

STROM • SICHER • SCHALTEN

Outdoor Switches for Railway applications Modular Catenary Switch MCS

- Nominal voltage 15 kV and 25 kV
- Rated current 1250 A and 2000 A





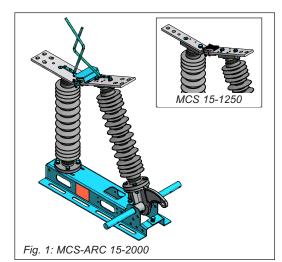


General description

These DRIESCHER outdoor switches of the type Modular Catenary Switch MCS are special catenary switches for railway application and comply with the relevant regulations according to EN 62505-2 and EN 50152-2.

The 1-pole or 2-pole switches can be used for a nominal voltage of 15 kV and 25 kV as well as a rated current of 1250 A and 2000 A. Due to the modular design, various versions are available:

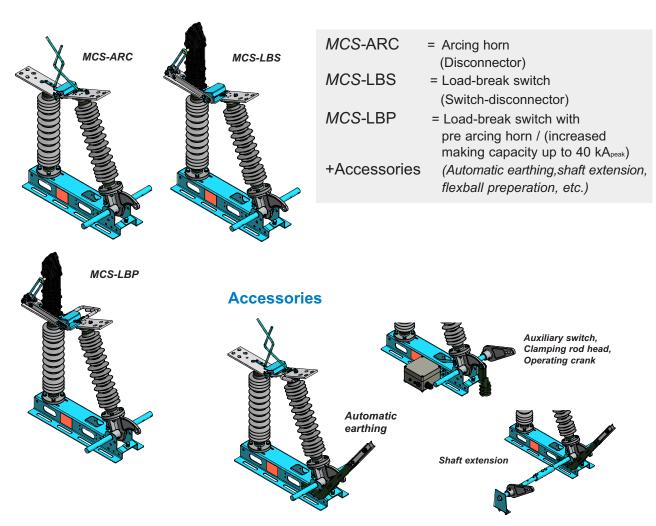
- Disconnector or switch-disconnector (Load-break switch)
- Actuated with central driving crank, left or right side
- Optional with arcing horns
- Optional with automatic earthing
- Optional with auxiliary switch
- 1-pole or 2-pole connected



The current path is made of silver-plated copper. All other parts are made of rust-proof materials to achieve increased corrosion resistance.

Other components such as motor drives and rods are available on request. We are gladly to offer you a custo-mer-specific complete solution.

Type designation



Technical data

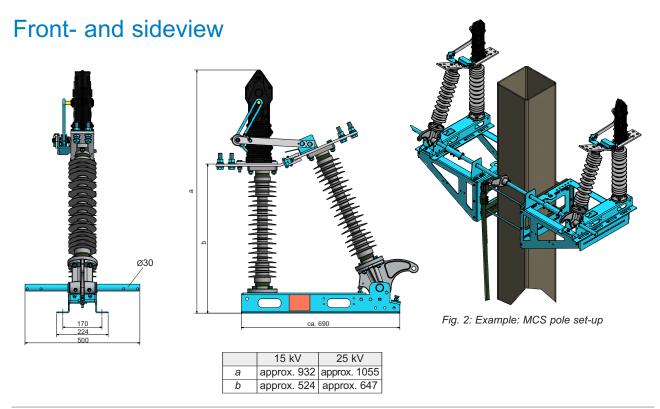
ModularCatenarySwitch MCS-	ARC		LBS		LBP	
Nominal voltage [kV] U _n	15	25	15	25	15	25
Rated voltage [kV] U _{Ne}	17.25	27.5	17.25	27.5	17.25	27.5
Rated current [A] I _n	1250 / 2000	1250 / 2000	1250 / 2000	1250 / 2000	2000	2000
Rated frequency [Hz] f _r	16.7	50	16.7	50	16.7	50
Rated transformer off-load breaking current [A] I ₃	9	9	-	-	-	-
Rated breaking current [A] I _{load}	-	-	1250 / 2000	1250 / 2000	2000	2000
Rated cable-charging breaking current [A] I4a	6	6	32	32	-	-
Rated short-time withstand current [kA] I _k	31.5 / 40	31.5 / 40	31.5 / 40	31.5 / 40	40	40
Rated duration of short-circuit current [s] t _k	3	3	3	3	3	3
Rated peak withstand current [kA] Ip	80 / 100	80 / 100	80 / 100	80 / 100	100	100
Rated short-circuit making current [kA] I _{ma}	-	-	16	16	40	40
Rated impulse withstand current [kV] U _{Ni}	170	250	170	250	170	250
Short-time power frequency test voltage level [kV] U _d	70	95	70	95	70	95
Mechanical life-time	class 3	class 3	class 3	class 3	class 3	class 3
Electrical life-time	-	-	E1	E1	E1	E1
Weight, approx. [kg]	31 / 34	32 / 35	37 / 40	38 / 41	41	42
Creepage distance, approx. [mm]	1150	1595	1150	1595	1150	1595

Switches according to EN 50152-2, IEC 62505-2, EN 62271-102, EN 62271-103, drawing 301700

Field of application

The types of *M*odular*C*atenary*S*witch *MCS* are special constructed for railway applications. Possible applications include for example:

- Catenary switches for open line and tunnel,
- Visible disconnection under load of sectionings,
- Portal- or pole applications, etc.



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Dimensions, weights, diagrams and descriptions in this brochure are non-binding. Subject to change without notice.

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Elektrotechnische Werke Fritz Driescher & Söhne GmbH

Driescherstr. 3 85368 Moosburg

Germany

Phone: +49 8761 681-0

Fax: +49 8761 681-137

E-Mail: infoservice@driescher.de

DRIESCHER GmbH Eisleben

Hallesche Str. 94

06295 Lutherstadt Eisleben

Germany

Phone: +49 3475 7255-0

Fax: +49 3475 7255-109

E-Mail: infoservice@driescher-eisleben.de

www.driescher.de

