





*Innovative Power Engineering at its best!*

**HUGHES**  
POWER SYSTEM

# HIGH VOLTAGE VACUUM CIRCUIT BREAKER

for 72 kV, 1-2-3 pole gang operation.



-  High quality mechanical parts;
-  Low life cycle cost;
-  High level of insulation;
-  Solid insulated. No gas;
-  Silicone insulators;
-  Vacuum interrupter;

## DESCRIPTION

The **OVX720** is a specially designed solid insulated vacuum circuit breaker modularized in 1-2-3 pole configurations.

For railway feeder stations it comes with 1 & 2 poles construction, and with 3 poles for electrical transmission system.

The product has extremely high mechanical endurance and outstanding electrical parameters with solid insulation and with high performance vacuum interrupters. This combination provides highly reliable maintenance free products with low life cycle costs.

Gas free product, environmentally friendly.

**MADE IN SWEDEN**

OVX720\_PR01A EN.PDF

TECHNICAL DATA	OVX 721	OVX 722	OVX 723
Type	circuit breaker	circuit breaker	circuit breaker
Rated frequency	50/60 Hz	50/60 Hz	50/60 Hz
Operating voltage (phase to ground)	42 kV	42 kV	
Operation voltage (phase to phase)			72 kV
Rated power frequency withstand voltage (50 Hz/1 min)	140 kV	140 kV	140 kV
Lightning impulse withstand voltage (1.2/50 $\mu$ s)	325 kV	325 kV	325 kV
Rated current	2500 A	2500 A	2500 A
Rated short-circuit breaking current	31.5 kA	31.5 kA	31.5 kA
Rated short-circuit making current	80 kA	80 kA	80 kA
Short circuit withstand current	31.5 kA/3 s	31.5 kA/3 s	31.5 kA/3 s
Operation mechanism	Stored energy	Stored energy	Stored energy
Number of poles	1	2	3
Opening time	$\leq 17$ ms	$\leq 22$ ms	$\leq 22$ ms
Closing time	$\leq 60$ ms	$\leq 60$ ms	$\leq 65$ ms
Insulators	Polymeric	Polymeric	Polymeric
Operating class (IEC 62271-100)	E2	E2	E2
Height x Length x Width	1990 x 840 x 620 per module		
Operation voltage	24 VDC, 110 VDC, 220 VAC		
Drive voltage	24 VDC, 110 VDC, 220 VAC		

## CHARACTERISTICS

- Solid insulated;
- 72.5 kV 3-phase;
- 40 kV single or double pole;
- 2500 A, 31.5 kA;
- 365 kV BIL;
- 140 kV PF@ 50 Hz;

## KEY FEATURES

- Stored energy mechanical actuator;
- Solutions for 1-phase, 2-phase, 3-phase systems;
- Vacuum interrupter enclosed in a solid insulation with silicone surface;
- Anti-vandalism poles fitted with polymeric insulators as standard;

Hughes Power System is a Swedish manufacturer of medium voltage switch gear products and reclosers for overhead, underground lines and substations. Very high quality standards together with innovative approach result in an advanced range of products, aiming to improve electrical distribution network quality by minimizing the number and duration of faults.

Product portfolio includes:

- Reclosers
- Vacuum interrupter switches
- Disconnectors
- Motor drives
- Voltage transformers
- D/C power supplies

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