Low Voltage Products

Fuse Monitor, OFM
The OFM fuse monitor provides a facility for an immediate tripping option after a fuse blown
- no danger for 2-phase motor loading
- prevents unsafe neutral voltages

- Small and compact size
- No need for external supply voltage
- Wide voltage range 100V...260VAC and 380V...690VAC
- Full operational ability even with phase unbalance
- Safe and reliable
- EMC-tested
- Operates with all standard fuses
- Suitable for monitoring the fuses in capacitor banks

The OFM Fuse Monitor can be used with fuse links of all types and sizes. Striker-type fuses are not required which reduces overall cost. The red pilot light indicates any fuse blown and 1 N/O. + 1 N/C. auxiliary contacts give an alarm or a trip signal.

The OFM Fuse Monitor has a green LED indicating normal status (a voltage on fuse holders). The green LED turns off and the red LED on, in the case of one or more fuses blown.

The OFM Fuse Monitor is automatically reset after the blown fuses have been replaced.

Extreme safe operation has been ensured by testing the OFM unit with a 14.8 kV impulse voltage across the blown fuse and with 5 kV/1 min voltage test between the power circuit and auxiliary contacts.

The wires on the supply side are double insulated. For the new OS-switch fuse, there is a snap-on mounting available on to the side of the switch. For other OESA-switchfuses or OFAX-fusebases, the fuse monitor can be screwmounted with mounting feet.
**Fuse Monitor**

**Ordering Information**

**Fuse Monitor**, Suitable for 3-phase circuits.

- includes the auxiliary contacts 1NO + 1NC.

<table>
<thead>
<tr>
<th>Type</th>
<th>Rated voltage [Vac]</th>
<th>Weight [kg]</th>
<th>Package [pcs]</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFM 260</td>
<td>100...260</td>
<td>0.14</td>
<td>1</td>
</tr>
<tr>
<td>OFM 690</td>
<td>380...690</td>
<td>0.14</td>
<td>1</td>
</tr>
</tbody>
</table>

**Mounting Accessories**

Includes 6 pcs crimp terminals. Type OFMZX4 includes also push on terminals for fitting to 2.5 mm or 5 mm Cu-bars and type OFMZX5 includes also 6 pcs flat angle terminals.

<table>
<thead>
<tr>
<th>Type</th>
<th>For switch size</th>
<th>Crimp terminal size [mm]</th>
<th>Package [pcs]</th>
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<td>OFMZX 2</td>
<td>OESA Mini, OS-switch</td>
<td>2.8 - 0.8</td>
<td>1</td>
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<td>OFMZX 3</td>
<td>OESA 32...63...MNS</td>
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<td>OFMZX 4</td>
<td>OESA 200...800</td>
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**Technical Data, Type OFM 690**

**Power Circuit**

- Connection wire no:s 1, 3, 5: Double insulated 0.75 mm² Cu, length 60 cm
- Connection wire no:s 2, 4, 6: 0.75 mm² Cu, length 60 cm
- Rated voltage OFM 260: 100 Vac ... 260 Vac
- Rated voltage OFM 690: 380 Vac ... 690 Vac
- Voltage tolerance: -10% ... +10%
- Power consumption: < 3 VA
- Rated frequency: 50 / 60 Hz
- Measuring impedance: > 1000 Ω/V
- Impulse test voltage (1.2 / 50 μs): - Phase to phase 9.8 kV
- - Supply to load 14.8 kV

**Output terminals (Auxiliary contacts)**

- Terminals: 13-14 (NO), 21-22 (NO)
- Wire section:
  - Flexible Cu: ≤ 1.5 mm²
  - Rigid Cu: ≤ 2.5 mm²
- Rated current: Ie
  - 8A / 250Vac / AC1
  - 3A / 250Vac / AC15
- Rated voltage / max. breaking voltage: 250 Vac / 440 Vac
- Rated breaking capacity: 2000 VA
- Contact material: Cadmium free

**Characteristics**

- Specified ambient air temperature range: -25...+60°C
- Transport and storage temperature range: -40...+70°C
- Operating time: < 2 sec
- Overvoltage category / Pollution severity: III / 3
- Dielectric test voltage:
  - Power circuit/output terminals: 5 kVrms / 1min 50Hz

**EMC:**

- Conducted Emission: EN 55022 (1994) Class B
- Harmonic Currents Emissions: EN 61000-3-2 (1995) Class A
- Immunity: EN 61000-4-2 (1995) Criteria B Level 2/3 (Contact/Air)
- RF Radiated Field: EN 61000-4-3 (1996) Criteria A Level 3
- RF Electromagnetic Conducted: EN 61000-4-6 (1996) Criteria A Level 3
- Magnetic field immunity:
  - Continuous: EN 61000-4-8 (1993) Level 5
  - Pulse 1.2 / 50 μs: EN 61000-4-9 (1993) Level 5
- Housing: Self-extinguish thermoplast with V-0 behavior in accordance with UL 94
- Degree of protection: IP 20
- Weight: 140 g

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Fuse Monitor
Contact Functions
Dimension Drawings [mm]

Contact Functions

Dimension Drawings [mm]

Length of the wires 0.6 m
(May be cut to the desired length.)

ABB Oy
Low Voltage Products
P.O. Box 622
FI-65101 VAASA, Finland
Telephone +358 10 11
Telefax +358 10 22 45708
http://www.abb.com/LVswitches

The technical data and dimensions are valid at the time of printing. We reserve the right to subsequent alterations.