

Outdoor load disconnectors for insulated power lines Fla 15/60 IZV Fla 15/97 IZV

three-pole design
rated voltage 25 kV
rated current 400 and 630 A



DRIBO, spol. s r.o.

Pražákova 36
619 00 Brno
Czech Republic

Tel.: +420 533 101 111, Fax: +420 543 216 619, E-mail: dribo@dribo.cz, Internet: <http://www.dribo.eu>

ISO 9001
ISO 14001
BUREAU VERITAS
Certification



Outdoor load disconnectors for insulated power lines

The Fla 15/60 IZV and Fla 15/97 IZV load disconnectors of 500 mm phase pitch supplement the overhead, insulated power lines project with a highly reliable switching element which makes it possible to maintain the narrowed line profile along its whole length, i.e. also at the switching point. The load disconnectors are derived from the Fla 15/60 and Fla 15/97 series of load disconnectors that have proven their capability over long-term period of operation. The load disconnectors are designed as a superstructure for mounting on the conventional type of console and to be used for insulated IZV power lines. The load disconnectors are equipped with ancillary supporting insulators with incoming terminals to fix the movable incoming band conductors to them.

The load disconnectors are operated by one manual or electrically operated drive mechanism. These drives have proven their operation reliability during long periods of load disconnector handling.

Load disconnectors satisfy standards EN 62271-1, EN 62271-103. Used insulators satisfy the fourth grade of contamination area.

Simple load disconnectors of a sturdy structure proved themselves in an excellent way under very different climatic conditions.

The basic welded frame is made of open steel profiles that guarantee perfect surface protection from corrosion caused by heat zinc coating that can be controlled on all places. Heat zinc coating

The short-circuit resistance performance is met with a high margin. The well-proven design of the load disconnectors, the quality of material used and the elaborate production provides for low operation and maintenance costs.

Under normal operating conditions it is not necessary for the load disconnectors to undergo a preventive maintenance during the period of twenty years for hand operated devices and ten years for motor operated devices (remote control).

protects the shafts of the load disconnectors mounted in bronze bearings as well as all other steel components.

Fla 15/60 switching takes place in a tightly closed extinguishing chamber filled with SHELL transformer oil. The Fla 15/97 load disconnectors are equipped with vacuum quenching chambers.

No combustion gases are released into the air. Therefore, the load disconnectors meet the most severe environmental requirements.

All current-carrying parts of the load disconnectors are made of galvanically silver coated electrolytical copper. The cross-section of current-carrying parts is dimensioned in an adequate way. The favourable level of contact pressure of stainless steel springs is one of the prerequisites for a defect-free switching, even after many years of operation of the disconnector in the most severe operating conditions and also in ice-accretion conditions. The load disconnectors are supplied with insulators made of cyclo-aliphatic resin.

The load disconnectors can be provided with encased auxiliary switches (IP 44 protection) installed directly on the frame of the device ensuring thus reliable switching-on and switching-off signalling. Through this arrangement the high reliability of indication of making and breaking operations is guaranteed, giving the operator the possibility of remote control.

Technical data

			Fla 15/60 IZV	Fla 15/97 IZV
rated voltage	U_r	kV	25	25
rated current	I_r	A	400 / 630	400 / 630
rated short-time current	I_k	kA	20	16
rated peak withstand current	I_p	kA	50	40
rated making current	I_{ma}	kA ¹⁾	18	25
rated breaking current – $\cos \phi 0,7$	I_{load}	A	630	630
rated breaking current of closed loop	I_{loop}	A	400	630
rated breaking current of unloaded transformer	I_{nltr}	A	53	
rated breaking current of no-load cable and power line	I_{cc}	A	20	25
rated breaking current of the earth fault	I_{ef1}	A	56	200

¹⁾ At a sufficiently quick hand control.

Withstand voltages

rated voltage	kV	25
rated short-time withstand power frequency voltage / 1min. to be applied in both dry and wet environmental conditions		
against the earth, across the poles and between disconnected contacts	kV	50
across the isolating distance	kV	60
rated lightning pulse withstand voltage		
against the earth, across the poles and between disconnected contacts	kV	125
across the isolating distance	kV	145

Type Fla 15/60 IZV

