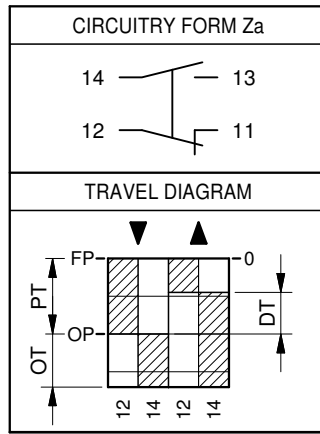
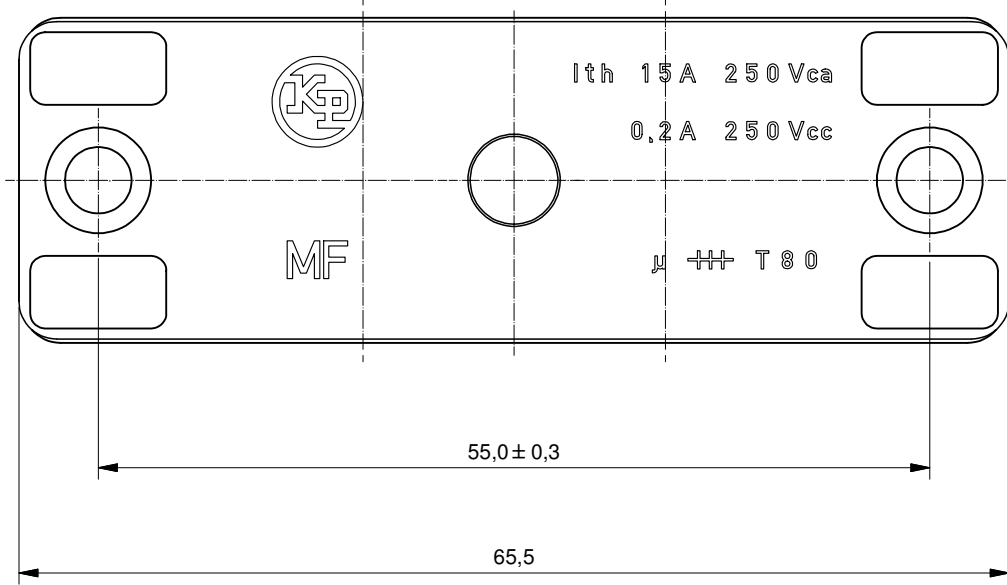
