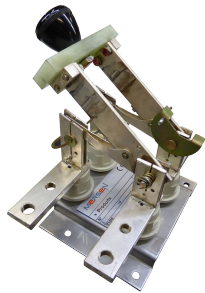


Disconnectors FA range 85VDC 125 to 630Amp

ON BOARD DISCONNECTOR SWITCH

85VDC ON BOARD DISCONNECTORS SWITCH



For more than 100 years, Mersen have been providing the market with safe, reliable and longer life time off-load disconnectors. These devices offer high performances and robustness for heavy duty requirements with very limited maintenance.

Mersen offers one of the largest product ranges on the market for On-Board applications under 85VDC, 750VDC, 1,500VDC, 3,000VDC and 25kVAC.

Mersen has a switch solution that will meet your unique needs.

Our standard On-Board Type A disconnector range is rigorously engineered to meet your technical specifications in different configurations (Disconnector, Change-over, earthing).

Operation : They are operated manually up to 25.000 cycles.

Phase to Phase distance, Signaling, Terminal Box or Locking system can be studied and customised.

Indoor use in a currentless state

TECHNICAL DATA OVERVIEW

Size per Standard	On Board Disconnectors A 125 to 630 Amp for DC under 85VDC
Working Temperature	-40°C to +70°C
Number of Poles	1 to 4 poles with same or different current ratings (for more poles please consult)

FEATURES & BENEFITS

- No Load operation, Indoor Type equipment
- This technology offer various configurations
 - Disconnector or Change-over or Earthing
 - 1 to 2 different positions
 - 1 to 4 poles offering different ratings
- Mechanical endurance : 25.000 cycles minimum warranted.
- High short-circuit currents withstand
- Electrical contact by connecting plates and movable contacts silvered copper.
- Temperature rise at nominal current is less than 40°K (with 70°C max. ambient temperature)
- Visible break by direct seeing of the mobile silver-plated copper contacts.
- Large isolation air and creepage distance.
- Easy connections to Copper busbar by bolting and self-supporting.
- Self-cleaning blade contacts, ideal for polluted environments.

APPLICATIONS

- Battery isolation, auxiliary circuit
- Power control with the possible functions to disconnect, to change-over or to earth the power source of rolling stock applications (Train, Tramway, Metro)

STANDARDS

- IEC 60077-1
- IEC 60077-2
- IEC 61373
- EN 50124



MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

Disconnectors FA range 85VDC 125 to 630Amp

PRODUCT RANGE

On-board Type A 85VDC

Catalog number	Voltage drop	Number of poles/phases
A 10 1P 125A TSDC	10 mV	1 pole disconnecter
A 10 1P 200A TSDC	10 mV	1 pole disconnecter
A 10 1P 320A TSDC	10 mV	1 pole disconnecter
A 10 1P 630A TSDC	10 mV	1 pole disconnecter
A 12 2P 200A TSDC	10 mV	2 poles change-over
A 12 2P 630A TSDC	10 mV	2 poles change-over
A 10 2P 125A TSDC	10 mV	2 poles disconnecter
A 12 2P 125A TSDC	10 mV	2 poles change-over
A 10 2P 200A TSDC	10 mV	2 poles disconnecter
A 12 2P 320A TSDC	10 mV	2 poles change-over
A 10 2P 320A TSDC	10 mV	2 poles disconnecter
A 10 2P 630A TSDC	10 mV	2 poles disconnecter

TECHNICAL DATA

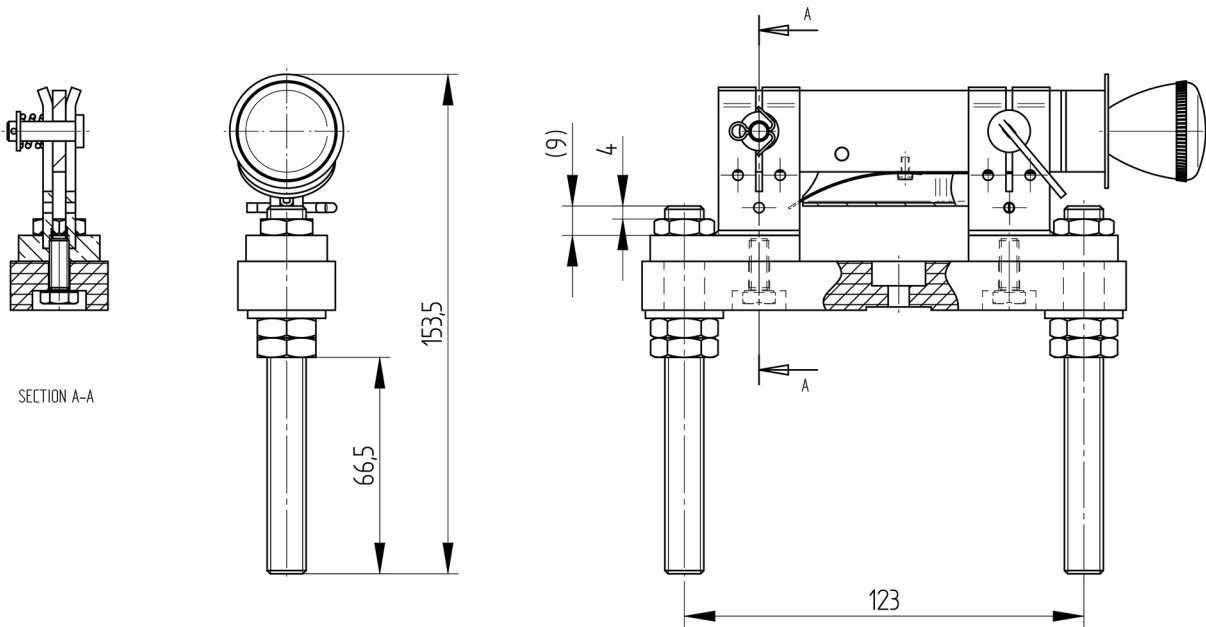
On-board Type A 85VDC

Number of poles/phases	1 to 4 poles (for more poles please consult)
Degree of protection	IP 0
Rated voltage DC	85 V
Rated impulse withstand voltage BIL Phase to earth and between poles	5 kV
Rated impulse withstand voltage BIL across the insulating distance	5 kV
Dielectric withstand voltage 1min/50Hz Phase to earth and between poles	5 kV
Dielectric withstand voltage 1min/50Hz Across the isolating distance	5 kV
Voltage drop	10 mV
Temperature rise at rated current (°K)	40 ° K
Package	1

