\leq 7 \cdot 10^{-4}$

### Climatic category – 25/D

$\Theta_{\text{min}}$	- 25 °C
$\Theta_{\text{max}}$	+ 55 °C
Humidity	Average relative humidity $\leq 75 \%$
$t_{LD(\text{co})}$	100000 h
$\Theta_{\text{stg}}$	- 55 to + 70 °C

### Remarks

Natural cooling  
Delta connection  
IEC 831-1/2, EN 60831-1/2, VDE 560-46/47



### Design data

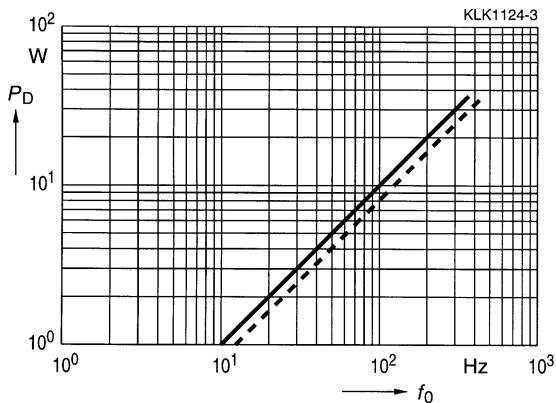
Dimensions $\varnothing \times l$	142 mm $\times$ 200 mm
Approx. weight	2200 g
Impregnation	Gas
Fixing	Threaded bolt M12
Mounting hole	14 mm
Max. torque	10 Nm
Terminals	Safe-to-touch terminals
Max. torque	1,2 Nm
Terminal cross section	16 mm <sup>2</sup>
Creepage distance	12,7 mm
Clearance	9,6 mm
Overpressure disconnecter	
Any mounting position	
Black painted case	

### Thermal data

**B25667-A3497-A375**

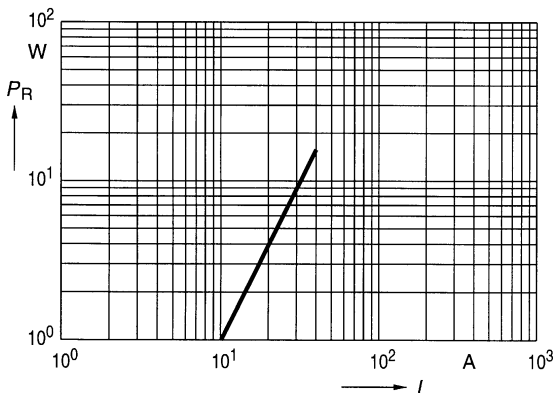
Dielectric power dissipation  $P_D$   
versus repetition frequency  $f_0$

$U_N = \text{AC } 400 \text{ V}$  —————  
 $0,9 \cdot U_N = \text{AC } 360 \text{ V}$  - - - - -



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

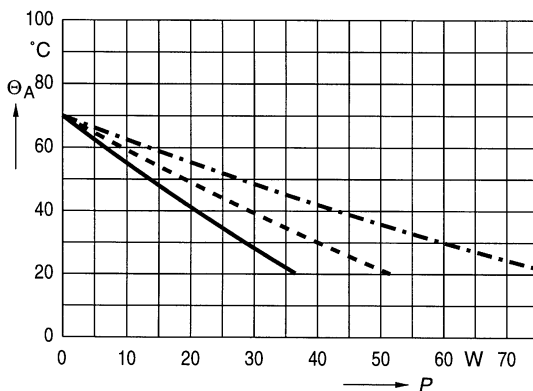
$R_S (70\text{ }^\circ\text{C}) = 9,8\text{ m}\Omega$



Permissible ambient temperature  $\Theta_A$   
versus total power dissipation  $P$

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

black painted



# B 25 667

## Power Factor Correction and Filtering

415 Vac / 3 ph / 25 kvar  
MKK-415-D-25-01

Ordering code: B25667-A4467-A375

### Characteristics

$C_N$ , tol.	$3 \times 154,1 \mu\text{F} +10/-5 \%$
$Q_N$	25 kvar
$U_N$	AC 415 V
$f_N$	50 Hz
$I_N$	$3 \times 34,8 \text{ A}$
$\tan \delta_0$	$2 \cdot 10^{-4}$

### Maximum ratings

$U_{\text{max}}$	$1,1 \cdot U_N$ , 8 h daily
$I_{\text{max}}$	$1,3 \cdot I_N$
$I_s$	$200 \cdot I_N$
$(du/dt)_{\text{max}}$	10 V/ $\mu\text{s}$
$(du/dt)_s$	25 V/ $\mu\text{s}$

### Test data

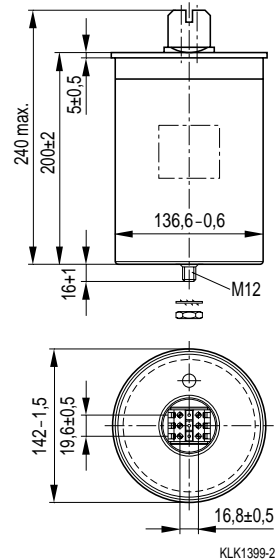
$U_{TT}$	AC 900 V, 10 s
$U_{TC}$	AC 3000 V, 50 Hz, 10 s
$\tan \delta$ (50 Hz)	$\leq 7 \cdot 10^{-4}$

### Climatic category – 25/D

$\Theta_{\text{min}}$	- 25 °C
$\Theta_{\text{max}}$	+ 55 °C
Humidity	Average relative humidity $\leq 75 \%$
$t_{LD(\text{co})}$	100000 h
$\Theta_{\text{stg}}$	- 55 to + 70 °C

