Motorized switch-disconnectors OTM_F_

Installation instruction
34OTM_F_ / 1SCC303010M0202
Contents

Mounting and dimensional drawings ................................................................. 4
Mounting positions .......................................................................................... 5
Control circuit ................................................................................................... 5
Manual operation: Local .................................................................................... 6
Electrical operation: Remote ............................................................................. 6
Automatic operation ......................................................................................... 7
Impulse control ................................................................................................. 7
Continuous control .......................................................................................... 7
Locking ............................................................................................................... 8
Locking state information .................................................................................. 8
Technical data .................................................................................................... 9
Terminal clamp sets: OZX_ .............................................................................. 10
Terminal shrouds: OTS_ ................................................................................... 10
Auxiliary contact blocks: OA_ .......................................................................... 11
Handle storage: OTVS0 .................................................................................... 11
Fourth pole: OTP_ ............................................................................................ 12
**Installation instruction, OTM_F_**  

**Mounting and dimensional drawings: OTM30-125F_C_**

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**Note:**

Use protection against direct contact. For example:

- **OTM40**
  - 2,5...25 mm² / 2 x 2,5 - 16 mm²
  - 14...4 AWG / 2 x 14 - 6 AWG

- **OTM63-125**
  - 10...70 mm²
  - 8...2/0 AWG

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**Fuse Reset**

1. **Remove**
2. **Fuse Reset**
3. **Remove**

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**OTM30-125F_M**
**Mounting positions**

**Control Circuit**

Only an authorised electrician may perform the electrical installation and maintenance of motorized switch. Do not attempt any installation or maintenance actions when a motorized switch is connected to the electrical mains. Before starting work, make sure that the switch is de-energised.

1. Terminal for motor operator voltage supply
2. Control terminal for push buttons
3. Terminal for state information of locking

Do not couple power for the control terminal. See the correct terminal for the power supply.
**Manual operation: Local**

Electrical operation is prevented when the handle is attached to the switch panel.

**Electrical operation: Remote**

- Never open any covers on the product. There may be dangerous external control voltages inside the motorized switch even if the voltage is turned off.
- Never handle control cables when the voltage of the motorized switch or external control circuits are connected.
- Exercise sufficient caution when handling the unit.
Resetting Fuse

Impulse control

Continuous control

If a new command is given before the switch has reached the position of the previous command, the internal protection may operate.
Locking

Prevent manual and electrical operation.

Locking possible at any position. Check position before locking.

State information
## Technical data

<table>
<thead>
<tr>
<th>Motor operator, control circuit</th>
<th>Value</th>
<th>Cabling/Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated operational voltage U [V]</td>
<td>110-240 Vac/dc 50-60Hz</td>
<td></td>
</tr>
<tr>
<td>Operating voltage range</td>
<td>0.85... 1.1 x U</td>
<td></td>
</tr>
<tr>
<td>Operating angle</td>
<td>90° 0-I, I-0</td>
<td></td>
</tr>
<tr>
<td>Operating time</td>
<td>See Table 2</td>
<td></td>
</tr>
<tr>
<td>Protection degree</td>
<td>IP 20, front panel</td>
<td></td>
</tr>
<tr>
<td>Rated impulse withstand voltage Uimp</td>
<td>4 kV</td>
<td></td>
</tr>
<tr>
<td>Voltage supply</td>
<td>PE N L, + - 1,5 - 2,5mm²</td>
<td></td>
</tr>
<tr>
<td>F2 Max. MCB 16A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Control terminal for the push-buttons</td>
<td>C I 0 1,5 - 2,5mm²</td>
<td></td>
</tr>
<tr>
<td>Maximum cable length</td>
<td>100 m</td>
<td></td>
</tr>
<tr>
<td>Terminal for state information</td>
<td></td>
<td>1,5mm² 3A AC-1/250V</td>
</tr>
<tr>
<td>Also used with the automatic control unit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common, voltage supply</td>
<td>11</td>
<td>SCPD Max. MCB C2A</td>
</tr>
<tr>
<td>Handle attached or motor operator locked</td>
<td>14</td>
<td>SCPD Max. MCB C2A</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-25... +55 °C</td>
<td></td>
</tr>
<tr>
<td>Transportation and storage temperature</td>
<td>-40... +70 °C</td>
<td></td>
</tr>
<tr>
<td>Altitude</td>
<td>Max. 2000m</td>
<td></td>
</tr>
</tbody>
</table>

### Table 1 General technical data of motor operators

<table>
<thead>
<tr>
<th>Type</th>
<th>Voltage $U_e$ [V]</th>
<th>Nominal current $I_n$ [A]</th>
<th>Current Inrush $I_i$ [A]</th>
<th>Operating time $I_0$, $0-I$ [s]</th>
</tr>
</thead>
<tbody>
<tr>
<td>OTM40...125_</td>
<td>110-240 Vac/dc</td>
<td>0.2 - 0.5</td>
<td>1.5 - 3.0</td>
<td>0.5 - 1.0</td>
</tr>
</tbody>
</table>

a) Under nominal conditions

### Table 2 Specified technical data of motor operators
Installation instruction, OTM_F_

**Auxiliary contact blocks OA_**, Handle storage OTVS0

**OA_**

1. **2x0.75...2.5 mm²**
   **2x18...14 AWG**
   
   0.8 Nm  
   7 lb.-in.

   POZIDRIVE  
   M3.5  Form 2

2. **OA2G11**

3. **max 2**
   **NO**
   **NC**
   
<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>OA1G10</td>
<td>OA8G01</td>
</tr>
<tr>
<td>l</td>
<td>l</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

   OA2G11
   For 3-pole only

**OTVS0**

1. **A**

2. **B**

3. **max 2**
   **OA1G10**
   **OA8G01**
   **OA2G11**

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AABB
Installation instruction, OTM_F_

Fourth pole OTP_

OTP_

<table>
<thead>
<tr>
<th>OTM40</th>
<th>OTPS60FP</th>
<th>OTPL60FP</th>
<th>OTPN60FP</th>
<th>OTPE60FP</th>
</tr>
</thead>
<tbody>
<tr>
<td>OTM63-125</td>
<td>OTPS125FP</td>
<td>OTPL125FP</td>
<td>OTPN125FP</td>
<td>OTPE125FP</td>
</tr>
<tr>
<td>(N)7 L4</td>
<td>N</td>
<td>N</td>
<td>PE</td>
<td></td>
</tr>
<tr>
<td>(N)8 T4</td>
<td>N</td>
<td>N</td>
<td>PE</td>
<td></td>
</tr>
</tbody>
</table>

OTPD60FP

OTPD125FP

1. 14-15 mm 
   0.55-0.59 in

2. 10...70 mm²
   8...2/0 AWG

3. 2.5...25 mm²
   14...4 AWG
   2 x 2.5 -16 mm²
   2 x 14...6 AWG

6 Nm 
55 lb.-in.

4 mm 
0.16 in