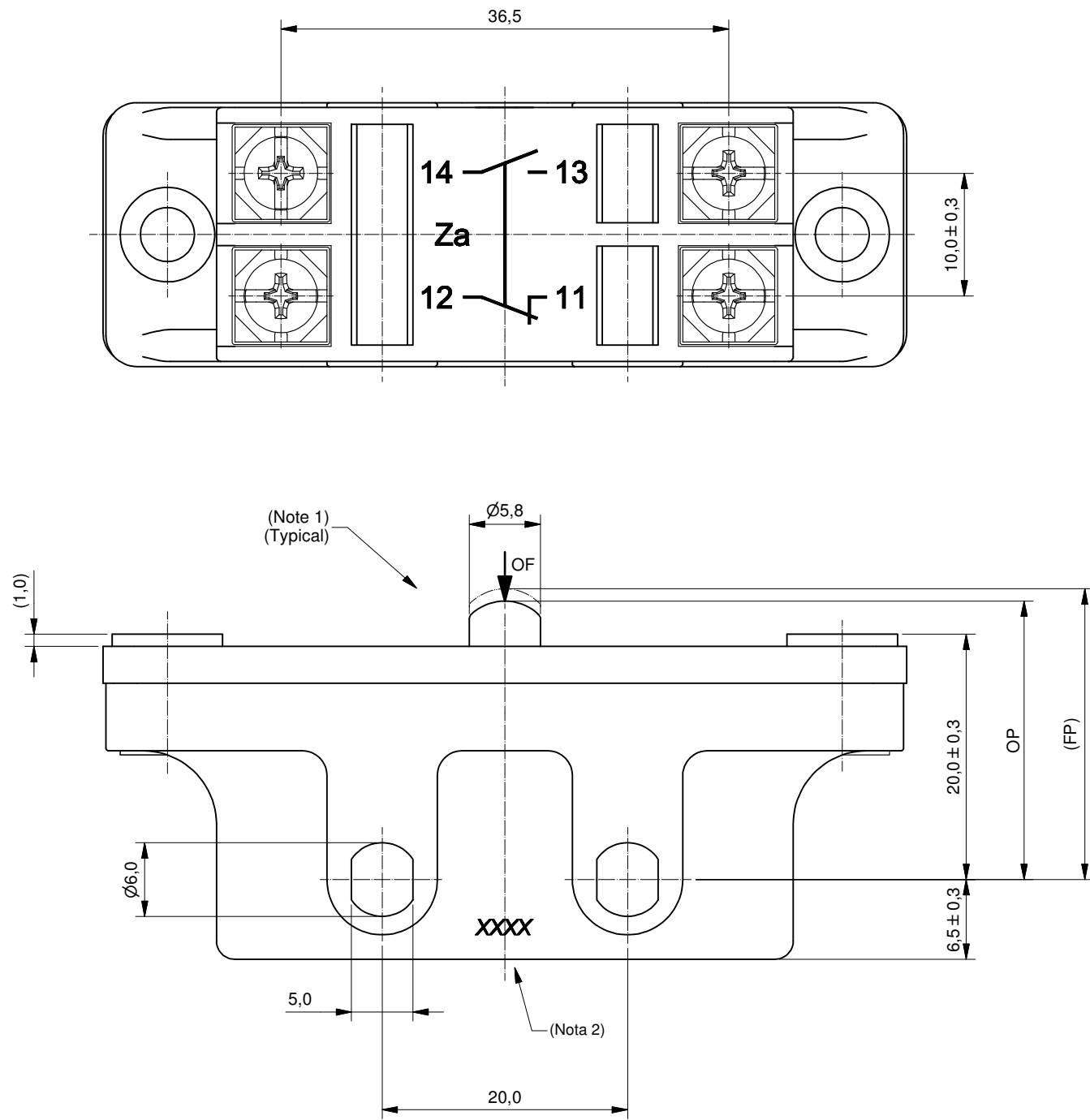
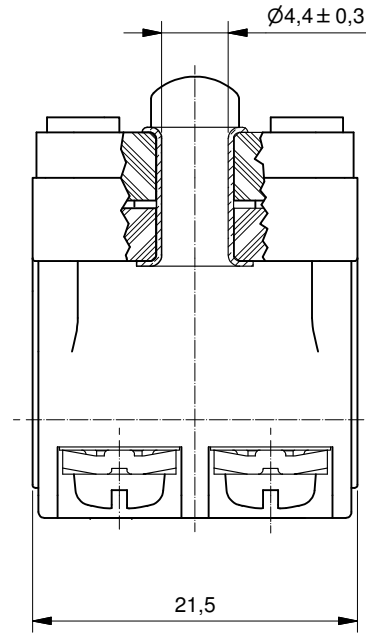