### Remarks

Natural cooling  
Delta connection  
IEC 831-1/2, EN 60831-1/2, VDE 560-46/47



### Design data

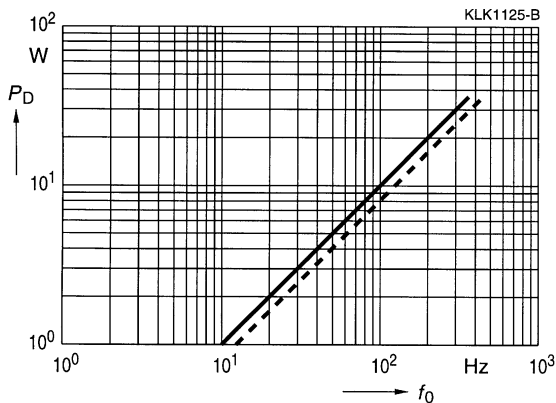
Dimensions $\varnothing \times l$	142 mm $\times$ 200 mm
Approx. weight	2100 g
Impregnation	Gas
Fixing	Threaded bolt M12
Mounting hole	14 mm
Max. torque	10 Nm
Terminals	Safe-to-touch terminals
Max. torque	1,2 Nm
Terminal cross section	16 mm <sup>2</sup>
Creepage distance	12,7 mm
Clearance	9,6 mm
Overpressure disconnecter	
Any mounting position	
Black painted case	

**Thermal data**

**B25667-A4467-A375**

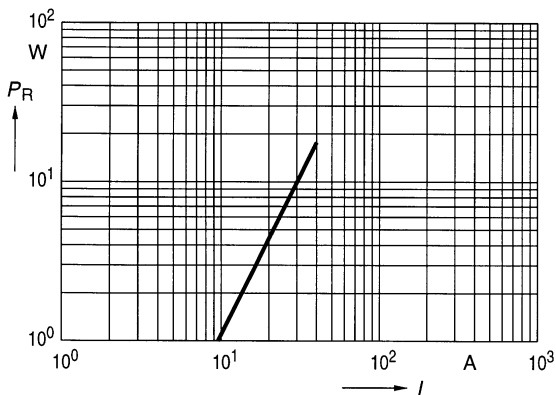
Dielectric power dissipation  $P_D$   
versus repetition frequency  $f_0$

$U_N = AC\ 415\ V$  —————  
 $0,9 \cdot U_N = AC\ 374\ V$  - - - - -



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

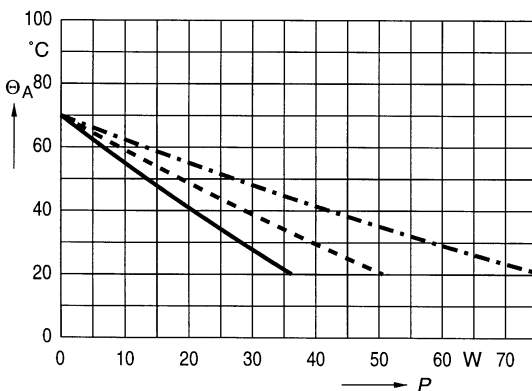
$R_S (70\ ^\circ C) = 11\ m\Omega$



Permissible ambient temperature  $\Theta_A$   
versus total power dissipation  $P$

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

black painted





# B 25 667

## Power Factor Correction and Filtering

440 Vac / 3 ph / 18,8 kvar  
MKK-440-D-18,8-01

Ordering code: B25667-A4307-A365

### Characteristics

$C_N$ , tol.	$3 \times 103,1 \mu\text{F} +10/-5 \%$
$Q_N$	18,8 kvar
$U_N$	AC 440 V
$f_N$	50 Hz
$I_N$	$3 \times 24,7 \text{ A}$
$\tan \delta_0$	$2 \cdot 10^{-4}$

### Maximum ratings

$U_{\text{max}}$	$1,1 \cdot U_N$ , 8 h daily
$I_{\text{max}}$	$1,3 \cdot I_N$
$I_s$	$200 \cdot I_N$
$(du/dt)_{\text{max}}$	12 V/ $\mu\text{s}$
$(du/dt)_s$	30 V/ $\mu\text{s}$

### Test data

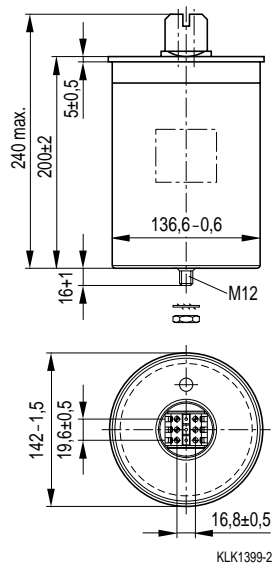
$U_{\text{TT}}$	AC 950 V, 10 s
$U_{\text{TC}}$	AC 3000 V, 50 Hz, 10 s
$\tan \delta$ (50 Hz)	$\leq 6 \cdot 10^{-4}$

### Climatic category – 25/D

$\Theta_{\text{min}}$	- 25 °C
$\Theta_{\text{max}}$	+ 55 °C
Humidity	Average relative humidity $\leq 75 \%$
$t_{\text{LD(co)}}$	100000 h
$\Theta_{\text{stg}}$	- 55 to + 70 °C

