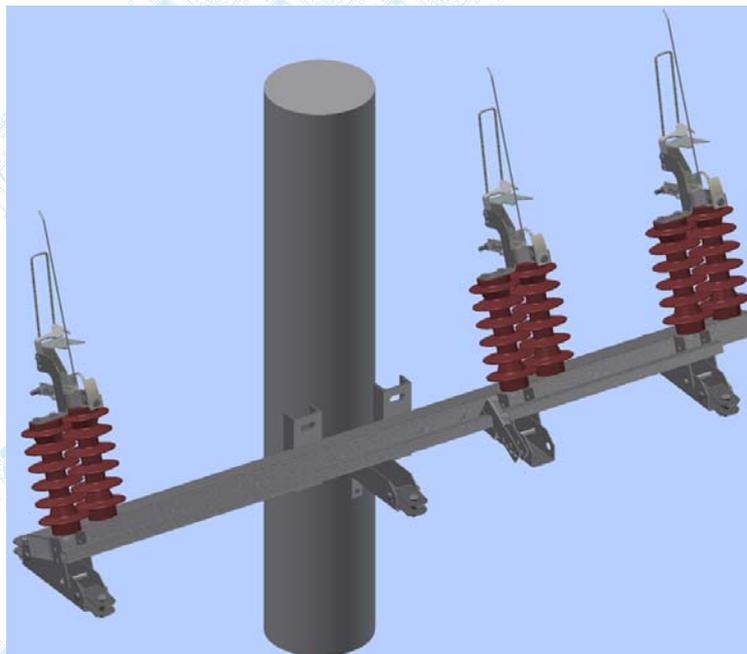


# Outdoor load disconnectors Flc GB N, Flc GB R N and Flc GB S N

three-pole design  
rated voltage 25 and 38.5 kV  
rated current 400 and 630 A



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ISO 9001  
ISO 14001  
BUREAU VERITAS  
Certification



## Outdoor load disconnectors FIC GB N

Outdoor design, load disconnectors of FIC GB N, FIC GB R N and FIC GB S N series have been developed by the DRIBO company as design version of the DRIBO FIC load disconnectors which prove its high reliability and operation safety since many years on the world market.

One of the advantages of this load disconnector series is the possibility of working of the staff under voltage, easy and quick mounting of overvoltage limiters onto the switching device, thus providing for a simplification of mounting the disconnector on the pole, and a better handling of the device due to its reduced weight.

The load disconnectors comply with requirements of the following standards: EN 62271-1 and EN 62271-103. Used insulators satisfy the fourth grade of contamination area.

The FIC N load disconnectors are equipped with spring-based arc quenching mechanism.

All current carrying components are made of silver plated electrolytical copper and constitute a loop-less current conduction path.

The cross-section of the conductors the current-carrying path consists of is sufficiently dimensioned.

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

The load disconnectors are delivered with insulators made of a cyclo-aliphatic resin or silicone.

The FIC GB N load disconnector design has been arranged in a way to provide for the installation of overvoltage limiters.

The load disconnectors can be controlled either by manually operated drive mechanisms or remote controlled motor driven drives in outdoor design.

The load disconnectors can also be provided with encapsulated auxiliary switches (IP 44 protection degree), mounted straight on onto the frame. The auxiliary switches provide for a reliable indication of the closed and opened switching position.

The construction of the load disconnectors, the quality level of material used and care exercised in the production process, which is governed by the principles of the ISO 9001:2000 standard, is a guarantee for low operation and maintenance costs in the future.

**Under normal operating conditions it is not necessary for the load disconnectors to undergo a preventive maintenance during the period of twenty years.**

## Versions of the FIC GB N load disconnectors

Version	Load disconnector characterization
FIC GB N	load disconnector for mounting on a concrete pole below the power line, for horizontal assembly
FIC GB R N	universal load disconnector for mounting on a concrete pole, on top / branching / below the power line, for horizontal assembly
FIC GB S N	load disconnector for mounting on a concrete or steel pole, for vertical assembly

## Technical data of load disconnectors

FIC GB N				
rated voltage	$U_r$	kV	25	38.5
rated current	$I_r$	A <sup>1)</sup>	400/630	400/630
rated short-time current	$I_k$	kA <sup>2)</sup>	20	20
rated peak withstand current	$I_p$	kA <sup>2)</sup>	50	50
rated making current	$I_{ma}$	kA <sup>3)</sup>	12,5	10
rated breaking current – $\cos \phi 0,7$	$I_{load}$	A	31,5	15
rated breaking current of closed loop	$I_{loop}$	A	31,5	15
rated breaking current of unloaded transformer	$I_{nltr}$	A	8	4
rated breaking current of no-load cable	$I_{cc}$	A	16	20
rated breaking current of no-load power line	$I_{lc}$	A	10	10
rated breaking current of the earth fault	$I_{ef1}$	A	50	60
rated cable charging breaking current below earth fault conditions	$I_{ef2}$	A	28	23

<sup>1)</sup> Devices with rated current of 400 A and 630 A differ only on accessories. Standard accessory is for 400 A, 630 A accessory on request.

