

## Product data sheet

### Characteristics

# MX9SP140

Surge Protection Device, MAX9 SPD, 1P, 40kA



### Main

|                             |                                 |
|-----------------------------|---------------------------------|
| Range                       | MAX9                            |
| Product or component type   | Surge arrester                  |
| Poles description           | 1P                              |
| Remote signalling           | With                            |
| Signal contacts composition | 1 NO + 1 NC                     |
| Surge arrester type         | Electrical distribution network |
| Earthing system             | TN-C<br>TN-S<br>TT              |
| Device application          | Distribution                    |

### Complementary

|                                                  |                                                                                                                                             |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Surge arrester class type                        | Type 2                                                                                                                                      |
| Surge arrester technology                        | MOV                                                                                                                                         |
| Local signalling                                 | Flag                                                                                                                                        |
| [Ue] rated operational voltage                   | 240 V +/- 6 % AC 50/60 Hz                                                                                                                   |
| Nominal discharge current                        | 15 kA conforming to IEC 61643-11                                                                                                            |
| Maximum discharge current                        | 40 kA conforming to IEC 61643-11                                                                                                            |
| [Uc] maximum continuous operating voltage        | 350 V AC                                                                                                                                    |
| Maximum [Up] voltage protection level            | <1.6 kV type 2                                                                                                                              |
| [Ures] residual voltage                          | 1545 V                                                                                                                                      |
| [Ut] temporary overvoltage                       | 336 V L/PE 5 s withstand                                                                                                                    |
| Local signalling                                 | White/red flag                                                                                                                              |
| Local signalling                                 | Flag (white/red)                                                                                                                            |
| Signalling circuit voltage                       | AC: 250 V 50/60 Hz                                                                                                                          |
| Signalling output current                        | 0.25 A                                                                                                                                      |
| Mounting mode                                    | Clip-on                                                                                                                                     |
| Mounting support                                 | DIN rail                                                                                                                                    |
| Comb busbar and distribution block compatibility | Tooth                                                                                                                                       |
| 9 mm pitches                                     | 2                                                                                                                                           |
| Height                                           | 85 mm                                                                                                                                       |
| Width                                            | 18 mm                                                                                                                                       |
| Depth                                            | 64 mm                                                                                                                                       |
| Product weight                                   | 119 g                                                                                                                                       |
| Colour                                           | White (RAL 9003)                                                                                                                            |
| Cable cross section                              | 2.5...25 Mm <sup>2</sup> rigid<br>4...16 mm <sup>2</sup> flexible                                                                           |
| Response time                                    | <= 25 ns                                                                                                                                    |
| Maximum residual current                         | 240 V<br>0.6 mA 240 V                                                                                                                       |
| Connections - terminals                          | Tunnel type terminal (top or bottom) 2.5...25 mm <sup>2</sup> rigid<br>Tunnel type terminal (top or bottom) 4...16 mm <sup>2</sup> flexible |
| Wire stripping length                            | 14 mm                                                                                                                                       |
| Tightening torque                                | 3.5 N.m                                                                                                                                     |

## Environment

|                                       |                                       |
|---------------------------------------|---------------------------------------|
| Standards                             | IEC 61643-11:2011<br>EN 61643-11:2012 |
| Quality labels                        | RCM                                   |
| IP degree of protection               | IP20                                  |
| IK degree of protection               | IK03 conforming to IEC 62262          |
| Pollution degree                      | 2                                     |
| Relative humidity                     | 5...95 % at 55 °C                     |
| Operating altitude                    | 0...2000 m                            |
| Ambient air temperature for operation | -25...70 °C                           |
| Ambient air temperature for storage   | -40...85 °C                           |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Weight             | 132 g     |
| Package 1 Height             | 7.5 cm    |
| Package 1 width              | 2.5 cm    |
| Package 1 Length             | 9.5 cm    |
| Unit Type of Package 2       | BB1       |
| Number of Units in Package 2 | 12        |
| Package 2 Weight             | 1.584 kg  |
| Package 2 Height             | 8.2 cm    |
| Package 2 width              | 27.5 cm   |
| Package 2 Length             | 9.6 cm    |
| Unit Type of Package 3       | CAR       |
| Number of Units in Package 3 | 72        |
| Package 3 Weight             | 10.004 kg |
| Package 3 Height             | 20 cm     |
| Package 3 width              | 30 cm     |
| Package 3 Length             | 40 cm     |

## Offer Sustainability

|                            |                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                             |
| REACH Regulation           |  <a href="#">REACH Declaration</a>             |
| REACH free of SVHC         | Yes                                                                                                                               |
| EU RoHS Directive          | Compliant  <a href="#">EU RoHS Declaration</a> |
| Toxic heavy metal free     | Yes                                                                                                                               |
| Mercury free               | Yes                                                                                                                               |
| RoHS exemption information |  <a href="#">Yes</a>                           |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>        |
| Environmental Disclosure   |  <a href="#">Product Environmental Profile</a> |
| Circularity Profile        |  <a href="#">End Of Life Information</a>       |