### Remarks

Natural cooling  
Delta connection  
IEC 831-1/2, EN 60831-1/2, VDE 560-46/47



### Design data

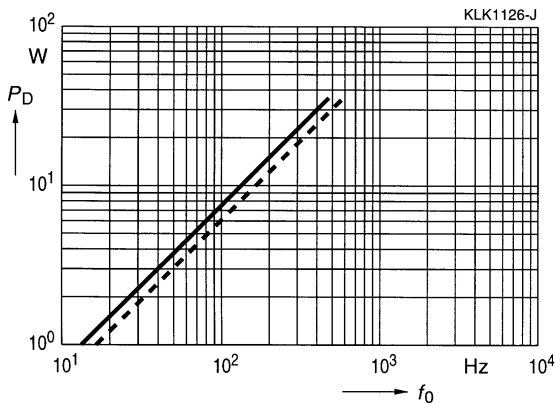
Dimensions $\varnothing \times l$	142 mm $\times$ 200 mm
Approx. weight	2000 g
Impregnation	Gas
Fixing	Threaded bolt M12
Mounting hole	14 mm
Max. torque	10 Nm
Terminals	Safe-to-touch terminals
Max. torque	1,2 Nm
Terminal cross section	16 mm <sup>2</sup>
Creepage distance	12,7 mm
Clearance	9,6 mm
Overpressure disconnecter	
Any mounting position	
Black painted case	

**Thermal data**

**B25667-A4307-A365**

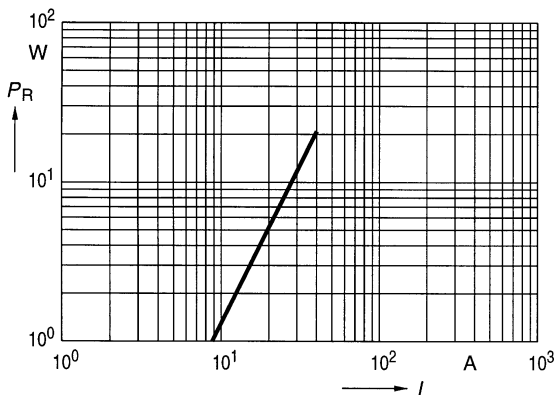
Dielectric power dissipation  $P_D$   
versus repetition frequency  $f_0$

$U_N = AC\ 440\ V$  —————  
 $0,9 \cdot U_N = AC\ 396\ V$  - - - - -



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

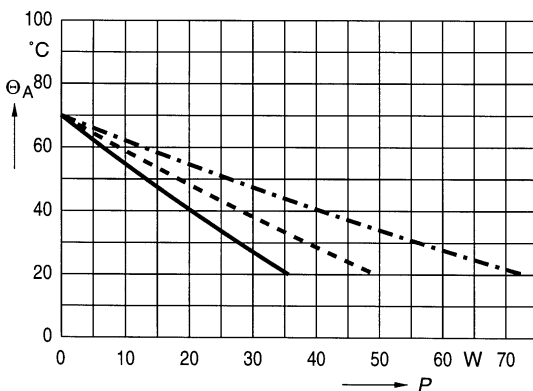
$R_S (70\ ^\circ C) = 13\ m\Omega$



Permissible ambient temperature  $\Theta_A$   
versus total power dissipation  $P$

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

black painted



# B 25 667

## Power Factor Correction and Filtering

480 Vac / 3 ph / 25 kvar  
MKK-480-D-25-01

Ordering code: B25667-A4347-A365

### Characteristics

$C_N$ , tol.	$3 \times 115,2 \mu\text{F} +10/-5 \%$
$Q_N$	25 kvar
$U_N$	AC 480 V
$f_N$	50 Hz
$I_N$	$3 \times 30,1 \text{ A}$
$\tan \delta_0$	$2 \cdot 10^{-4}$

### Maximum ratings

$U_{\text{max}}$	$1,1 \cdot U_N$ , 8 h daily
$I_{\text{max}}$	$1,3 \cdot I_N$
$I_s$	$200 \cdot I_N$
$(du/dt)_{\text{max}}$	14 V/ $\mu\text{s}$
$(du/dt)_s$	35 V/ $\mu\text{s}$

### Test data

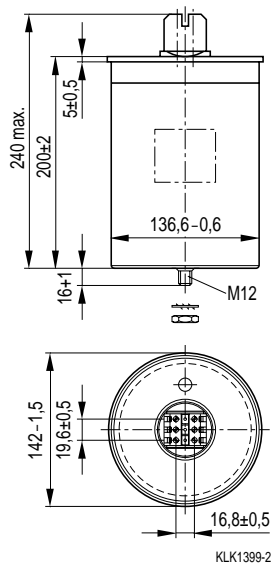
$U_{TT}$	AC 1050 V, 10 s
$U_{TC}$	AC 3000 V, 50 Hz, 10 s
$\tan \delta$ (50 Hz)	$\leq 6 \cdot 10^{-4}$

### Climatic category – 25/D

$\Theta_{\text{min}}$	- 25 °C
$\Theta_{\text{max}}$	+ 55 °C
Humidity	Average relative humidity $\leq 75 \%$
$t_{LD(\text{co})}$	100000 h
$\Theta_{\text{stg}}$	- 55 to + 70 °C

### Remarks

Natural cooling  
Delta connection  
IEC 831-1/2, EN 60831-1/2, VDE 560-46/47



### Design data

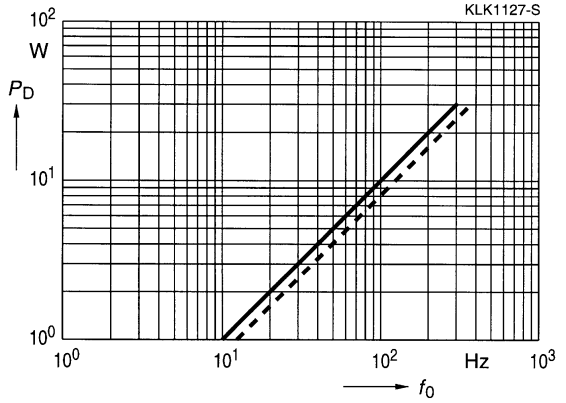
Dimensions $\varnothing \times l$	142 mm $\times$ 200 mm
Approx. weight	2400 g
Impregnation	Gas
Fixing	Threaded bolt M12
Mounting hole	14 mm
Max. torque	10 Nm
Terminals	Safe-to-touch terminals
Max. torque	1,2 Nm
Terminal cross section	16 mm <sup>2</sup>
Creepage distance	12,7 mm
Clearance	9,6 mm
Overpressure disconnecter	
Any mounting position	
Black painted case	