<sup>2)</sup> Also available with greater endurance to short-time current:  $I_k = 25$  kA,  $t_k = 3$  s /  $I_p = 63$  kA.

<sup>3)</sup> At a sufficiently quick hand control.

## Withstand voltages

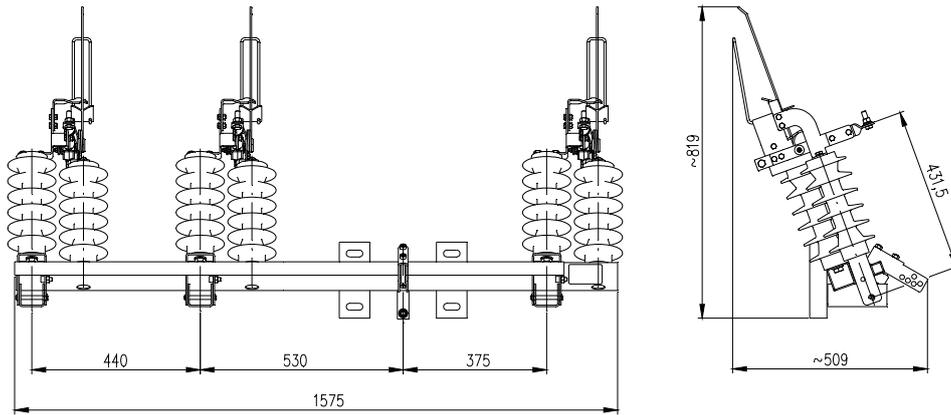
<b>rated voltage</b>	kV	25	38.5
<b>rated short-time withstand power frequency voltage / 1min. to be applied in both dry and wet environmental conditions</b>			
against the earth, across the poles and between disconnected contacts	kV	50	80
across the isolating distance	kV	60	90
<b>rated lightning pulse withstand voltage</b>			
against the earth, across the poles and between disconnected contacts	kV	125	180
across the isolating distance	kV	145	210

## Climatic conditions

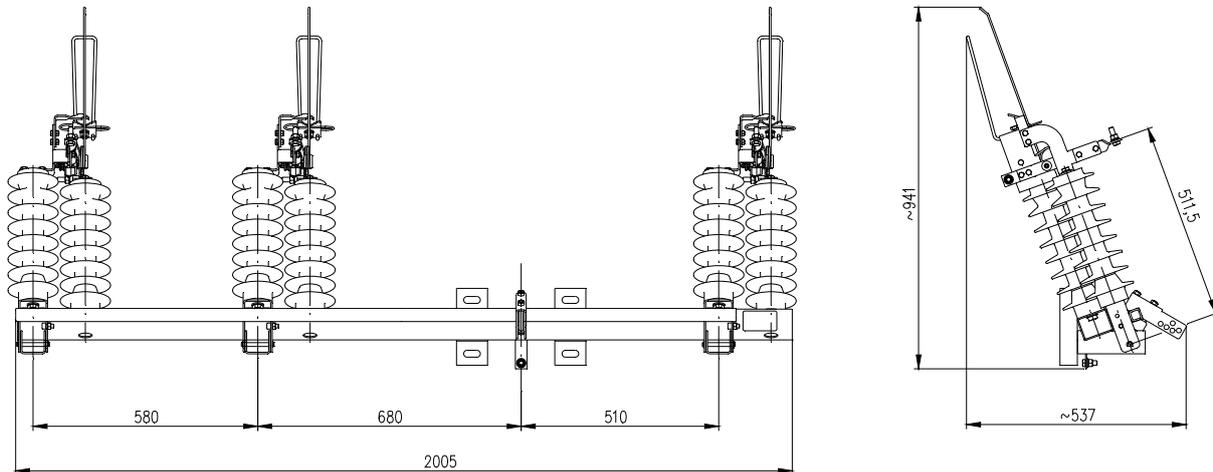
highest temperature	°C	+ 40
lowest temperature	°C	- 30
highest relative humidity	%	100
highest wind pressure	Pa (m/s)	700 (34)
admissible hoar frost	mm	20
typical altitude	m a. s.	up to 1000

Usages in higher altitudes please consult with producer.