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01

| MECHANICAL CHARACTERISTICS       |                                  | ELECTRICAL CHARACTERISTICS (IEC 60947-5-1) |                              |
|----------------------------------|----------------------------------|--------------------------------------------|------------------------------|
| Operating Force                  | OF ≤ 700 gf                      | Utilization Category                       | AC-15 DC-13                  |
| Release Force                    | RF ≤ 70 gf                       | Designation                                | A300 Q300                    |
| Free Position                    | FP ≤ -- mm                       | Rated Operational Voltage                  | Ue: 250 Vac Ue: 250 Vdc      |
| Pretravel                        | PT ≤ 2,0 mm                      | Rated Operational Current                  | Ie: 5A Ie: 0,2 A             |
| Operation Position               | OP = 22,7±0,8 mm                 | Rated Insulation Voltage                   | Ui: 300 V                    |
| Differential Travel              | DT ≤ 1,1 mm                      | Conventional Free Air Thermal Current      | Ith: 15 A                    |
| Over Travel                      | OT ≥ 1,4 mm                      | Rated Impulse Withstand Voltage            | U imp: 1500 V                |
| Operating Frequency - Mechanical | ≤ 90 cycles/min                  | Rated Conditional Short-circuit Current    | 100 A                        |
| Mechanical Life                  | ≥ 1.000.000 cycles               | Protection Against Short Circuit           | Fuse 10 A 500 V gG           |
|                                  |                                  | Circuit                                    | Form Za (figure 4d)          |
|                                  |                                  | Voltage Frequency                          | 50/60 Hz                     |
|                                  |                                  | Terminal Identification                    | EN 50013                     |
|                                  |                                  | Contact Resistance (at 1 A, 5 Vdc)         | ≤ 50mΩ initial               |
|                                  |                                  | Dielectric Strenght (terminal/ground)      | ≥ 1,5 kV (60 s)              |
|                                  |                                  | Operating Frequency - Electrical           | ≤ 10 cycles/min              |
|                                  |                                  | Electrical Life                            | ≥ 50.000 cycles              |
| CONSTRUCTIVE CHARACTERISTICS     |                                  |                                            |                              |
| Enclosure                        | Reinforced Thermoplastic Black   | Conductor Croos Section                    | 0,5 mm² (AWG20) to 2,5 mm²   |
| Pin Plunger                      | Thermoplastic Low Friction White | (flexible cooper wire)                     | (AWG14)                      |
| Side Fixing (ø6,0x5)             | M5 Screw                         | Terminals - Material                       | Brass / Zinc-plated Steel    |
|                                  | Torque ≤ 0,8 N.m / 7,1 lb.in     | Terminals - Type                           | Bushing / Screw M3,5x8       |
| Top Fixing (ø4,4)                | M4 Screw                         | Fixed contacts (flat; bimetal)             | Flat, silver alloy over E-Cu |
|                                  | Torque ≤ 0,7 N.m / 6,2 lb.in     | Movable contacts                           | Domed, silver Alloy          |
| Degree of Protection (IEC 60529) | IP 00 (at terminals)             | Moving Blade (curved)                      | Cooper alloy (brass)         |
|                                  | IP 40 (except terminals)         | Spring (snap action mechanism)             | Cooper alloy (CuBe)          |
| Ambient Temperature              | +85 °C maximum                   | Spring (return)                            | Zinc-plated Steel            |
|                                  |                                  | Marking                                    | Indelible                    |



NOTES:

- Switch drawn in OP (Operation Position)
  - Production identification: year and week
- Measures between parentheses are auxiliary references

|      |            |       |        |                                                                                                                                                                                                                              |
|------|------------|-------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01   | 16/05/2022 | VMP   | SCC    | OSE 02835/22: Updated specifications excluding from characteristics table: Operation Speed: 1 a 1x10 <sup>6</sup> mm.s <sup>-1</sup> , Insulation Resistance: ≥ 100 MΩ (em 500 Vdc) and Insulation Group: Group C (VDE 0110) |
| 00   | 28/09/2015 | VMP   | SCC    | OSE 2016/15: Edição Oficial.                                                                                                                                                                                                 |
| Rev. | Data       | Resp. | Aprov. | Descrição                                                                                                                                                                                                                    |

|                                                                                       |            |     |  |                                                                                       |                        |                |             |                                                                                       |
|---------------------------------------------------------------------------------------|------------|-----|--|---------------------------------------------------------------------------------------|------------------------|----------------|-------------|---------------------------------------------------------------------------------------|
| Superficial Finish:                                                                   |            |     |  |  | General Specifications |                |             | Critical for Tryout                                                                   |
|                                                                                       |            |     |  |                                                                                       | Scale                  | Tolerance      | Units       |  |
|                                                                                       |            |     |  |                                                                                       | 2:1 (1:1)              | NBR ISO 2768-m | Millimeters |                                                                                       |
| Drawn                                                                                 | 28/09/2015 | VMP |  |                                                                                       |                        |                |             |                                                                                       |
| Appr.                                                                                 | 28/09/2015 | SCC |  |                                                                                       |                        |                |             |                                                                                       |
|  |            |     |  | Switch 1NO+1NC Pin Plunger                                                            |                        | Code           | MFA         |                                                                                       |
|                                                                                       |            |     |  |                                                                                       |                        | N°             | 4110        |                                                                                       |