**Thermal data**

**B25667-A4347-A365**

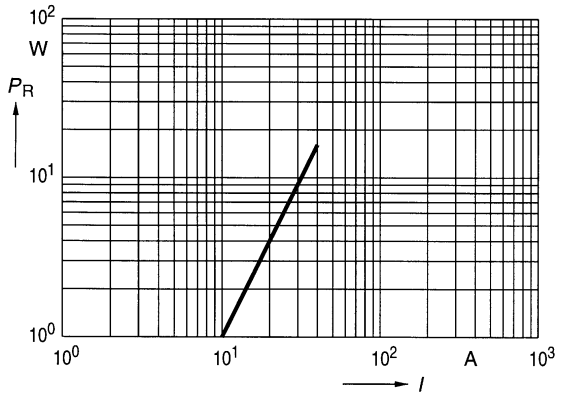
Dielectric power dissipation  $P_D$   
versus repetition frequency  $f_0$

$U_N = AC\ 480\ V$  —————  
 $0,9 \cdot U_N = AC\ 432\ V$  - - - - -



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

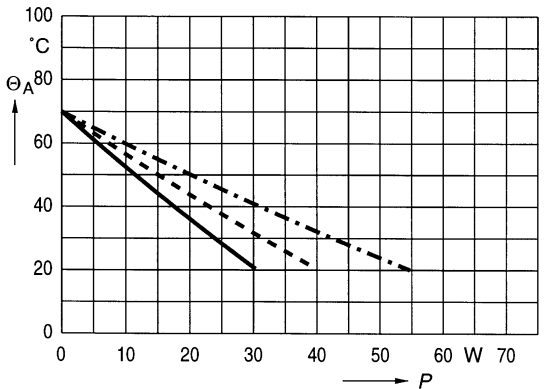
$R_S (70\ ^\circ C) = 10\ m\Omega$



Permissible ambient temperature  $\Theta_A$   
versus total power dissipation  $P$

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

black painted



# B 25 667

## Power Factor Correction and Filtering

525 Vac / 3 ph / 25 kvar  
 MKK-525-D-25-01

Ordering code: B25667-A5287-A375

### Characteristics

$C_N$ , tol.	$3 \times 96,3 \mu\text{F} +10/-5 \%$
$Q_N$	25 kvar
$U_N$	AC 525 V
$f_N$	50 Hz
$I_N$	$3 \times 27,5 \text{ A}$
$\tan \delta_0$	$2 \cdot 10^{-4}$

### Maximum ratings

$U_{\text{max}}$	$1,1 \cdot U_N$ , 8 h daily
$I_{\text{max}}$	$1,3 \cdot I_N$
$I_s$	$200 \cdot I_N$
$(du/dt)_{\text{max}}$	16 V/ $\mu\text{s}$
$(du/dt)_s$	40 V/ $\mu\text{s}$

### Test data

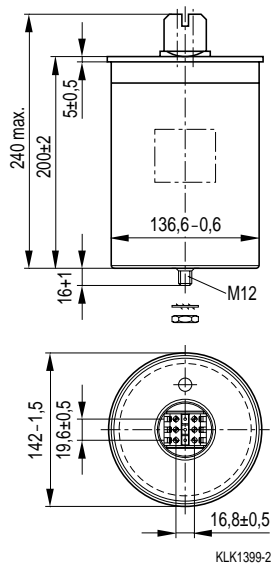
$U_{TT}$	AC 1150 V, 10 s
$U_{TC}$	AC 3000 V, 50 Hz, 10 s
$\tan \delta$ (50 Hz)	$\leq 5 \cdot 10^{-4}$

### Climatic category – 25/D

$\Theta_{\text{min}}$	- 25 °C
$\Theta_{\text{max}}$	+ 55 °C
Humidity	Average relative humidity $\leq 75 \%$
$t_{LD(\text{co})}$	100000 h
$\Theta_{\text{stg}}$	- 55 to + 70 °C

### Remarks

Natural cooling  
 Delta connection  
 IEC 831-1/2, EN 60831-1/2, VDE 560-46/47



### Design data

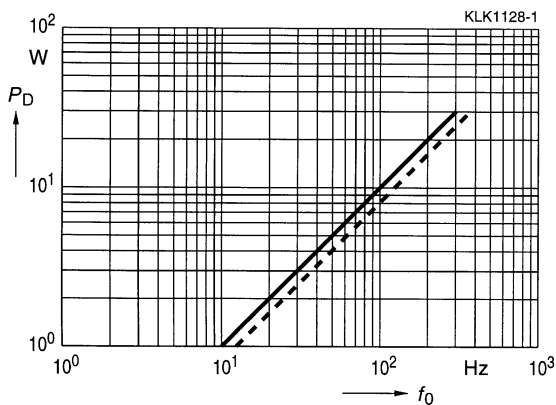
Dimensions $\varnothing \times l$	142 mm $\times$ 200 mm
Approx. weight	2500 g
Impregnation	Gas
Fixing	Threaded bolt M12
Mounting hole	14 mm
Max. torque	10 Nm
Terminals	Safe-to-touch terminals
Max. torque	1,2 Nm
Terminal cross section	16 mm <sup>2</sup>
Creepage distance	12,7 mm
Clearance	9,6 mm
Overpressure disconnecter	
Any mounting position	
Black painted case	

