

Power Capacitors

Series/Type: B25835

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product			Last Shipments
B25835M7474K007		2014-08-14	2015-03-31	2016-09-30
B25835M7224K007		2014-08-14	2015-03-31	2016-09-30
B25835M7104K007		2014-08-14	2015-03-31	2016-09-30

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Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B25835M6684K007		2014-08-14	2015-03-31	2016-09-30
B25835M6475K007		2014-08-14	2015-03-31	2016-09-30
B25835M6474K007		2014-08-14	2015-03-31	2016-09-30
B25835M6334K007		2014-08-14	2015-03-31	2016-09-30
B25835M6225K007		2014-08-14	2015-03-31	2016-09-30
B25835M6224K007		2014-08-14	2015-03-31	2016-09-30
B25835M6105K007		2014-08-14	2015-03-31	2016-09-30
B25835M2684K007		2014-08-14	2015-03-31	2016-09-30
B25835M2474K007		2014-08-14	2015-03-31	2016-09-30
B25835M2334K007		2014-08-14	2015-03-31	2016-09-30
B25835M2224K007		2014-08-14	2015-03-31	2016-09-30
B25835M2154K007		2014-08-14	2015-03-31	2016-09-30
B25835M2104K007		2014-08-14	2015-03-31	2016-09-30
B25835M1684K007		2014-08-14	2015-03-31	2016-09-30
B25835M1474K007		2014-08-14	2015-03-31	2016-09-30
B25835M1225K007		2014-08-14	2015-03-31	2016-09-30
B25835M1105K007		2014-08-14	2015-03-31	2016-09-30
B25835M0684K007		2014-08-14	2015-03-31	2016-09-30
B25835M0474K007		2014-08-14	2015-03-31	2016-09-30
B25835M0334K007		2014-08-14	2015-03-31	2016-09-30
B25835M0225K007		2014-08-14	2015-03-31	2016-09-30
B25835M0224K007		2014-08-14	2015-03-31	2016-09-30
B25835M0105K007		2014-08-14	2015-03-31	2016-09-30
B25835M0104K007		2014-08-14	2015-03-31	2016-09-30

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MKV AC Capacitors

Damping

Features

- High dielectric strength
- High peak-current capability

Applications

Especially suitable for snubber circuits

Construction

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

Terminals

Tab connector 6.3 mm

Mounting

If the vibration stress is ≤ 5 g the bolt is used for mounting.

Grounding

1-pole capacitors need not be grounded.

Overpressure disconnector (mechanical)

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

Individual data sheets

Individual data sheets contain detailed specification incl. thermal data. Upon request, these data sheets are available for each capacitor type.



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Technical data

Standards		IEC 1071-1/2
		EN 61071-1/2
		VDE 0560 part 120 and 121
Dielectric dissipation factor	tan δ_0	2 · 10-4
Capacitance tolerance		± 10%
Max. repetitive rate		î
of voltage rise	(dv/dt) _{max}	ō
Max. non-repetitive rate of voltage rise	(dv/dt) _s	
Climatic data:		
Min. operating temperature	T _{min}	– 25 °C
Max. operating temperature	T _{max}	+ 85 °C
Average relative humidity		≤ 95%
Failure quota	$\alpha_{FQ(co)}$	300 failures per 10 ⁹ component hours
Load duration	t _{LD(co)}	100 000 h
Storage temperature limit	T _{stg}	– 55/+ 85 °C
IEC climatic category (IEC 68-1 and 2)		25/085/56
Test data:		
AC test voltage between terminals	V _{TT}	1.25 x V _R , 50 Hz, 10 s (or DC 1.75 x V _R , 10 s)
Insulation resistance	R _{ins}	$C_R \leq 1 \ \mu F : \geq 10 \ 000 \ M\Omega$
Self-discharge time constant	τ =R _{ins} x C	$C_R > 1 \ \mu F$: $\geq 10 \ 000 \ s$
Dissipation factor (50 Hz)	tan δ	$\leq 3 \cdot 10^{-4}$



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Characteristics and ordering codes

C _R ¹⁾	I _{max}	î	I _s	R _S 20 °C	L _{self}	$\begin{array}{l} \text{Dimensions} \\ \text{d} \times \text{I} \end{array}$	Fig.	Appr. weight	Ordering code
μF	А	А	А	mΩ	nH	mm		g	
V _R = A	C 900	v	Ń	i = 110	0 V	v _s =	1500	V	V _{TT} = AC 1150 V, 10 s
0.22	10	90	220	15.0	110	25 × 57	1	40	B25835M6224K007
0.33	10	130	330	11.0	110	25 × 57	1	40	B25835M6334K007
0.47	10	100	250	19.0	110	25 × 57	1	40	B25835M6474K007
0.68	18	150	370	14.0	110	30 × 57	1	50	B25835M6684K007
1.00	18	220	550	10.0	110	30 × 57	1	50	B25835M6105K007
2.20	18	480	1200	6.6	110	45 × 57	1	110	B25835M6225K007
4.70	18	1000	2500	4.6	110	60 × 57	1	190	B25835M6475K007
V_{R} = AC 1400 V \hat{v} = 1800 V			v _s = 2400 V		V	V _{TT} = AC 1800 V, 10 s			
0.10	10	150	380	20.0	110	25 × 57	2	40	B25835M0104K007
0.22	10	220	550	18.0	140	25 × 70	1	50	B25835M0224K007
0.33	10	200	500	27.0	190	25 × 95	1	60	B25835M0334K007
0.47	18	280	700	20.0	190	30 × 95	1	90	B25835M0474K007
0.68	18	400	1000	15.0	190	30 × 95	1	90	B25835M0684K007
1.00	18	600	1500	12.0	190	35 × 95	1	110	B25835M0105K007
2.20	18	1300	3300	7.6	190	50 × 95	1	220	B25835M0225K007
$V_{R} = AC 1700 V$ $\hat{v} = 2100 V$ $v_{s} = 2900 V$ $V_{TT} = AC 2100 V, 10$						V _{TT} = AC 2100 V, 10 s			
0.10	10	200	500	16.0	110	25 × 57	2	40	B25835M7104K007
0.22	10	300	750	15.0	140	25 × 70	1	50	B25835M7224K007
0.47	18	660	1600	8.4	140	35 × 70	1	90	B25835M7474K007

