



# VK-KM-04 DISCHARGE DEVICE USER MANUAL



## 1. APPLICATION

The discharge device can be used in networks with a frequency of AC 50/60 Hz, where the nominal voltage must be in the range of 230-600 V max. The device is only suitable for discharging 3-phase capacitors after they have been disconnected from the supply network! It is NOT allowed to connect to a live network!

## 2. OPERATION ENVIRONMENT

Operating temperature: between -5 ~ + 40 degree Celsius.

Use in places where there is no explosive medium in the air! It does not cause a corrosive effect on metals. It can not damage insulating materials and it does not contain conductive dust.

The device is built into a plastic case with IP65 protection, which enables safe use in light rain or drizzle - according to the Low Voltage Work Execution Conditions.

## 3. WORKING METHOD OF THE DEVICE

The discharge device contains an inductive/resistive element, which is connected to the capacitor by a 63 A power switch.

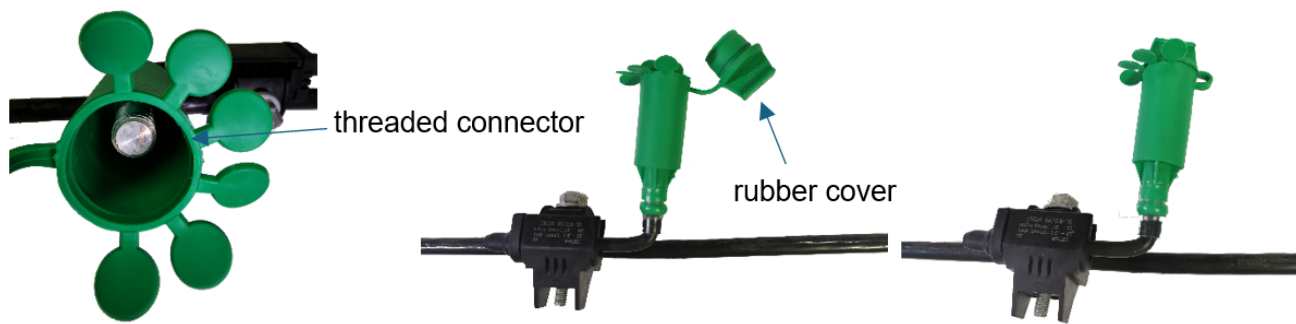
The device is suitable for discharging capacitors with a maximum reactive power of 50 kVAh. It discharges a capacitor below 50 V in less than 20 seconds. Capacitor with smaller value is discharged quicker than 20 seconds.



## 4. USING THE DEVICE

**Carring out tasks with this device is classified as working under voltage, therefore the following operations must be carried out in accordance with the regulations of the GKM Decree Annex 21/2023 (VIII. 30), the Low Voltage Work Execution Conditions, with the appropriate authorization!**

1. The integrity of the connecting handles and cables must be visually checked before each use! **DO NOT use the device in case of ANY visible damage!**
2. The insulated grips must be screwed onto the threaded connector (fig. 1) located in the piercing connector pipe that remains on the wires of the capacitor after disconnection, while the rotary switch is in the "OFF" position (i.e. switched off).



1. As a next step, the contacts of the connecting handles must be checked mechanically. If those are OK, turn the main switch to the "ON" position- therefore the discharge module is connected to the capacitor.

2. The device will reduce the voltage of the capacitor to 0 V in 30 seconds. Wait 60 seconds to make sure the complete discharge. Then check the voltage on the capacitor terminals with a probe or multimeter. If it is 0 V, the discharge can be considered complete and can be removed by unscrewing the handles after switching the device to "OFF" position.

## 5. MAINTENANCE

The device does not require any special maintenance. Protect from heavy dust and dirt and clean regularly. If any unexpected event occurs (damage, drop, etc.), it must be sent to the manufacturer for inspection. Damage to the seal voids the 2 years warranty! Mandatory periodic inspection every 12 months using the methods specified by the manufacturer at the premises of Villbek Kft. The device may only be repaired by the manufacturer.

Manufacturer and service:  
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