**Thermal data**

**B25667-A5287-A375**

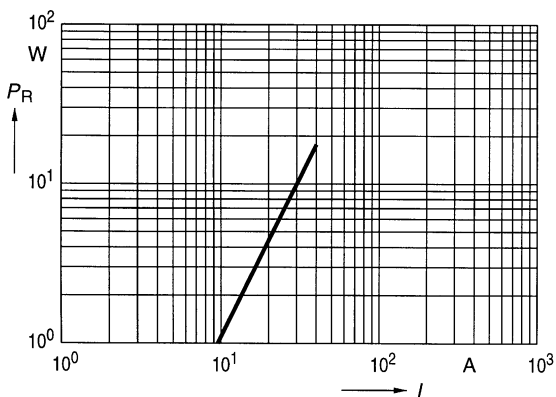
Dielectric power dissipation  $P_D$   
versus repetition frequency  $f_0$

$U_N = AC\ 525\ V$  —————  
 $0,9 \cdot U_N = AC\ 473\ V$  - - - - -



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

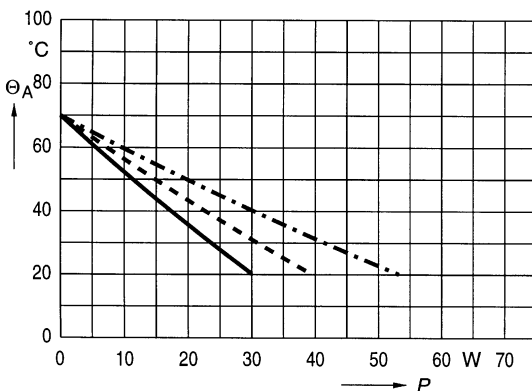
$R_S (70\ ^\circ C) = 11\ m\Omega$



Permissible ambient temperature  $\Theta_A$   
versus total power dissipation  $P$

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

black painted



# B 25 667

## Power Factor Correction and Filtering

690 Vac / 3 ph / 25 kvar  
MKK-690-Y-25-01

Ordering code: B25667-A6507-A375

### Characteristics

$C_N$ , tol.	$3 \times 167,2 \mu\text{F} +10/-5 \%$
$Q_N$	25 kvar
$U_N$	AC 690 V
$f_N$	50 Hz
$I_N$	$3 \times 20,9 \text{ A}$
$\tan \delta_0$	$2 \cdot 10^{-4}$

### Maximum ratings

$U_{\text{max}}$	$1,1 \cdot U_N$ , 8 h daily
$I_{\text{max}}$	$1,3 \cdot I_N$
$I_s$	$200 \cdot I_N$
$(du/dt)_{\text{max}}$	20 V/ $\mu\text{s}$
$(du/dt)_s$	50 V/ $\mu\text{s}$

### Test data

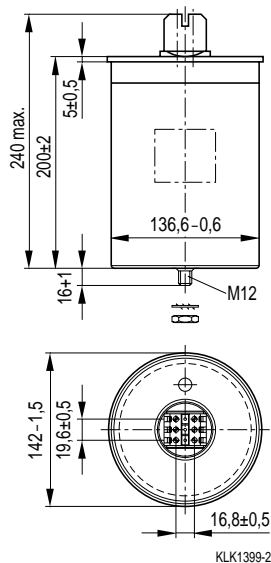
$U_{TT}$	AC 1500 V, 10 s
$U_{TC}$	AC 6000 V, 50 Hz, 10 s
$\tan \delta$ (50 Hz)	$\leq 6 \cdot 10^{-4}$

### Climatic category – 25/D

$\Theta_{\text{min}}$	- 25 °C
$\Theta_{\text{max}}$	+ 55 °C
Humidity	Average relative humidity $\leq 75 \%$
$t_{LD(\text{co})}$	100000 h
$\Theta_{\text{stg}}$	- 55 to + 70 °C

### Remarks

Natural cooling  
Star connection  
IEC 831-1/2, EN 60831-1/2, VDE 560-46/47



### Design data

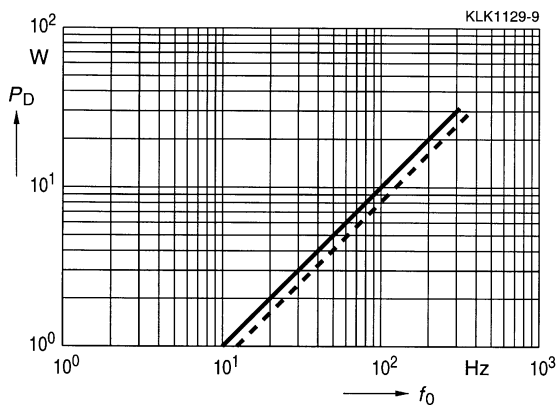
Dimensions $\varnothing \times l$	142 mm $\times$ 200 mm
Approx. weight	2200 g
Impregnation	Gas
Fixing	Threaded bolt M12
Mounting hole	14 mm
Max. torque	10 Nm
Terminals	Safe-to-touch terminals
Max. torque	1,2 Nm
Terminal cross section	16 mm <sup>2</sup>
Creepage distance	12,7 mm
Clearance	9,6 mm
Overpressure disconnecter	
Any mounting position	
Black painted case	

