

83% of the cases of malfunction of the tubular motor for curtains are caused by the **failure of the starting capacitor** due to high temperatures*

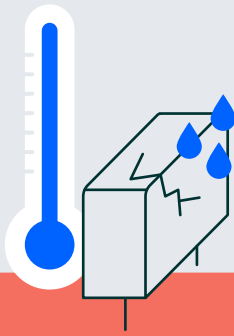
* according to market survey of service repair reports

Buzzing, not spinning!

Malfunction of the tubular motor is the most frequent breakdown of automated blinds. The motor makes a humming sound, but does not rotate.

Why is this happening?

One of the features of the tubular engine is its rapid heating to 70 degrees and above. In the presence of a high load (heavy curtains, blinds, tight drive parts, etc.), the **heating temperature can exceed 100 degrees**. This mode of operation leads to the loss of the properties of the starting capacitor and their failure.



When blinds fail, buyers complain to the manufacturers of blinds, and they are forced to change the supplier of motors in order to preserve their reputation.

What is the culprit?

Most often the failure happens due to the loss of the properties of materials, namely metalized film. Many capacitor manufacturers, in an effort to save money, use **low-quality raw materials** that are not suitable for use at high temperatures.

The use of such materials causes moisture penetration, which causes **electro corrosion of the metalized film** and a drop (weakening) of the capacity. At the testing stages, a capacitor made from such raw materials gives the required parameters, however, when working at high temperatures, the capacitor fails.

We have developed capacitors that are ideally suited for the working conditions of tubular motors



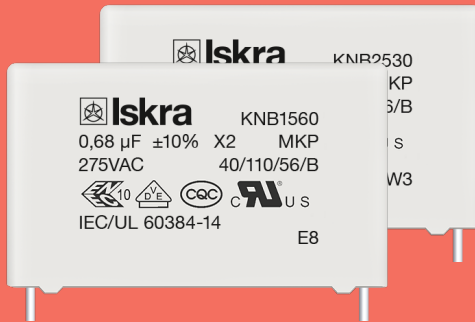
Our capacitors have a very stable capacitance over long operational life – more than **45.000 hours!**

The production of ISKRA capacitors is 100% located in Slovenia (EU), only **the best raw materials are used**, and the products meet European quality standards. We also have a company and warehouse in Hong Kong and can conveniently work with tubular motor manufacturers located in China.

In addition, Iskra has **its own production of metalized film**, which allows you to control its quality at all stages. Our own production of raw materials **significantly reduces delivery time** of capacitors to customers.

We only use **HC BOPP** – High Crystalline Bioriented Polypropylene and **HD BOPP** – High-Density Biaxially- Oriented Polyethylene. The technology used is self-healing metalized coils in dry design. The filling is made with EPO seal, which provides even better climate protection. We use high quality plastic material for housing, plasma treated prior assembly, to prevent moisture intrusion. Special alloy and profile is used for metalized layer, together with high quality epoxy resin.

ISKRA capacitors are ideal for a new generation of particularly quiet electric motors for driving blinds, awnings and lamella curtains in smart homes.



We offer 5 standard types of capacitors for motors for blinds:

- KNB 1560
- KNB 2530
- KNM 1225
- KNM 1228
- KNM 2228

Capacitors comply with IEC 60252-1: 2013 and the special test requirements for ACTUATOR CAPACITORS QUALIFICATION TEST QASP DOC014307 008 (Immersion resistance test, Test under voltage, Capacitor marking resistance test).

Why ISKRA

- 76 years of experience in motor run capacitors
- 11% of total production volume are capacitors for tubular motors
- We produce 87 million capacitors annually
- 100% of production in Slovenia (EU), with a subsidiary and own warehouse in China

Quality

- Certificates EN 60252-1 and C22.2 No. 190-M1985
- Own manufacture of metalized film and quality control at all stages of production
- Minimum noise level (suitable for a new generation of particularly quiet electric motors)
- No danger of electrical shock in case of breakdown
- Capacitors are approved by various manufacturers of motors for blinds
- Can be used in parallel or serial connection with the supply mains
- Resistance to soldering heat: IEC 60068-2-20, 260 °C ±5 °C, 10 s ±1 s
- Peak pulse voltage in service up to 2.5 kV

Payment conditions

- Lead time from 4 to 6 weeks
- Delay of payment – 60 days

With years of experience in developing exclusive models for top global brands from sketch to finished product.

Join the list of our satisfied clients:

BOSCH Miele SIEMENS somfy



ISKRA d.o.o BU Capacitors
Vajdova ulica 71
SI-8333 Semič
Slovenia, EU



iskra.eu