

Run capacitors are capacitors designed for continuous connection to alternating current (AC) motors. Run capacitors are used for single-phase motors and three-phase motors connected to single-phase supply. These capacitors are used to improve the $\cos(\phi)$ during normal operation.

For single phase motors, capacitors are used to maintain the magnetic field. For single-phase motors connected to three-phase motors, the capacitor creates the motor's third phase.

We stock high quality capacitors made by Comar in standard versions in the range 1 – 100 UF



Typical applications

Run capacitors are used for single-phase AC motors for many applications.

Examples of typical applications are fan systems, radon gas vacuums, dehumidifiers, smaller pumps, heat pumps, floor grinders, concrete mixers, etc.

Properties

Run capacitors are used to improve the $\cos(\phi)$ during normal operation and should be continuously connected. Standard types are made in plastic casings.

For single phase motors, capacitors are used to maintain the magnetic field. For single-phase motors connected to three-phase motors, capacitors create the motor's third phase.

- Compliant with norm EN60252-1
- Manufactured for 50 and 60 Hz
- Standard version type MKA 450 VAC with 250 mm cable and M8 mounting bolt is held in stock
- Connection with cable or flat pin
- Some types can be ordered in UL-approved versions

Composition

The capacitors are made of self-healing, metalized polypropylene film that is wound up to the desired capacitance. Coated with metal at both ends, the coil is connected to the capacitor's mounting cable or flat pin depending on the version. The coil is then moulded into the casing and insulated with a mounting bolt whilst the coil is securely fixed into position.

Capacitors are dry and have no actual expiration date. Casings are in plastic of the self extinguishing material type 2.

Version/Capacitance/Dimensions

For specific item stocked capacitors see the item list that follows. For other capacitances and/or versions other than those listed, please contact BEVI for further information or a quotation.

We offer run capacitors in the range 1– 100 UF. For some applications, capacitors with high values are connected. Capacitors can be parallel connected to attain the correct capacitance. The total capacitance is calculated by adding the value of the parallel connected capacitors. When capacitors are parallel connected, their values should be as similar as possible to attain the best performance. Manufacturer's recommendations should always be followed when sizing capacitors.

For exact dimensioning, the manufacturer's recommendations must always be followed. As a guide to the approximate general dimensions, please refer to information "rules of thumb for the dimensioning of run/start capacitors" found in BEVI's website.

Packaging

Version type MKA 450 VAC with 250 mm long double insulated connecting cable with mounting bolt (M8) are available directly from our stock.

These capacitors are manufactured from 1 μF up to 100 μF .

Technical data

Type	Voltage/ Frequency (V/Hz)	Capacitance (μF)	Casing	Function- class (h)	Max. temp ($^{\circ}\text{C}$)	Connection	Mounting	Approvals
MKA	450/50-60 Hz	1–100 ± 5 %	Plastic Self exting. V2	400V-B 10 000 h 450V-C 3 000 h	85	250 mm double insul. cable	M8	VDE, EN60252-1 (for 1–45 μF)
MKA-UL	450/50-60 Hz	1–100 ± 5 %	Plastic Self exting. V2	400V-B 10 000 h 450V-C 3 000 h	85	Diff. cable.con/ Flat pin	M8/ Flat botten	UL
MK	450/50-60 Hz	1–80 ± 5 %	Plastic Self exting. V22	420V-A 30 000 h 450V-B 10 000 h	85	Diff. cable.con/ Flat pin	M8/ Flat botten	VDE, EN60252-1 (for 1–45 μF)

Item list MKA and MK run capacitors

Item no.	Voltage type (V)	Capacitance (µF)	Execution *	Mounting bolt	Dimension, Ø × H (mm)
125795	MKA-450 V	1	K-250 mm	M8	25 × 57
126258	MKA-450 V	1,5	K-250 mm	M8	25 × 57
125799	MKA-450 V	2	K-250 mm	M8	25 × 57
125801	MKA-450 V	2,5	K-250 mm	M8	25 × 57
125803	MKA-450 V	3	K-250 mm	M8	25 × 57
125804	MKA-450 V	3,15	K-250 mm	M8	25 × 57
125806	MKA-450 V	4	K-250 mm	M8	25 × 57
125807	MKA-450 V	5	K-250 mm	M8	30 × 57
125808	MKA-450 V	6	K-250 mm	M8	30 × 57
125809	MKA-450 V	6,3	K-250 mm	M8	30 × 57
125811	MKA-450 V	8	K-250 mm	M8	30 × 70
125810	MKA-450 V	7	K-250 mm	M8	30 × 57
125812	MKA-450 V	10	K-250 mm	M8	30 × 70
125813	MKA-450 V	12	K-250 mm	M8	35 × 70
125814	MKA-450 V	12,5	K-250 mm	M8	35 × 70
125815	MKA-450 V	14	K-250 mm	M8	35 × 70
125816	MKA-450 V	15	K-250 mm	M8	40 × 70
125817	MKA-450 V	16	K-250 mm	M8	40 × 70
125818	MKA-450 V	18	K-250 mm	M8	40 × 70
125819	MKA-450 V	20	K-250 mm	M8	40 × 70
125820	MKA-450 V	25	K-250 mm	M8	40 × 94
125821	MKA-450 V	30	K-250 mm	M8	40 × 94
125822	MKA-450 V	35	K-250 mm	M8	45 × 94
125823	MKA-450 V	40	K-250 mm	M8	45 × 94
125824	MKA-450 V	45	K-250 mm	M8	50 × 94
125825	MKA-450 V	50	K-250 mm	M8	50 × 94
125826	MKA-450 V	60	K-250 mm	M8	50 × 120
125827	MKA-450 V	70	K-250 mm	M8	50 × 120
125828	MKA-450 V	80	K-250 mm	M8	50 × 120
125829	MKA-450 V	100	K-250 mm	M8	55 × 120
125830	MK-450 V	1	FD 63 mm	M8	30 × 57
125832	MK-450 V	2	K-250 mm	M8	30 × 57
125833	MK-450 V	3	K-250 mm	M8	30 × 57
125834	MK-450 V	4	K-250 mm	M8	30 × 57
125835	MK-450 V	5	K-250 mm	M8	30 × 57
125837	MK-450 V	6,3	K-250 mm	M8	30 × 70
126214	MK-450 V	8	K-250 mm	M8	30 × 70
-	MK-450 V	10	K-250 mm	M8	30 × 70
125838	MK-450 V	12,5	K-250 mm	M8	30 × 70
125841	MK-450 V	20	K-250 mm	M8	40 × 94
126436	MK-450 V	25	K-250 mm	M8	45 × 94
-	MK-450 V	30	K-250 mm	M8	45 × 94
-	MK-450 V	40	K-250 mm	M8	50 × 94
-	MK-450 V	50	K-250 mm	M8	50 × 120

* Execution : K=double insulated cable, FD= Double flat pin



How to contact BEVI

Contact details for all countries are continually updated on our website.
Please visit www.bevi.com to access the information direct.

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