

CATALOGUE

TYP QDS 7,2 - 25 kV

Unsere Handelsvertretung in Deutschland



ISO 9001:2009 ISO 14001:2005



GENERAL INFORMATION

The QDS disconnector switches (load break switches) are switching devices used to switch electrical circuits in load operating state. They find usage in switchgear cabinets and MV switching stations of indoor type.

STANDARDS AND REGULATIONS

The QDS conform with the following standards and regulations ČSN 62271-103, ČSN EN 62271-1, ČSN EN 62 271-102

SPECIFICATION		
Rated voltage	7,2 – 25 kV	
Rated current	400 – 2000 A	
Rated shorttime current 1s (3s)	16 – 40 kA	
Rated dynamic current	40 – 100 kA	
Rated short-circuit making current	12,5 kA	
Rated mainly active load-breaking current	630 A	
Rated closed-loop breaking current	400 A	
Rated no-load transformer breaking current	4 A	
Rated frequency	50 Hz	
Mechanical endurance	2000 C-O	
Drive type	Hand drive, Hand drive via gearbox, motor drive 12V DC, 24V DC, 48V DC, 60V DC, 110V DC, 220V DC, 230V AC,	
Motor type	12V DC, 24V DC, 48V DC, 60V DC, 110V DC, 220V DC, 230V AC, 400V AC	
Signaling positions	Limit switches per position, placed direct on main device shaft Auxiliary cam-switch (high switch capacity)	
Insulators type	Epoxy resin	
Design, number of poles, accessories	upon request	

OPERATING CONDITIONS

The QDS disconnector switches (load break switches) are designed as indoor switching devices and intended to be operated in normal operating conditions as specified by the ČSN 62271-103, ČSN EN 62271-1, ČSN EN 62 271-102 standards.

Highest ambient temperature + 40°C Lowest ambient temperature - 15°C (-45°C) Altitude up to 1000 m above sea level Average level of relative humidity over a period of 24 hours: not to exceed 95%

DESCRIPTION AND OPERATION

The QDS disconnector switches (load break switches) are of light-weight and, at the same time, rigid design.

The contact system equipped with quenching chambers provides for safe and proper switching during the whole service life of the switching device.

The arc quenching occurs under an insulation cover which provides for an instantaneous making and breaking of the circuit.

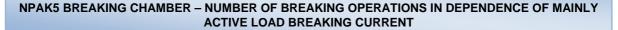
The arc arising inside of the quenching chamber is eliminated by using special gases that appear on a special thin plastic plate as a result of the heat effects of the arc. Special design of the arcing contact prevents the contacts to be welded together. This design is registered (trademarked) and it is able to sustain a high number of making operations.

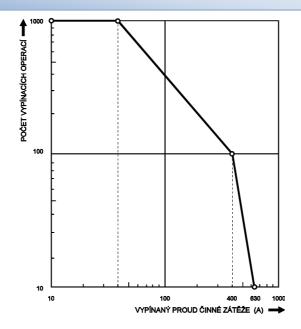
WARRANTY PERIOD

By default the warranty period for the switching devices is 2 years.

Excluded from the warranty are occurrences of intentional mechanical damage (vandalism, natural hazards), the use of incorrect assembly procedures and operation of the device out of the guaranteed parameter range.

During the warranty period some changes in the surface finish may appear on the device, however without affect to its functionality.





TRANSPORT, STORAGE, ASSEMBLY AND OPERATION

The QDS disconnector switches (load break switches) are supplied individually as completely assembled devices, aligned and adjusted by the manufacturer. The dispatch takes place on wooden pallets

The transport, storage, assembly and maintenance of the QDS disconnector switches must be done in accordance with directions contained in the accompanying documents, supplied along with the switching device. Careful and professional installation is one of the essential prerequisites for a defect-free operation of the switching device.