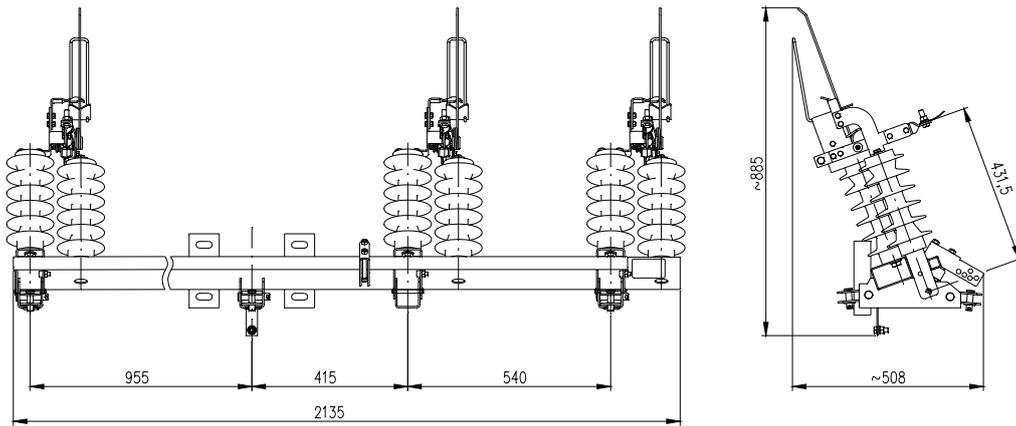
Three-pole outdoor load disconnectors F1c GB N,  $U_r = 25 \text{ kV}$



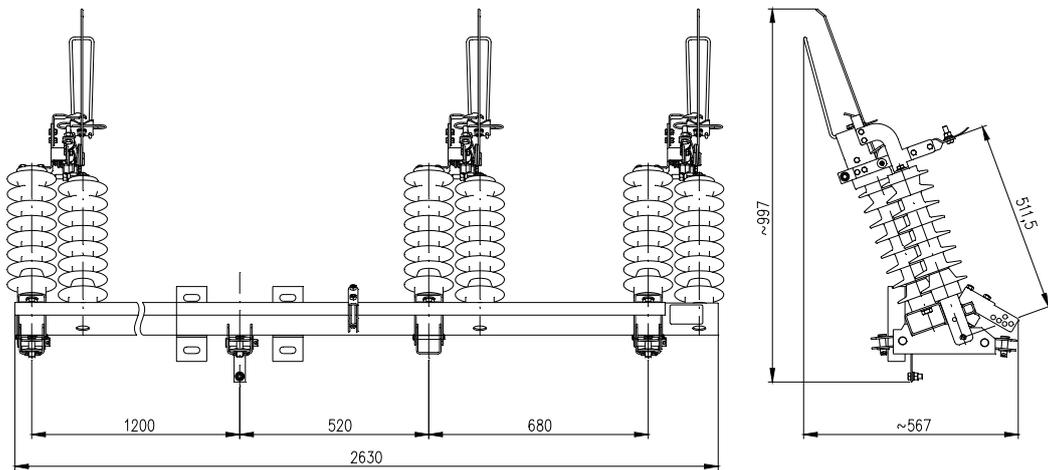
Three-pole outdoor load disconnectors F1c GB N,  $U_r = 38.5 \text{ kV}$



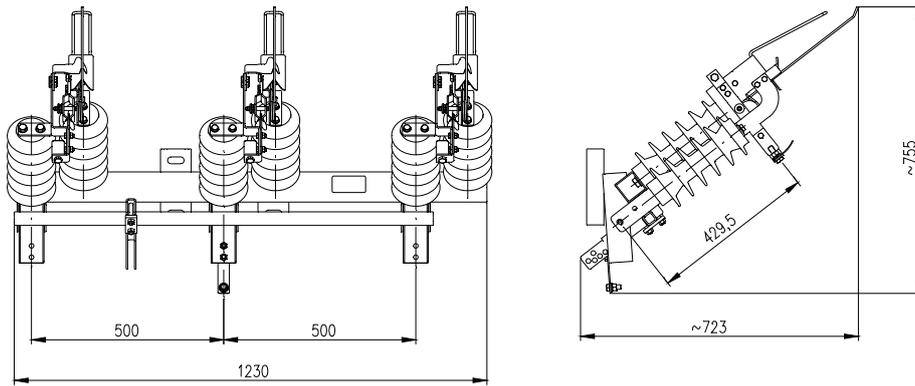
**Three-pole outdoor load disconnectors F1c GB R N,  $U_r = 25$  kV**



**Three-pole outdoor load disconnectors F1c GB R N,  $U_r = 38.5$  kV**



**Three-pole outdoor load disconnectors F1c GB S N,  $U_r = 25$  kV**



**Three-pole outdoor load disconnectors F1c GB S N,  $U_r = 38.5$  kV**

