

## Pressure switch, 3p, 25bar

**Part no.**                    **MCSN16**  
                                       **038695**  
**EL Number**                **4356113**  
**(Norway)**

| <b>General specifications</b>            |  |   |
|--|--|---|
| Product name                             |  | Eaton Moeller® series MCS Pressure switch   |
| Part no.                                 |  | MCSN16  |
| EAN                                      |  | 4015080386957   |
| Product Length/Depth                     |  | 96 millimetre   |
| Product height                           |  | 111 millimetre  |
| Product width                            |  | 60 millimetre   |
| Product weight                           |  | 0.467 kilogram  |
| Certifications                           |  | CSA<br>CSA Class No.: 3211-06<br>CSA-CC22.2 No. 14<br>IEC/EN 60947-4-1<br>CSA File No.: 012528  |
| Product Tradename                        |  | MCS   |
| Product Type                             |  | Pressure switch   |
| Product Sub Type                         |  | None  |
| Catalog Notes                            |  | Note on use: This product complies with Low-Voltage Directive 2014/35/EC and EMC Directive 2014/30/EC and meets the requirements in EN 60947-5-1. This product does not meet the rail industry's standard requirements. Accordingly, the user must review it separately for the specific application at hand. |
| <b>Features &amp; Functions</b>          |  |   |
| Electric connection type                 |  | Screw connection  |
| Features                                 |  | Variable switching differential   |
| Number of poles                          |  | Three-pole  |
| <b>General information</b>               |  |   |
| Actuator diameter                        |  | 0 mm  |
| Bursting pressure                        |  | 90 bar  |
| Connection                               |  | Inner thread gas cylindrical (BSPP)   |
| Connection type                          |  | Flat terminal with clamping washer  |
| Coordination type                        |  | 1   |
| Degree of protection                     |  | IP65<br>NEMA Other  |
| Lifespan, electrical                     |  | 500,000 Operations  |
| Operating frequency                      |  | 1500 Operations/h   |
| Operating pressure - max                 |  | 16000 hPa   |
| Overvoltage category                     |  | III   |
| Pollution degree                         |  | 3   |
| Product category                         |  | Pressure switches   |
| Rated impulse withstand voltage (Uimp)   |  | 4000 V AC   |
| Suitable as                              |  | Guard<br>2-point controller   |
| Test pressure                            |  | 32 bar  |
| <b>Ambient conditions, mechanical</b>    |  |   |
| Mounting position                        |  | Vertical and 90° in all directions  |
| Shock resistance                         |  | 10 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms   |
| Vibration resistance                     |  | 36 Hz, Amplitude 1 mm, (IEC/EN 60068-2-6)   |
| <b>Climatic environmental conditions</b> |  |   |
| Ambient operating temperature - min      |  | -25 °C  |
| Ambient operating temperature - max      |  | 70 °C   |
| Climatic proofing                        |  | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30  |