1) Other capacitance values upon request

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MKV AC Capacitors

Damping

Characteristics and ordering codes

C _R ¹⁾	I _{max}	î	I _s	R _S 20 °C	L _{self}	$\begin{array}{l} \text{Dimensions} \\ \text{d} \times \text{I} \end{array}$	Fig.	Appr. weight	Ordering code
μF	А	А	А	mΩ	nH	mm		g	
∨ _R = A	C 2100	v	Ń	i = 260	0 V	v _s =	3600	V	V _{TT} = AC 2600 V, 10 s
0.47	18	750	1900	11.0	190	35 × 95	2	110	B25835M1474K007
0.68	18	1100	2700	8.7	190	40 × 95	1	140	B25835M1684K007
1.00	18	1600	4000	7.1	190	45 × 95	1	180	B25835M1105K007
2.20	18	1100	2800	13.0	250	60 × 131	1	440	B25835M1225K007
V _R = A	V_{R} = AC 3400 V \hat{v} = 4300 V v_{s} = 5800 V V_{TT} = AC 4300 V, 10						V _{TT} = AC 4300 V, 10 s		
0.10	18	280	700	33.0	250	35 × 131	1	150	B25835M2104K007
0.15	18	400	1000	24.0	250	35 × 131	1	150	B25835M2154K007
0.22	18	600	1500	18.0	250	35 × 131	1	150	B25835M2224K007
0.33	18	900	2300	15.0	250	50 × 131	1	300	B25835M2334K007
0.47	18	1300	3300	12.0	250	50 × 131	1	300	B25835M2474K007
0.68	18	1900	4800	11.0	250	60 × 131	1	440	B25835M2684K007

¹⁾ Other capacitance values upon request

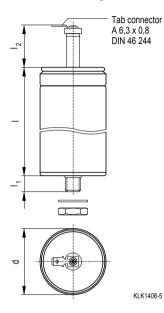
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MKV AC Capacitors

Damping

Dimensional drawing



d +0.5 -0.2	+1 -2	l ₁ +1*)	I_{2max}	Creepage	Clear-
				distance	ance
mm	mm	mm	mm	mm	mm
25	57	8	15	6	6
25	57	8	23	14	14
25	70	8	23	14	14
25	95	8	23	14	14
30	57	8	15	6	6
30	95	8	23	14	14
35	70	8	26	14	14
35	95	8	26	14	14
35	95	8	32	20	20
35	131	8	32	20	20
40	95	8	32	20	20
45	57	8	22	10	10
45	95	8	32	20	20
50	95	12	26	14	14
50	131	12	32	20	20
60	57	12	22	10	10
60	131	12	32	20	20

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

Mounting parts (included in delivery)

Threaded bolt	Max. torque	Washer	Hex nut
M8	4 Nm	A 8.4 DIN 125-Ms	M 8 DIN 439
M12	10 Nm	A 13 DIN 125-Ms	M12 DIN 439



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Cautions and warnings

Safety

- In case of dents of more than 1 mm depth or any other mechanical damage, capacitors must not be used at all. This applies also in cases of oil leakage.
- Electrical or mechanical misapplication of capacitors may be hazardous. Personal injury or property damage may result from bursting of the capacitor or from expulsion of oil or melted material due to mechanical disruption of the capacitor.
- Ensure good, effective grounding for capacitor enclosures.
- Observe appropriate safety precautions during operation (self-recharging phenomena and the high energy contained in capacitors).
- Handle capacitors carefully, because they may still be charged even after disconnection.
- The terminals of capacitors, connected bus bars and cables as well as other devices may also be energized.
- Follow good engineering practice.
- Failure to follow cautions may result, worst case, in premature failures, bursting and fire.

Thermal load

After installation of the capacitor it is necessary to verify that maximum hot-spot temperature is not exceeded at extreme service conditions (see www.epcos.com/thermal_design).

Mechanical protection

The capacitor has to be installed in a way that mechanical damages and dents in the aluminum can are avoided.

Storage and operating conditions

Do not use or store capacitors in corrosive atmosphere especially where chloride gas, sulfide gas, acid, alkali, salt or the like are present. In dusty environments, regular maintenance and cleaning especially of the terminals is required to avoid conductive path between phases and/or phases and ground.

Overpressure disconnector

To ensure full functionality of an overpressure disconnector, the following must be observed:

- The elastic elements must not be hindered, i.e.
 - connecting lines must be flexible leads (cables),
 - there must be sufficient space (minimum 12 mm) above the connections for expansion of the overpressure disconnector,
 - folding crimps must not be retained by clamps.
- Stress parameters of the capacitor must be within the IEC61071 specification.

Service life expectancy

Electrical components do not have an unlimited service life expectancy; this applies to self-healing capacitors too. The maximum service life expectancy may vary depending on the application the capacitor is used in.

09/05



Important notes

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