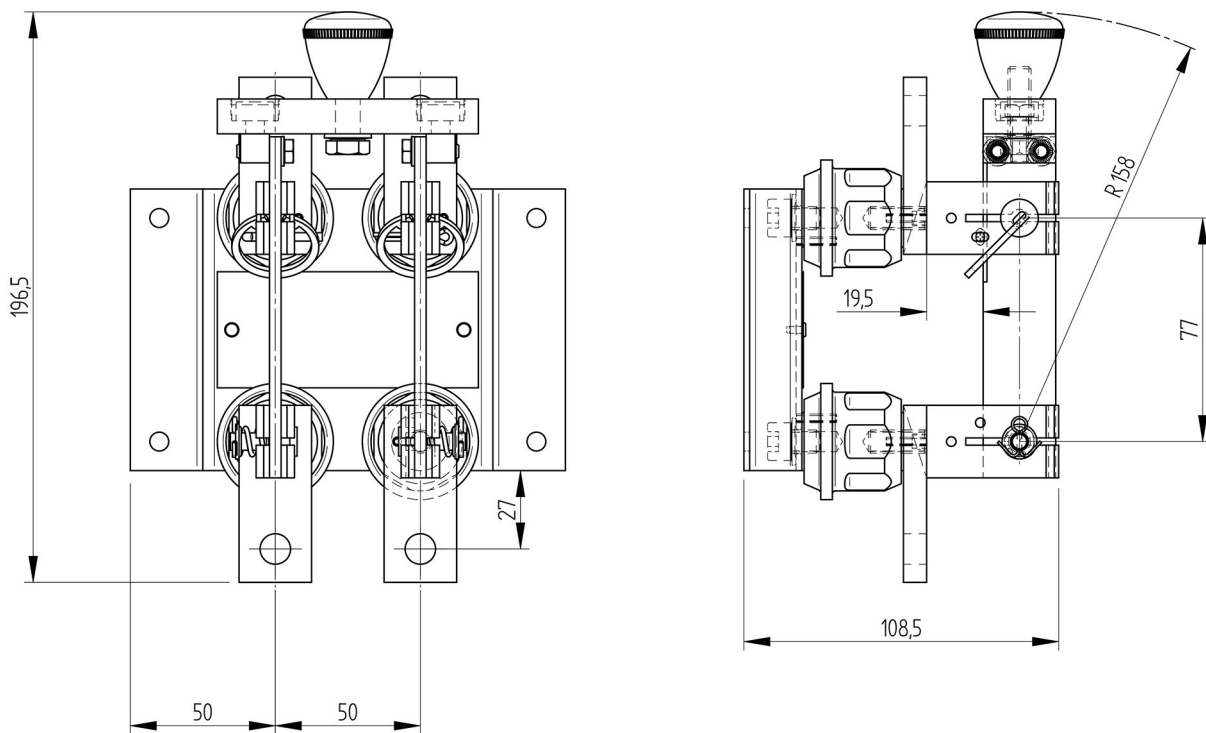
Disconnectors FA range 85VDC 125 to 630Amp

DIMENSIONS

A 85VDC Disconnector : 1 POLES 200Amp - 2 POSITIONS 1-0 (Open - Closed) MANUAL OPERATION
dwg 1045573



A 85VDC Disconnector : 2 POLES 200Amp - 2 POSITIONS 1-0 (Open - Closed) MANUAL OPERATION
dwg 808113



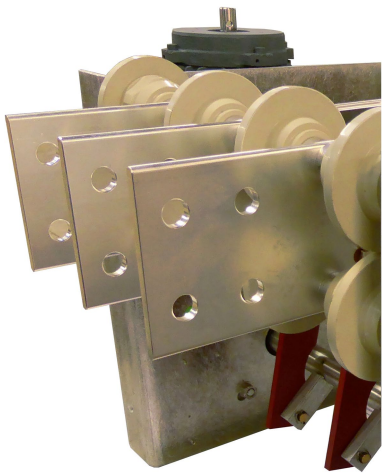
Disconnectors FA range 85VDC 125 to 630Amp

FUNCTIONS



Salty / Laden atmosphere

All the FA Disconnector range can withstand 96h00 (inside and outside) under salty atmosphere (more time withstand under request).



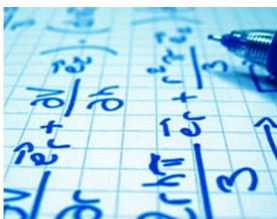
Connection plate adaptation

To adapt the disconnector connexion to the Busbar or cables.



Training and commissioning

The Mersen team can help you in training your maintenance team and in commissioning your new installations all around the world.



LCC; RAMS; Type tests

Mersen teams can supply Life Cycle Costs (LCC), Reliability Availability Maintainability Safety (RAMS), and Failure Mode and Effect Analysis (FMEA) studies. They can operate Qualification type tests.

ACCESSORIES

Lubricants

Catalog number	Weight	Package
Copper Grease	1 kg	1 piece