

DS3A DOUBLE BREAK DISCONNECTOR 12 - 72,5 kV RELIABILITY AND VIRTUALLY NO MAINTENANCE

Idea DS3A disconnector is designed with the most advanced techniques by a team of engineers with over 40 years of experience in the field of high and very high voltage disconnector.

The DS3A disconnector is designed to ensure the best performance and maximum reliability in the wide range of environmental conditions such as high ambient temperature, ice, wind, earthquake, industrial and marine polluted area.

Thanks to the advanced current path design and material, stainless steel contact springs, strong rotary pedestal on sealed ball bearing for low friction and smooth operation, make the disconnector virtually maintenance free.

Standards — The DS3A disconnector is designed to fully comply with IEC 62271-102 and IEC 62271-1 standards - other international standard such as ANSI or customers special specification can be customized upon request.

The strong rotary and support insulators designed for DS3A comply with IEC or ANSI standards with superior mechanical characteristics at high static pulling loads. Top quality ceramic or composite insulators can be supplied upon request.

Modularity — the DS3A disconnector is designed with maximum modularity providing the possibility at any time ,even after installation on site to:

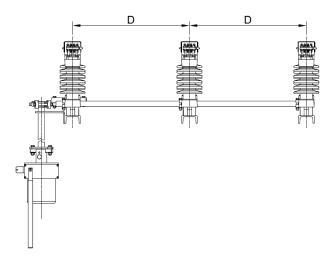
- Upgrade of rated nominal current
- Mounting of one or two earthing switch
- Installation of horizontal pad
- Replacement of manual to motorized operating mechanism
- Assembly of the device for the bus transfer current switching

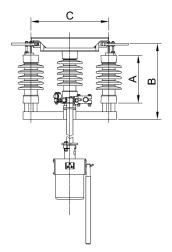
Interlocking facilities between disconnector and earthing switch and on operating mechanism on both open and closed position.

Customization — customized solution including parallel, in-line, diagonal, vertical, upside down and large phase distance available upon request.

Installation at site — the pre-assembled & adjusted delivery of live parts, bases and linkage allow a quick and easy set-up at site. Simple and comprehensive instruction manual facilitate the erection and final adjustments.

MAIN DIMENSIONS





Main dimension – DS3A									
Rated Voltage (kV)	Outline Dimension (mm)								
	Α	В	С	D					
12/17.5	215	395	400	Depend on the					
24	305	485	500	substation layout					
36	445	625	600						
52	475	795	800						
72.5	770	1100	1100						

TECHNICAL DATA

Technical data – DS3A						
Rated voltage (Ur)	kV	12/17.5	24	36	52	72.5
Rated frequency (fr)	Hz	50/60	50/60	50/60	50/60	50/60
Rated nominal current (Ir) up to	Α	3150	3150	3150	3150	3150
Rated short-withstand current, rated duration of short circuit (Ik, tk) up to	kA/s	50/3	50/3	50/3	50/3	50/3
Rated peak withstand current (Ip)	kAp	130	130	130	130	130
Rated power frequency withstand voltage for 1 minute						
To earth and between poles	kV	28/38	50	70	95	140
Across the insulating distance	kV	32/45	60	80	110	160
Rated lightning impulse withstand voltage (1.2/50 μs)						
To earth and between poles	kVp	75/95	125	170	250	325
Across the isolating distance	kVp	85/110	145	195	290	375

OPERATING MECHANISM

The three phase disconnector and earthing switch can be supplied by manual or motor operated mechanism, for each individual pole or one operating mechanism for three poles. The operation is guaranteed via a safe linkage system.

MOTOR OPERATING MECHANISM TYPE MM

MM mechanism consist of corrosion-free, sand and water proof IP55 cabinet containing; DC or AC motor, local remote selector switch, closing/opening push button, motor protection, auxiliary contacts device, easy assembly terminal board, hand crank for manual operation, mechanical and electrical interlocking facilities for safe operation. A robust lubricated for life, two stage irreversible reduction gear system provide smooth and fast operation.



HM mechanism consist of a robust corrosion-free, sand and water proof IP55 mechanism containing; interlock facilities for safe operation, and the lever for manual closing/opening operation. The auxiliary contact assembly on the mechanism can be easily inspected and wired by removing the sealing protection.





EARTHING SWITCH

One or two earthing switch can be assembled in any moment on request on the DS3A base. According to the requirements and substation layout, the earthing switch can be assembled parallel to the D32A bases internally, eternally or perpendicular.

CONTACT US

IDEA45 srl Via Torino 1/L, 35035 Mestrino (Pd) Italy Phone: +39 049 856 1274 Fax: +39 049 872 8263

Fax: +39 049 872 8263 www.idea45srl.com info@idea45srl.com