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DRIESCHER
Switch disconnector
FLc GB N

• Rated voltage 38.5 kV
• Rated current 630 A

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General

Outdoor design, switch disconnectors of FLc GB N, series were developed by DRIESCHER as a design version of the DRIESCHER FLc switch disconnectors which have been distinguished for many years on the world market by their high reliability and operational safety.

One of the advantages of this switch disconnector series is the possibility of working under voltage, easy and quick mounting of overvoltage limiters on the switching device, which allows simplification of the vertical and horizontal mounting the disconnector on the pole, as well as a better handling of the device due to its lower weight. The switch disconnectors comply with the requirements of the following standards: EN 62271-1 and EN 62271-103. Used silicon insulators satisfy the fourth grade of contamination area.

The FLc switch disconnectors are equipped with spring-based arc quenching mechanism. All current carrying components are made of silver plated electrolytical copper and form a loop-free current conduction path.

The cross-section of the conductors that make up the current path is sufficiently dimensioned.

Appropriate contact pressures of the stainless steel springs are one of the prerequisites for fault-free switching conditions even after many years of switch disconnector's operation under extreme operating conditions and also under exposure to hoarfrost.

The switch disconnectors are supplied with insulators made of a cyclo-aliphatic resin or silicone.

The construction of the switch disconnector FLc GB N is designed to allow overvoltage limiters.

The switch disconnectors can be controlled either by manually operated drive mechanisms or remote controlled motor drives in outdoor version.

The switch disconnectors can also be provided with encapsulated auxiliary switches (IP 44 protection degree), mounted directly on the frame. The auxiliary switches provide a reliable indication of the closed and opened switching positions.

The construction of the switch disconnectors, the quality level of material used and the care taken in the manufacturing process, which is carried out according to the principles of the ISO 9001:2000 standard, are a guarantee of low operation and maintenance costs in the future.

Design / Types

Design	Description
FLc GB N	*Switch disconnector for mounting on a concrete pole below the power line, for horizontal assembly*

Design	Rated-voltage U_r	Pole height	Weight
FLc GB N	38.5 kV	10.5 m 12 m	79 kg

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Technical data

| FLc GB N		Switching capability	
• Rated voltage	U_r	**12/24 kV**	**38.5 kV**
• Ratet current	I_r	630 A	
• Rated frequency	f_r	50 Hz	
• Rated short-time withstand current	I_k	25 kA/1s	
• Rated peak withstand current	I_p	63 kA	
• Rated short-circuit making current	I_{ma}	12.5 kA[1]	10 kA[1]
• Rated mainly active load-breaking current	I_{load}	31.5 A	15 A
• Rated closed-loop breaking current	I_{loop}	31.5 A	15 A
• Rated breaking current of unloaded transformer	I_{nltr}	8 A	4 A
• Rated cable-charging breaking current	I_{cc}	16 A	20 A
• Rated line-charging breaking current	I_{Lc}	28 A	10 A
• Rated earth fault breaking current	I_{ef1}	50 A	60 A
• Rated cable- and line-charging breaking current under earth fault conditions	I_{ef2}	28 A	23 A
• Rated power frequency withstand voltage Phase - Earth / Phase - Phase across the isolating distance	U_d	80 kV 90 kV	
• Rated lightning impulse withstand voltage Phase - Earth / Phase - Phase across the isolating distance	U_p	180 kV 210 kV	