The accompanying documents include:

- certificate of quality and completeness
- packing, transport and storage instructions
- assembly procedures, completed with dimensional sketches of the corresponding disconnectors, wiring diagrams and emergency control data
- maintenance instructions to be conducted on regular basis

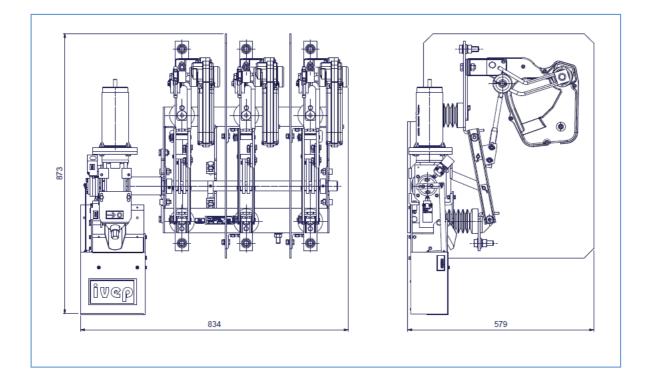
The handling and lifting of the switching devices does not require the use of special lifting equipment. During the manipulation the disconnector is to be taken up by the supporting frame. By no means it is allowed to lift the disconnector by taking it up at the insulators, current-carrying parts or the shaft.

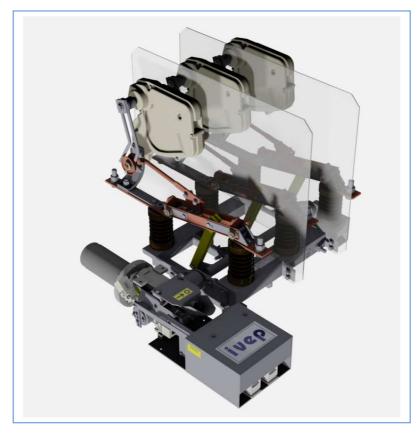
TYPE DESIGNATION CODING OF THE QDS DISCONNECTOR SWITCH (LOAD BREAK SWITCH)

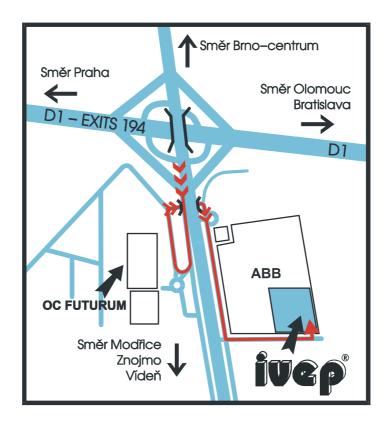
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- basic design	QDS
7,2 – 25kV	7,2 - 25
Rated voltage	
400 – 2000 A	400 - 2000
Rated current	
16 kA	16/1 (3)
20 kA	20/1 (3)
25 kA	25/1 (3)
Rated short-time current/rated 31,5 kA	31/1 (3)
duration of short circuit 40 kA	40/1 (3)
The disconnector switch shaft extension	
- to the left :	L
- to the right:	P
drive of disconnectory awitch	
- drive of disconnector: switch	
- – without drive – hand drive	-
	R
- motor drive:	
- 3 PEN 50 Hz 400 V	1
- 110 V DC	2
- 220 V DC	3
- 230 V AC (220 V DC+usměrňovač (rectifier)	4
- 24 V DC	5
- 48 V DC	6
- 60 V DC	7
- 125 V DC	8
11C-11O-2P	11
7C-7O-2P	7
Indication switch contacts of 0	-
devices (eg.)	
Implementation of motor F- a drive mechanism a	and indication elements mounted separately
drive of QDS disconnector on both sides of the	frame
	sm and indication elements mounted on the
same side	
	ular displacement of the drive as necessary
	ector width (pro 25 kV F= 275 mm)
Hand drive or other solution: - (e.g. void)	
Pole centre distance in mm/ number of poles:	
- single-pole	0/1
mm	- upon request
– sample code:	

QDS 25.630.25/1.L.2.7.FE.300/3

INDOOR DISCONNECTOR SWITCH TYPE QDS WITH INSULATING BARRIERS









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