

LEGAL ASPECTS of Capacitors **Supplies – Part 1**

ZEZ SILKO manufactures and supplies a wide range of PP film capacitors

LV PFC capacitors



MV capacitors



Power Electronics Capacitors



Induction heating caps



Energy storage caps



Reactors

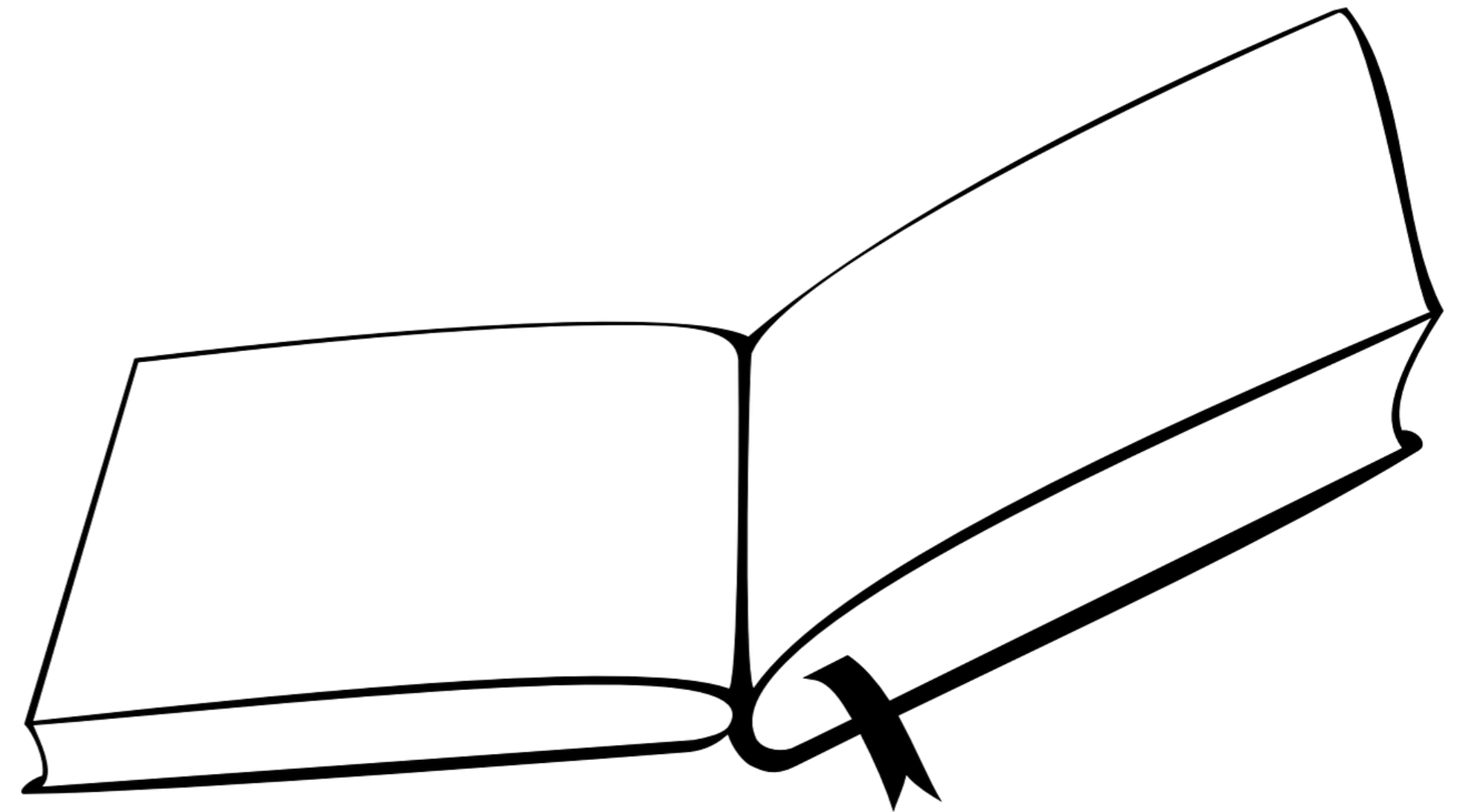


Capacitor banks



CONTENTS

- ✓ Dual-use goods – Part 1
- ✓ Dangerous goods (ADR) – Part 2



Dual-use goods definition:

- ✓ Dual-use goods are goods that can be used for both the **civilian and the military** purposes.
- ✓ Usually dual-use goods are explained as the good that can have more than one purpose at the same time, e.g. Global Positioning System (GPS).



Dual-use goods examples:

- ✓ Chemicals
- ✓ Machinery
- ✓ Carbon fiber
- ✓ Aluminum alloy
- ✓ UAV (drones)
- ✓ **Capacitors**



Dual-use goods evaluation:

- ✓ Country of destination (EU or non EU)
- ✓ HS code
- ✓ Description
- ✓ Consignee
- ✓ Origin



Dual-use goods specification:

1) 3A001e High energy storage capacitors

A) Capacitors with a repetition rate of less than 10 Hz (single shot capacitors)

- ✓ voltage rating equal to or more than 5 kV
- ✓ energy density equal to or more than 250 J/kg
- ✓ total energy equal to or more than 25 kJ

B) Capacitors with a repetition rate of 10 Hz or more (repetition rated capacitors)

- ✓ voltage rating equal to or more than 5 kV
- ✓ energy density equal to or more than 50 J/kg
- ✓ total energy equal to or more than 100 J
- ✓ charge/discharge cycle life equal to or more than 10 000



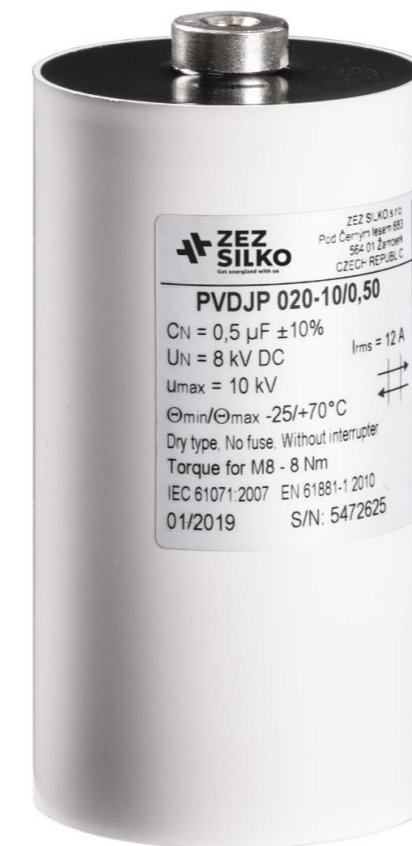
Dual-use goods specification:

2) 3A201 Electronic parts and components other than 3A001

Capacitors having either of the following sets of characteristics

A)

- ✓ voltage rating greater than 1.4 kV
- ✓ energy storage greater than 10 J
- ✓ capacitance greater than 0,5 μF
- ✓ series inductance less than 50 nH



B)

- ✓ voltage rating greater than 750 V
- ✓ capacitance greater than 0,25 μF
- ✓ series inductance less than 10 nH



ZEZ SILKO advantages

- ✓ 90 years of capacitor production
- ✓ Experienced technical support
- ✓ Tailor made solution
- ✓ Flexibility
- ✓ High quality
- ✓ Full range of products
- ✓ Short delivery time






Thank you very much for your attention!

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