Creepage distance of the insulator 960 mm

[1] *At a sufficiently quick hand control.*

Drawing

38.5 kV

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Application examples

FLc GB
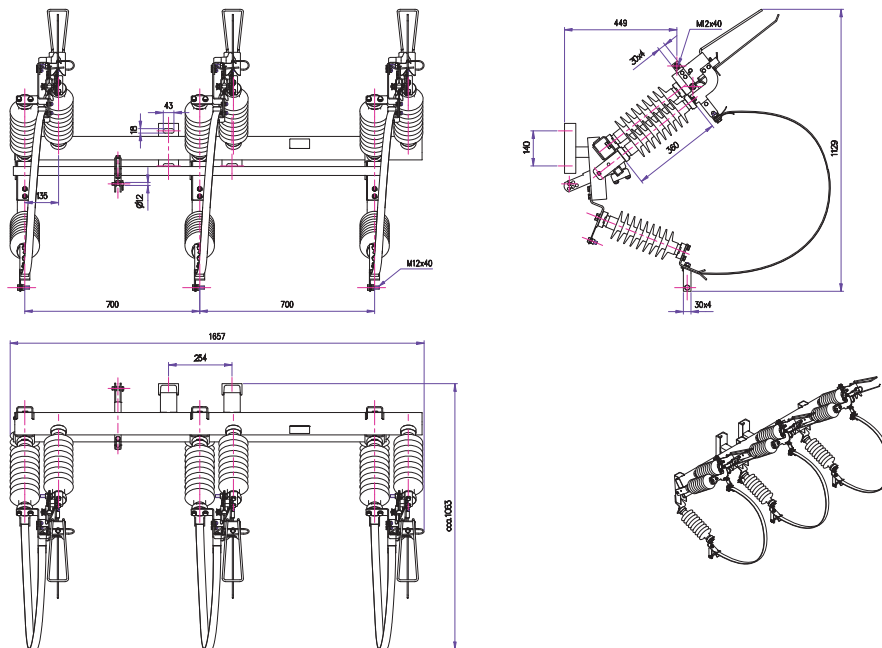
FLc GB with fuses and surge arresters
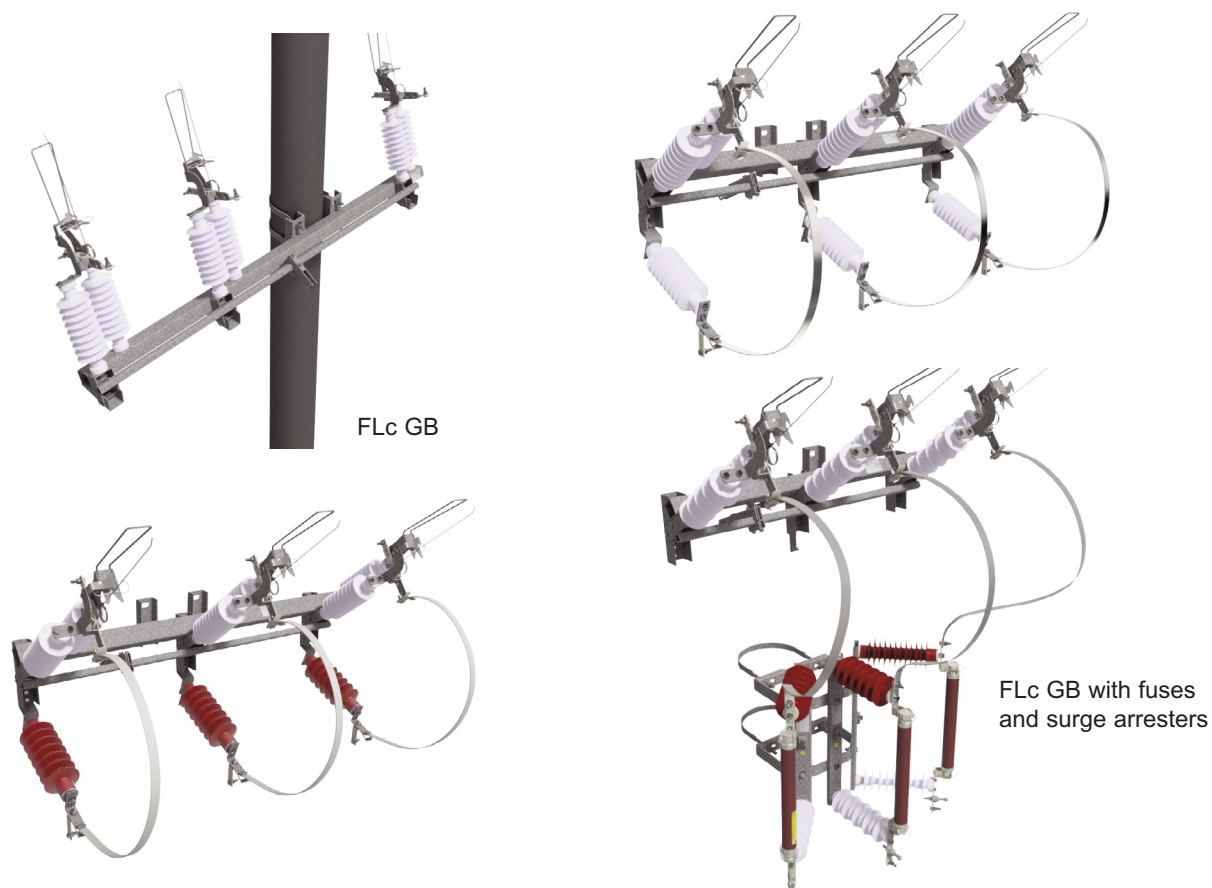
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Dimensions, weights, diagrams and descriptions in this brochure are non-binding. Subject to change without notice.

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