**Thermal data**

**B25667-A6507-A375**

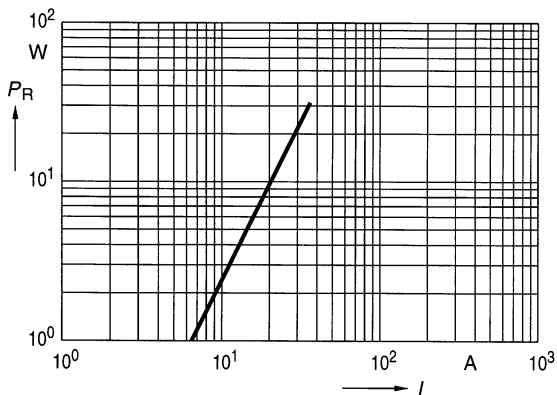
Dielectric power dissipation  $P_D$   
versus repetition frequency  $f_0$

$U_N = AC\ 690\ V$  —————  
 $0,9 \cdot U_N = AC\ 621\ V$  - - - - -



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

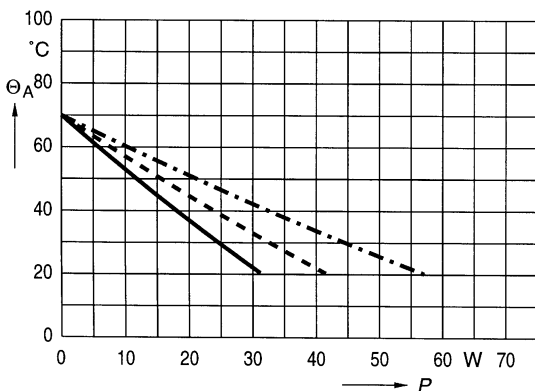
$R_S (70\ ^\circ C) = 24\ m\Omega$



Permissible ambient temperature  $\Theta_A$   
versus total power dissipation  $P$

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

black painted





# B 25 667

## Power Factor Correction and Filtering

230 Vac / 1 ph / 5,2 kvar  
MKK-230-I-05-01

Ordering code: B25667-A2317-A175

### Characteristics

$C_N$ , tol.	$1 \times 313 \mu\text{F} +10/-5 \%$
$Q_N$	5,2 kvar
$U_N$	AC 230 V
$f_N$	50 Hz
$I_N$	22,6 A
$\tan \delta_0$	$2 \cdot 10^{-4}$

### Maximum ratings

$U_{\text{max}}$	$1,1 \cdot U_N$ , 8 h daily
$I_{\text{max}}$	$1,3 \cdot I_N$
$I_s$	$200 \cdot I_N$
$(du/dt)_{\text{max}}$	10 V/ $\mu\text{s}$
$(du/dt)_s$	25 V/ $\mu\text{s}$

### Test data

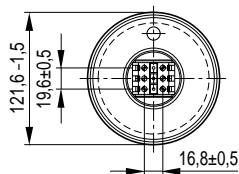
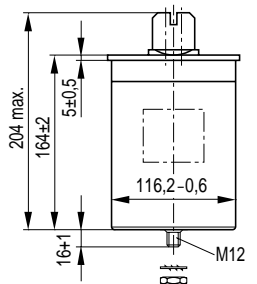
$U_{TT}$	AC 500 V, 10 s
$U_{TC}$	AC 3000 V, 50 Hz, 10 s
$\tan \delta$ (50 Hz)	$\leq 6 \cdot 10^{-4}$

### Climatic category – 25/D

$\Theta_{\text{min}}$	- 25 °C
$\Theta_{\text{max}}$	+ 55 °C
Humidity	Average relative humidity $\leq 75 \%$
$t_{LD(\text{co})}$	100000 h
$\Theta_{\text{stg}}$	- 55 to + 70 °C

### Remarks

Natural cooling  
IEC 831-1/2, EN 60831-1/2, VDE 560-46/47



KLK1397-K

### Design data

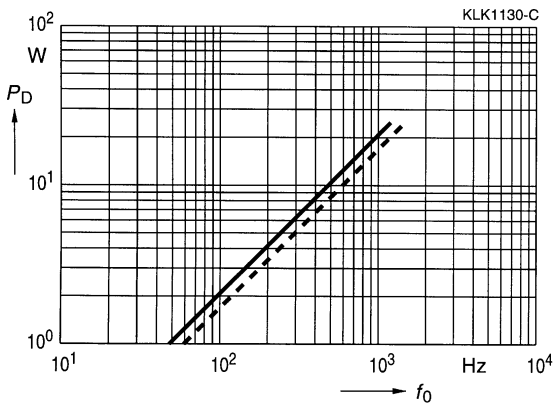
Dimensions $\varnothing \times l$	121,6 mm $\times$ 164 mm
Approx. weight	1100 g
Impregnation	Gas
Fixing	Threaded bolt M12
Mounting hole	14 mm
Max. torque	10 Nm
Terminals	Safe-to-touch terminals
Max. torque	1,2 Nm
Terminal cross section	16 mm <sup>2</sup>
Creepage distance	12,7 mm
Clearance	9,6 mm
Overpressure disconnecter	
Any mounting position	
Black painted case	

**Thermal data**

**B25667-A2317-A175**

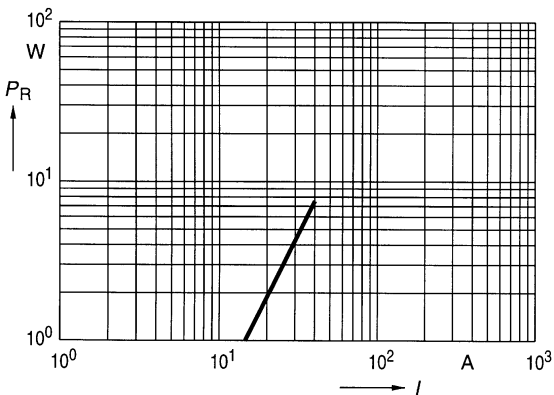
Dielectric power dissipation  $P_D$   
versus repetition frequency  $f_0$

