



EKTOS

Vacuum switch disconnector

intelligent medium voltage vacuum switch disconnector is designed for operating in three-phase alternating current networks at a rated voltage of up to 24kV and a frequency of 50 Hz in distribution power networks.

EKTOS switch disconnector is:

- intelligent, designed to work in Smart Grid networks vacuum-insulated
- small-sized
- metal-shielded
- equipped with an ultra-fast drive compatible with any controller
- equipped with an intelligent controller managing the operation of the switch
- provided with a DOL system
- equipped with a system for measuring and monitoring line temperature
- equipped with wireless active voltage and current transformers
- safe
- reliable

Advantages of **EKTOS** disconnectors:

- designed for use in Smart Grid networks with particular emphasis on FDIR network
- environmentally safe does not contain SF6
- safe for distribution networks does not generate switching overvoltage
- safe for control and communication devices does not generate EMC interference.
- Resistant to EMC interference.
- Weatherproof construction
- ▶ High corrosion and weather resistance
- Easy operation and maintenance thanks to top-quality components
- Reliability due to the use of vacuum chambers
- ▶ High operation safety through remote monitoring

TECHNICAL PARAMETERS

Rated voltage	24 kV
Rated frequency	50 Hz
Power frequency withstand voltage	50 kV
- to the ground and interphase	
Power frequency withstand voltage	60 kV
- safe isolation gap	
Lightning impulse withstand voltage (1.2/50 μs)	125 kV
- to Earth and betweeb phases	
Lightning impulse withstand voltage (1.2/50 μs)	145 kV
- across the isolating distance	
Rated normal current	800 A
Rated short-time withstand current	20 kA (3 s)
Short circuit current	40 kA
Short-circuit making current	50 kA
Line-charging breaking current	50 A
Cable-charging breaking current	50 A
Earth fault breaking current	50 A
Cable charging breaking currant under Earth fault conditions	28A
Creepage distance	620 mm
Mechanical class	M2
Number of operations for a short-circuit feeding voltage	5 (40kA, CL E3)
Dimensions: Width: 550 mm Depth: 890 mm Height: 470 mm	

PN-EN 62271-103:2011 - High-voltage switchgear and control equipment -

Part 103: Switch disconnectors with a rated voltage higher than 1 kV up to and including 52 kV

PN-EN 62271-1:2009+A1:2011 - High-voltage switchgear and control apparatus -

Part 1: Common provisions

- PN-EN 62271-102:2005; PN-EN 62271-102:2005/A1:2011 High voltage switchgear and control apparatus.
- **Part 102:** High-voltage alternating current disconnectors and earthing switches.
- ▶ PN-EN 60529:2003 Degrees of protection provided by housings (IP code)
 - **Q** ul. Elewatorska 17/1, 15-620 Białystok
 - **4** +48 85 662 75 27



Promotion of entrepreneurship and increasing investment attractiveness of the voivodship in the context of measure 1.4.1
Regional Operational Programme for Podlaskie Voivodship for the years 2014 – 2020 Strengthening the capacity and competitiveness of the region's economy.







