

**Fuse Monitor
OFM**

Brochure OFM 20 GB 98-10



Fuse Monitor, Types OFM 260 and OFM 690

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**



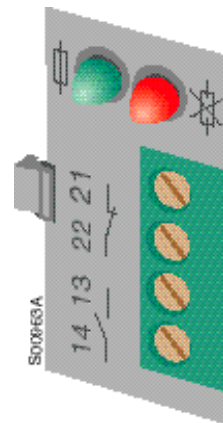
The OFM Fuse Monitor can be used with fuse links of all types and sizes. Striker-type fuses are not required which reduces overall cost. The red pilot light indicates any fuse blown and 1 N/O. + 1 N/C. auxiliary contacts give an alarm or a trip signal.

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.

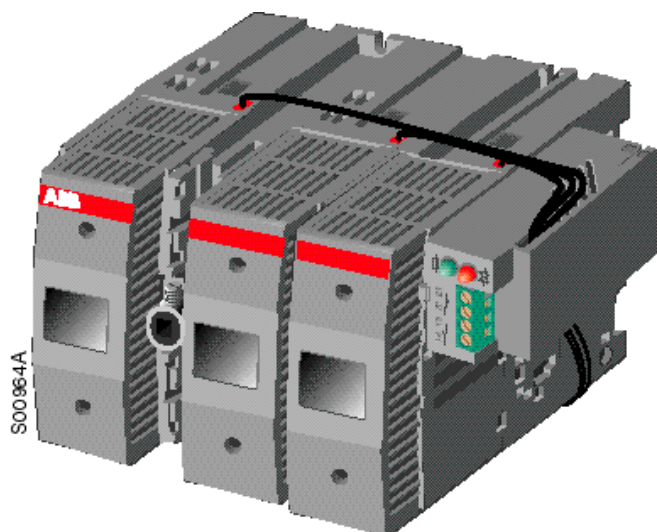
The OFM Fuse Monitor is automatically reset after the blown fuses have been replaced.

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.



The green led in ready and ok state and the red led in the failure situation.

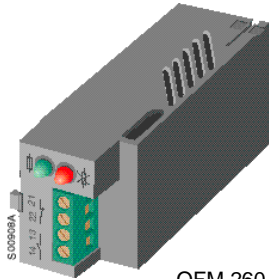


Fuse monitor mounted to the OS-switch fuse.

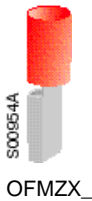
Fuse Monitor

Ordering Information

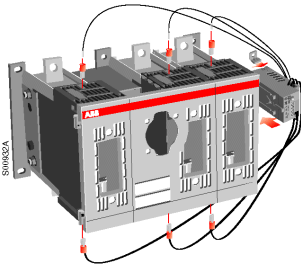
Technical data



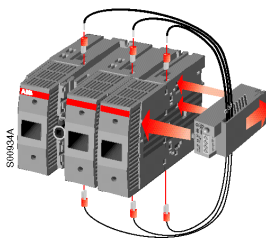
OFM 260
OFM 690



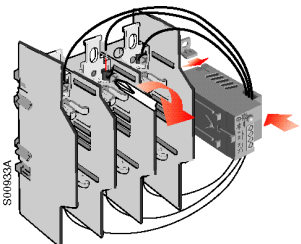
OFMZ_



OESA 200...800 + OFM 690



OS_ + OFM 690



OFAX_ + OFM 690

Ordering Information

Fuse Monitor, Suitable for 3-phase circuits.

- includes the auxiliary contacts 1NO + 1NC.

Type	Rated voltage [Vac]	Weight [kg]	Package [pcs]
OFM 260	100...260	0.14	1
OFM 690	380...690	0.14	1

Mounting Accessories

Includes 6 pcs crimp terminals. Type OFMZ4 includes also push on terminals for fitting to 2.5 mm or 5 mm Cu-bars and type OFMZ5 includes also 6 pcs flat angle terminals.

Type	For switch size	Crimp terminal size [mm]	Package [pc]
OFMZ 2	OESA Mini, OS-switch	2.8 - 0.8	1
OFMZ 3	OESA 32...63_ MNS,	6.3 - 0.8	1
OFMZ 4	OESA 200...800	6.3 - 0.8	1
OFMZ 5	OESA 00, 00-160	6.3 - 0.8	1

Technical Data, Type OFM 690

Power Circuit

Connection wire no:s 1, 3, 5	Double insulated 0.75 mm ² Cu, length 60 cm
Connection wire no:s 2, 4, 6	0.75 mm ² 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
Impulse test voltage (1.2 / 50 μ s)	- Phase to phase - Supply to load
	9.8 kV 14.8 kV

Output terminals (Auxiliary contacts)

Terminals	13-14 (NO), 21-22 (NC)
Wire section:	
Flexible Cu	1,5 mm ²
Rigid Cu	2,5 mm ²
Rated current I _e	8A / 250Vac / AC1 3A / 250Vac / AC15 2A / 24Vdc / DC13
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 IEC 947-1
Dielectric test voltage:	
Power circuit/output terminals	5 kVrms / 1min 50Hz

EMC:

<i>Emission</i>	
Conducted Emission	EN 55022 (1994) Class B
Radiated Emission	EN 55022 (1994) Class B
Harmonic Currents Emissions	EN 61000-3-2 (1995) Class A
<i>Immunity</i>	
Electrostatic Discharge (ESD)	EN 61000-4-2 (1995) Criteria B Level 2/3
	(Contact/Air)
RF Radiated Field	EN 61000-4-3 (1996) Criteria A Level 3
Electrical Fast Transient (EFT)	EN 61000-4-4 (1995) Criteria B Level 3
RF Electromagnetic Conducted	EN 61000-4-6 (1996) Criteria A Level 3
RF Electromagnetic Field (GSM)	ENV 50204 (1995) Criteria A

Magnetic field immunity

Continuous	EN 61000-4-8 (1993) Level 5
Pulse 1.2 / 50 μ s	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

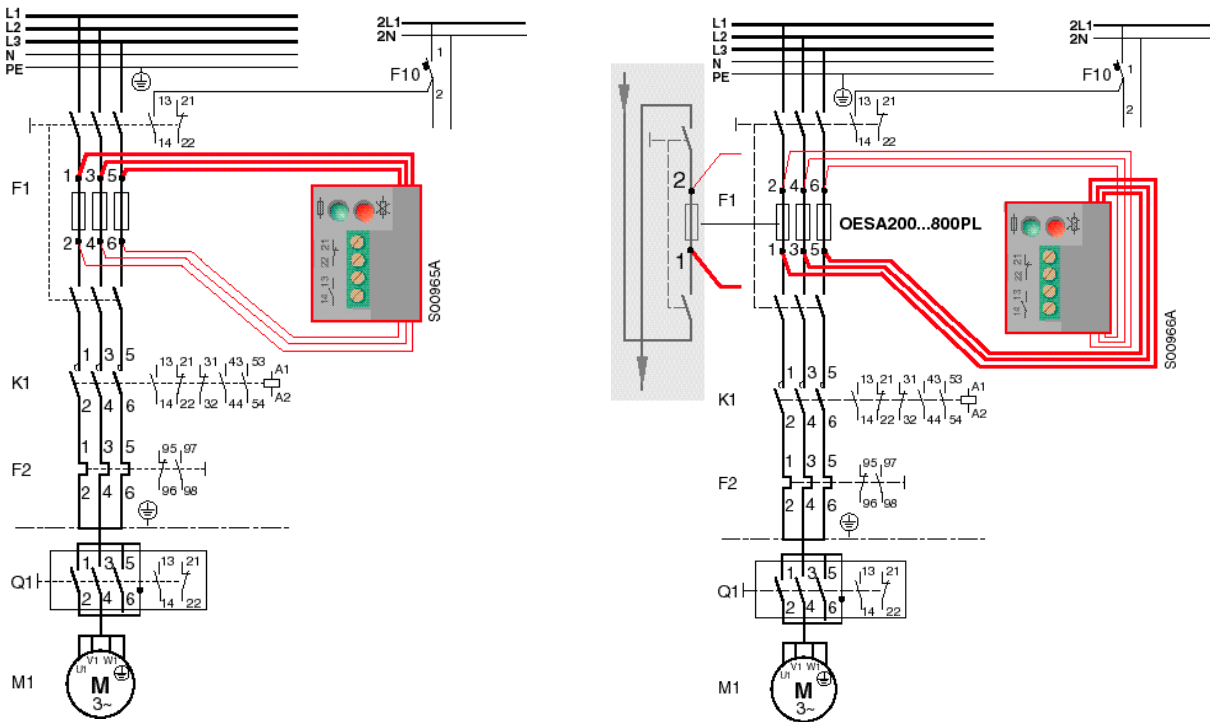
140 g

Fuse Monitor

Contact Functions

Dimension Drawings [mm]

Contact Functions



Dimension Drawings [mm]

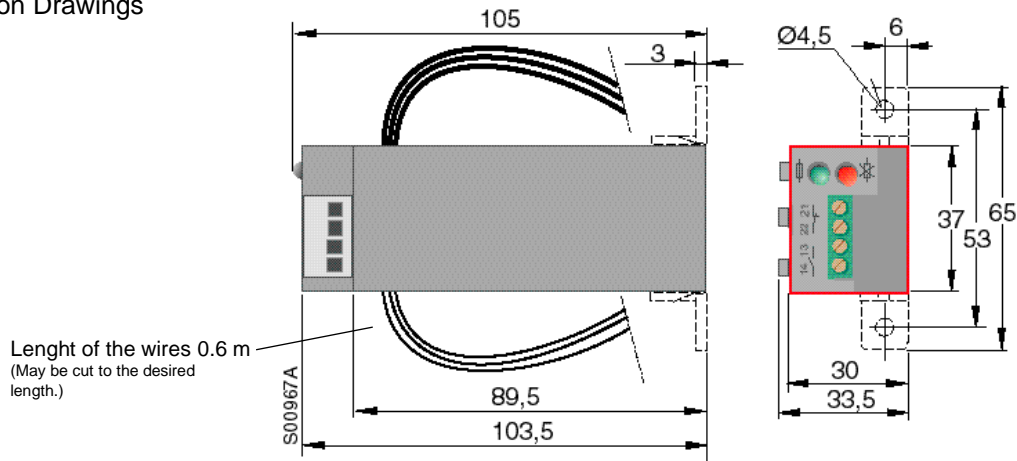


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The technical data and dimensions are valid at the time of printing. We reserve the right to subsequent alternations.