

# Technical Characteristics

## Materials & Finishes

|                   |                             |
|-------------------|-----------------------------|
| Frame             | Inox Soft Steel             |
| Side flange       | Polycarbonate               |
| Insulator         | Polycarbonate               |
| Pin & Socket body | Brass (Au/Ni plated)        |
| Socket wires      | Copper alloy (Au/Ni plated) |
| Floating eyelets  | Brass (Ni plated)           |

## Environmental

|                                      |                                   |
|--------------------------------------|-----------------------------------|
| Temperature range                    | -40 °C to +100 °C                 |
| Fire classification                  | Exigence 2 following NF F 16-102  |
| Salt spray test                      | 96 hours                          |
| Acid withstanding                    | Following NF F 61-032 par. 11.4.6 |
| Vibration Withstanding               | 5 g /25 to 250 Hz                 |
| Insulator mechanical resistance      | 1000 N                            |
| Max torque for auto threading screws | 75 Ncm                            |

## Electrical

| Contact Ø                          | 1.50                   | 2.50                   | 3.50                   |
|------------------------------------|------------------------|------------------------|------------------------|
| Creepage distance                  | 1.85 mm                | 2.25 mm                | 4.05 mm                |
| Clearance distance                 | ≈ 1.25 mm              | ≈ 3.4 mm               | ≈ 5.40 mm              |
| Working current                    | 8 A                    | 16 A                   | 25 A                   |
| Insulation resistance              | ≥ 5.10 <sup>3</sup> MΩ | ≥ 5.10 <sup>3</sup> MΩ | ≥ 5.10 <sup>3</sup> MΩ |
| Contact resistance                 | ≤ 2.50 mΩ              | ≤ 1.00 mΩ              | ≤ 0.80 mΩ              |
| Dielectric withstanding voltage    | 1500 Vrms              | 2000 Vrms              | 3000 Vrms              |
| Voltage rating                     | 110 V                  | 220 V                  | 220 V                  |
| Contact holding back in the module | 40 N                   | 50 N                   | 70 N                   |
| Max male contact mass              | 1.10 g                 | 2.90 g                 | 4.90 g                 |
| Max female contact mass            | 0.70 g                 | 1.60 g                 | 2.70 g                 |
| IF/SF* (max value)                 | 1.60 N                 | 9.00 N                 | 10.00 N                |

\* IF/SF: insertion and separation force according to NF F 61-032

# Technical Characteristics

## Electrical

|                      |          |
|----------------------|----------|
| Current rating       | 7.5 A    |
| Contact resistance   | < 3.5 mΩ |
| Withstanding voltage | 2000 V   |

## Mechanical

|                   |             |
|-------------------|-------------|
| Contact rotation  | 70daN.cm    |
| Contact retention | >250N       |
| Contact pull      | >250N       |
| Mating cycles     | >500 cycles |

## Environmental

|                   |                                       |
|-------------------|---------------------------------------|
| Dry heat          | 1000H at 100° C (standard value: 96H) |
| Temperature range | -55° C at +100° C, 5 cycles           |
| Salt spray        | 96H (5% NaCl)                         |
| Damped heat       | 56 days (40° C 90/95% HR)             |
| Fire and Smoke    | According to NF F 16-101, NF F 16-102 |