|   |  |   |
|---|--|---|
| Environmental conditions                                    |  | Compliant to 2014/35/EC, 2014/30/EC and EN 60947-5-1. Accordingly, the user must review it separately for the specific application at hand. |
| <b>Terminal capacities</b>                                  |  |   |
| Terminal capacity (flexible with ferrule)                   |  | 1 x (0.5 - 1.5) mm <sup>2</sup> , ferrules to DIN 46228<br>2 x (0.5 - 1.5) mm <sup>2</sup>  |
| Terminal capacity (solid)                                   |  | 1 x (0.75 - 2.5) mm <sup>2</sup><br>2 x (0.75 - 1.5) mm <sup>2</sup>  |
| Screw size  |  | M4, Terminal screw  |
| Tightening torque   |  | 1.2 Nm, Screw terminals   |
| <b>Electrical rating</b>                                    |  |   |
| Rated frequency - max                                       |  | 50 Hz   |
| Rated insulation voltage (Ui)                               |  | 400 V   |
| Rated operational current (Ie)                              |  | 15 A at AC-3, 230 V<br>16 A at DC-3, 24 V<br>11.5 A at AC-3, 400 V<br>12.5 A at DC-3, 110 V<br>2 A at DC-3, 250 V                           |
| Rated operational current (Ie) at AC-1, 380 V, 400 V, 415 V |  | 0 A   |
| Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V |  | 11.5 A  |
| Rated operational power at AC-3, 220/230 V, 50 Hz           |  | 4 kW  |
| Rated operational power at AC-3, 380/400 V, 50 Hz           |  | 5.5 kW  |
| Rated operational voltage (Ue) at AC - min                  |  | 0 V   |
| Rated operational voltage (Ue) at AC - max                  |  | 400 V   |
| Rated operational voltage (Ue) at DC - min                  |  | 0 V   |
| Rated operational voltage (Ue) at DC - max                  |  | 250 V   |
| <b>Short-circuit rating</b>                                 |  |   |
| Rated conditional short-circuit current (Iq)                |  | 1 kA  |
| Short-circuit protection                                    |  | PKZM0-20, Fuseless  |
| Short-circuit protection rating                             |  | Max. 20 A gG/gL, Fuse, Contacts   |
| <b>Contacts</b>   |  |   |
| Number of auxiliary contacts (change-over contacts)         |  | 0   |
| Number of auxiliary contacts (normally closed contacts)     |  | 0   |
| Number of auxiliary contacts (normally open contacts)       |  | 0   |

## Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Pressure switch (EC000243)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Monitoring equipment (low-voltage switch technology) / Pressure monitoring equipment (ecl@ss13-27-37-18-14 [AKF108019])

|  |     |  |
|--|-----|--|
| Suitable as guard                      |     | Yes  |
| Suitable as 2-point controller         |     | Yes  |
| Suitable as limiter                    |     | No   |
| Max. operating pressure                | hPa | 16000  |
| Engaging pressure                      | bar | 0 - 13.1                                       |
| Initial setting                        | hPa | 0 - 0  |
| Switch off pressure                    | bar | 0 - 16   |
| End setting                            | hPa | 0 - 0  |
| Pressure-switching differential        | bar | 0  |
| Max. test pressure                     | bar | 32   |
| Bursting pressure                      | bar | 90   |
| Medium temperature                     | °C  | 25 - 80  |
| Connection                             |     | Internal thread cylindrical BSPP-G (ISO 228-1) |
| Thread size                            |     | 1/2 inch                                       |
| Rated voltage Ue at AC 50 Hz           | V   | 0 - 400  |
| Rated voltage Ue at AC 60 Hz           | V   | 0 - 400  |
| Rated voltage Ue at DC                 | V   | 0 - 250  |
| Initial value measuring range pressure | Pa  | 0  |
| End value measuring range pressure     | Pa  | 0  |
| Rated operation power at AC-3, 400 V   | kW  | 5.5  |

|   |    |                  |
|---|----|------------------|
| Switching capacity at AC-3, 240 V                       | kA | 0                |
| Rated operation current I <sub>e</sub> at AC-1, 400 V   | A  | 0                |
| Rated operation current I <sub>e</sub> at AC-3, 400 V   | A  | 11.5             |
| Number of auxiliary contacts as normally open contact   |    | 0                |
| Number of auxiliary contacts as normally closed contact |    | 0                |
| Number of auxiliary contacts as change-over contact     |    | 0                |
| Type of electric connection                             |    | Screw connection |
| Number of normally closed contacts as main contact      |    | 3                |
| Number of normally open contacts as main contact        |    | 0                |
| Adjustable current range                                | A  | 0 - 0            |
| With hand operation                                     |    | No               |
| With manual on/off switch                               |    | No               |
| Electronic version                                      |    | No               |
| With display  |    | No               |
| Explosion-proof   |    | No               |
| Degree of protection (IP)                               |    | IP65             |
| Degree of protection (NEMA)                             |    | Other            |
| Height  | mm | 111              |
| Width   | mm | 60               |
| Diameter  | mm | 0                |
| Depth   | mm | 96               |