Knife Switch Disconnectors 600VDC 800Amp

ON BOARD DISCONNECTOR SWITCH

600VDC ON BOARD KNIFE SWITCH

For more than 50 years Mersen have been providing the market with safe, reliable, and longer life time off-load disconnectors and change-overs. These devices offer high performance and robustness for heavy duty and railway requirements with very limited maintenance.

Mersen offers one of the largest product ranges on the market for On-Board applications under 85VDC, 600VDC, 750VDC, 1,500VDC, 3,000VDC and 25kVAC.

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

Our sKnife Switch range is rigorously engineered to meet your technical specifications

This device offers a visible break of the mobile silver plated contacts. This switch incorporate a large isolation air and creepage distance as part of the design

Operation is easy and flexible, it is operated manually and easily connected to the circuit, also they offer self-cleaning blade contacts, ideal for polluted environments.

This range can be studied and customised.

The mechanical endurance is 25,000 cycles minimum warrantied for a device maintained according to the maintenance recommendations.

FEATURES & BENEFITS

• No Load operation
• The knife switch is mounted in a reinforced, isolated box with a cover equipped with compression spring draw latches
• 4 position disconnectors (run, rail test, shop test, auxiliary contacts)
• 1 pole
• Quick break blades
• equipped with a fuse to protect the auxiliary circuit
• Quick break blades
• NEMA 4

APPLICATIONS

• Main Traction circuit
  Change over or isolation of Power Converter and traction
• Power control with functions to disconnect, to change-over, or to ground the power source of rolling stock applications (Metro)

STANDARDS

• NTJ-J-1203
• NFPA 130
• IEC 60077-1
• IEC 60077-2
• IEC 60664
• IEC 61373
• EN 50124
• IEC 60529
Knife Switch Disconnectors 600VDC 800Amp

**TECHNICAL DATA OVERVIEW**

<table>
<thead>
<tr>
<th>Mechanical data</th>
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<tbody>
<tr>
<td>No. of operation</td>
<td>minimum 25,000</td>
</tr>
<tr>
<td>Salt spray withstand</td>
<td>96 hours</td>
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<table>
<thead>
<tr>
<th>Electrical data</th>
<th></th>
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<tbody>
<tr>
<td>Dielectric strength</td>
<td>3700 V rms 60Hz 1 minute</td>
</tr>
<tr>
<td>Degree of protection</td>
<td>Nema 4</td>
</tr>
<tr>
<td>Voltage DC</td>
<td>600 VDC</td>
</tr>
<tr>
<td>Size per Standard</td>
<td>On Board Knife Switch</td>
</tr>
<tr>
<td>Speed/Characteristic</td>
<td>Manual operation</td>
</tr>
<tr>
<td>Rated current $I_n$</td>
<td>800 A</td>
</tr>
<tr>
<td>Working Temperature</td>
<td>-20°C to +70°C 4°F to 158° F</td>
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</table>
| Number of poles         | 1 pole – 4 positions  
- Propulsion position  
- Auxiliaries position  
- Open Position  
- Power collector position |
| Weight                  | 28 kg |

**DIMENSIONS**

Knife switch 750VDC inverter : 1 POLE - 4 POSITIONS 1-0 (position Closed) MANUAL OPERATION
dwg 1065047
DIMENSIONS

Knife switch 750VDC inverter: 1 POLE - 4 POSITIONS 1-0 (Run position) MANUAL OPERATION
dwg 1065047

Knife switch 750VDC inverter: 1 POLE - 4 POSITIONS 1-0 (Shop Test position) MANUAL OPERATION
dwg 1065047

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

**Customized signaling**
This range can be equipped with micro switches offering 0.6 Amp under 250VDC and 10 million cycles operation.
These microswitches are used to signal the switch position.
The knife switch is equipped with 3 microswitches (more under study).

**Color**
Mersen can customize the bin and the cover color as per the RAL chart, for purely cosmetic reasons.

**Training and technical support**
All around the world, Mersen technical team can help you for technical support and can offer you customized training sessions for your Maintenance team.

**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

**Microswitches**

<table>
<thead>
<tr>
<th>Catalog number</th>
<th>Item number</th>
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<tr>
<td>KIT MICROSWITCH V1 R211 NYCTA</td>
<td>P1068041A</td>
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<tr>
<td>KIT MICROSWITCH V2 R211 NYCTA</td>
<td>Q1068042A</td>
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# ACCESSORIES

## Seal

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<tr>
<td>KIT SEALING R211 NYCTA</td>
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## Cable Glands

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<td>KIT CABLE GLANDS R211 NYCTA</td>
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## Traction fuses

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<td>A150Z</td>
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