$U_N = AC\ 230\ V$  —————  
 $0,9 \cdot U_N = AC\ 207\ V$  - - - - -



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

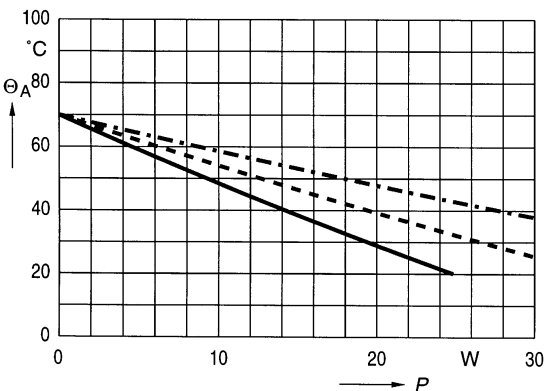
$R_S (70\ ^\circ C) = 4,7\ m\Omega$



Permissible ambient temperature  $\Theta_A$   
versus total power dissipation  $P$

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

black painted



# B 25 667

## Power Factor Correction and Filtering

400 Vac / 1 ph / 12,5 kvar  
MKK-400-I-12,5-01

Ordering code: B25667-A3247-A175

### Characteristics

$C_N$ , tol.	$1 \times 249 \mu\text{F} +10/-5 \%$
$Q_N$	12,5 kvar
$U_N$	AC 400 V
$f_N$	50 Hz
$I_N$	31,3 A
$\tan \delta_0$	$2 \cdot 10^{-4}$

### Maximum ratings

$U_{\text{max}}$	$1,1 \cdot U_N$ , 8 h daily
$I_{\text{max}}$	$1,3 \cdot I_N$
$I_s$	$200 \cdot I_N$
$(du/dt)_{\text{max}}$	14 V/ $\mu\text{s}$
$(du/dt)_s$	35 V/ $\mu\text{s}$

### Test data

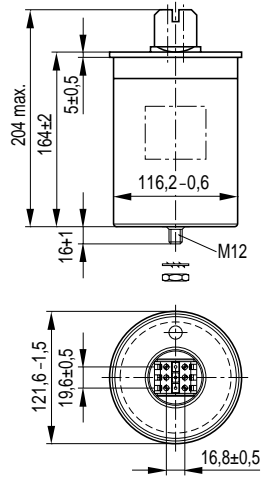
$U_{TT}$	AC 860 V, 10 s
$U_{TC}$	AC 3000 V, 50 Hz, 10 s
$\tan \delta$ (50 Hz)	$\leq 5 \cdot 10^{-4}$

### Climatic category – 25/D

$\Theta_{\text{min}}$	- 25 °C
$\Theta_{\text{max}}$	+ 55 °C
Humidity	Average relative humidity $\leq 75 \%$
$t_{LD(\text{co})}$	100000 h
$\Theta_{\text{stg}}$	- 55 to + 70 °C

### Remarks

Natural cooling  
IEC 831-1/2, EN 60831-1/2, VDE 560-46/47



### Design data

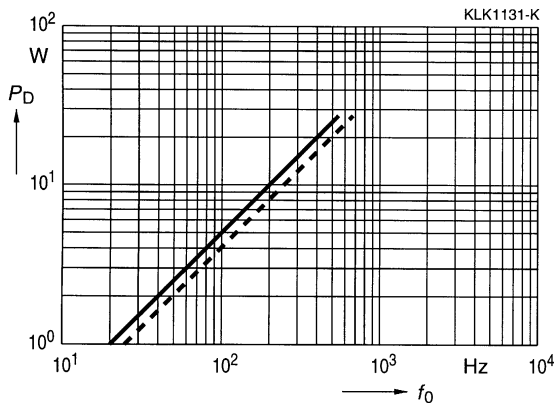
Dimensions $\varnothing \times l$	121,6 mm $\times$ 164 mm
Approx. weight	1300 g
Impregnation	Gas
Fixing	Threaded bolt M12
Mounting hole	14 mm
Max. torque	10 Nm
Terminals	Safe-to-touch terminals
Max. torque	1,2 Nm
Terminal cross section	16 mm <sup>2</sup>
Creepage distance	12,7 mm
Clearance	9,6 mm
Overpressure disconnecter	
Any mounting position	
Black painted case	

Thermal data

B25667-A3247-A175

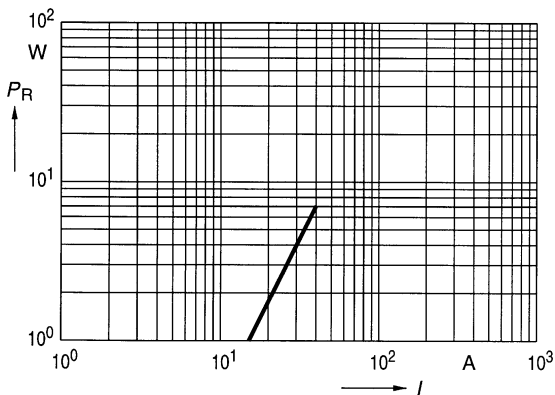
Dielectric power dissipation  $P_D$   
versus repetition frequency  $f_0$

$U_N = AC\ 400\ V$  —————  
 $0,9 \cdot U_N = AC\ 360\ V$  - - - - -



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

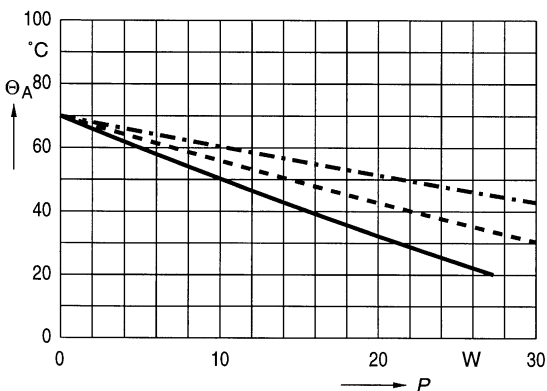
$R_S (70\ ^\circ C) = 4,4\ m\Omega$



Permissible ambient temperature  $\Theta_A$   
versus total power dissipation  $P$

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

black painted



# B 25 667

## Power Factor Correction and Filtering

525 Vac / 1 ph / 15 kvar  
 MKK-525-I-15-01

Ordering code: B25667-A5177-A175

### Characteristics

$C_N$ , tol.	$1 \times 173 \mu\text{F} +10/-5 \%$
$Q_N$	15 kvar
$U_N$	AC 525 V
$f_N$	50 Hz
$I_N$	28,5 A
$\tan \delta_0$	$2 \cdot 10^{-4}$

### Maximum ratings

$U_{\text{max}}$	$1,1 \cdot U_N$ , 8 h daily
$I_{\text{max}}$	$1,3 \cdot I_N$
$I_s$	$200 \cdot I_N$
$(du/dt)_{\text{max}}$	16 V/ $\mu\text{s}$
$(du/dt)_s$	40 V/ $\mu\text{s}$

### Test data

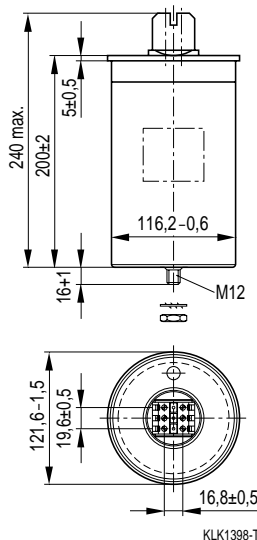
$U_{TT}$	AC 1150 V, 10 s
$U_{TC}$	AC 3000 V, 50 Hz, 10 s
$\tan \delta$ (50 Hz)	$\leq 5 \cdot 10^{-4}$

### Climatic category – 25/D

$\Theta_{\text{min}}$	- 25 °C
$\Theta_{\text{max}}$	+ 55 °C
Humidity	Average relative humidity $\leq 75 \%$
$t_{LD(\text{co})}$	100000 h
$\Theta_{\text{stg}}$	- 55 to + 70 °C

### Remarks

Natural cooling  
 IEC 831-1/2, EN 60831-1/2, VDE 560-46/47



### Design data

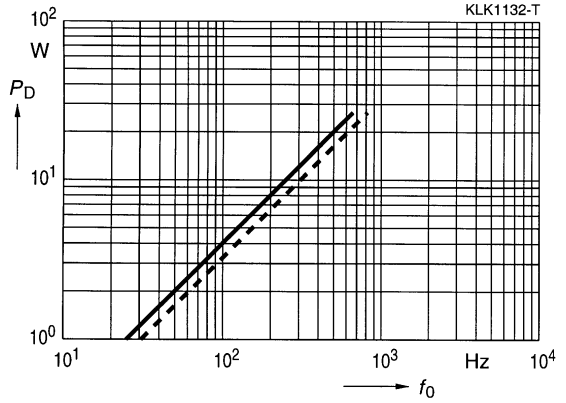
Dimensions $\varnothing \times l$	121,6 mm $\times$ 200 mm
Approx. weight	1700 g
Impregnation	Gas
Fixing	Threaded bolt M12
Mounting hole	14 mm
Max. torque	10 Nm
Terminals	Safe-to-touch terminals
Max. torque	1,2 Nm
Terminal cross section	16 mm <sup>2</sup>
Creepage distance	12,7 mm
Clearance	9,6 mm
Overpressure disconnecter	
Any mounting position	
Black painted case	

**Thermal data**

**B25667-A5177-A175**

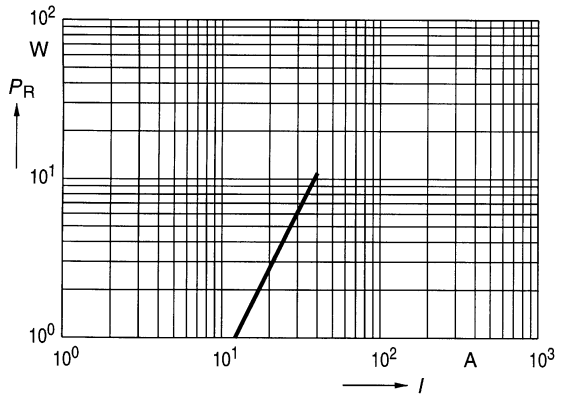
Dielectric power dissipation  $P_D$   
versus repetition frequency  $f_0$

$U_N = AC\ 525\ V$  —————  
 $0,9 \cdot U_N = AC\ 473\ V$  - - - - -



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

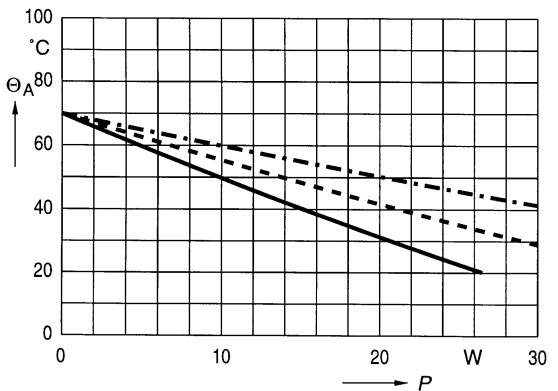
$R_S (70\ ^\circ C) = 6,8\ m\Omega$



Permissible ambient temperature  $\Theta_A$   
versus total power dissipation  $P$

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

black painted



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