

## XCSP3902P20

safety limit switch - plastic - roller plunger -  
2NC+1NO - 1entry tapped M20x1.5



### Main

|                               |                                                                      |
|-------------------------------|----------------------------------------------------------------------|
| Range of product              | Preventa Safety detection                                            |
| Product or component type     | Safety limit switch                                                  |
| Component name                | XCSP                                                                 |
| Design                        | Compact                                                              |
| Material                      | Plastic                                                              |
| Head type                     | Plunger head                                                         |
| Protection technology         | Plastic protective cover, secured by 5-lobe socket head safety screw |
| Type of operator              | Steel roller plunger                                                 |
| Contacts type and composition | 1 NC + 1 NC + 1 NO                                                   |
| Contact operation             | Snap action                                                          |
| Cable entry                   | 1 entry tapped M20 x 1.5                                             |

### Complementary

|                                              |                                                                                                                                                                  |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical connection                        | Terminal                                                                                                                                                         |
| Clamping connection capacity                 | 1 x 0.34...2 x 0.75 mm <sup>2</sup>                                                                                                                              |
| Switch actuation                             | By 30° cam                                                                                                                                                       |
| Number of poles                              | 3                                                                                                                                                                |
| Positive opening                             | With NC contact                                                                                                                                                  |
| Mechanical durability                        | 10000000 cycles                                                                                                                                                  |
| Minimum force for tripping                   | 12 N                                                                                                                                                             |
| Positive opening minimum force               | 36 N                                                                                                                                                             |
| Maximum actuation speed                      | 0.5 m/s                                                                                                                                                          |
| Contact code designation                     | B300, AC-15 (Ue = 240 V, Ie = 1.5 A) conforming to EN/IEC 60947-5-1 appendix A<br>R300, DC-13 (Ue = 250 V, Ie = 0.1 A) conforming to EN/IEC 60947-5-1 appendix A |
| [Ithe] conventional enclosed thermal current | 6 A                                                                                                                                                              |
| [Ui] rated insulation voltage                | 400 V (degree of pollution: 3) conforming to EN/IEC 60947-1<br>300 V conforming to UL 508<br>300 V conforming to CSA C22.2 No 14                                 |
| [Uimp] rated impulse withstand voltage       | 4 kV conforming to EN/IEC 60947-1<br>4 kV conforming to IEC 60664                                                                                                |
| Resistance across terminals                  | <= 25 MOhm conforming to IEC 60255-7 category 3                                                                                                                  |
| Short-circuit protection                     | 6 A cartridge fuse type gG (gl)                                                                                                                                  |
| Repeat accuracy                              | 0.1 mm on tripping points, 1 million operating cycles for head with end plunger                                                                                  |
| Body material                                | Plastic                                                                                                                                                          |
| Head material                                | Zamak                                                                                                                                                            |
| Enclosure material                           | Plastic                                                                                                                                                          |
| Depth                                        | 35 mm                                                                                                                                                            |
| Height                                       | 100 mm                                                                                                                                                           |
| Width                                        | 34 mm                                                                                                                                                            |
| Product weight                               | 0.255 kg                                                                                                                                                         |

### Environment

|           |                                                                                      |
|-----------|--------------------------------------------------------------------------------------|
| standards | EN 1088/ISO 14119<br>EN/IEC 60204-1<br>EN/IEC 60947-5-1<br>UL 508<br>CSA C22.2 No 14 |
|-----------|--------------------------------------------------------------------------------------|

The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|                                       |                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| product certifications                | CSA<br>UL                                                                                                                                                                                                                                                                                                                      |
| safety level                          | Can reach category 4 with the appropriate monitoring system and correctly wired conforming to EN/ISO 13849-1<br>Can reach PL = e with the appropriate monitoring system and correctly wired conforming to EN/ISO 13849-1<br>Can reach SIL 3 with the appropriate monitoring system and correctly wired conforming to IEC 61508 |
| safety reliability data               | B10d = 50000000 (value given for a life time of 20 years limited by mechanical or contact wear)                                                                                                                                                                                                                                |
| protective treatment                  | TC                                                                                                                                                                                                                                                                                                                             |
| ambient air temperature for operation | -25...70 °C                                                                                                                                                                                                                                                                                                                    |
| ambient air temperature for storage   | -40...70 °C                                                                                                                                                                                                                                                                                                                    |
| vibration resistance                  | 25 gn (f = 10...500 Hz) conforming to IEC 60068-2-6                                                                                                                                                                                                                                                                            |
| shock resistance                      | 50 gn for 11 ms conforming to IEC 60068-2-27                                                                                                                                                                                                                                                                                   |
| electrical shock protection class     | Class II conforming to EN/IEC 61140<br>Class II conforming to NF C 20-030                                                                                                                                                                                                                                                      |
| IP degree of protection               | IP66 conforming to IEC 60529<br>IP67 conforming to IEC 60529                                                                                                                                                                                                                                                                   |
| IK degree of protection               | IK04 conforming to EN 50102                                                                                                                                                                                                                                                                                                    |

### Offer Sustainability

|                          |                                                                       |
|--------------------------|-----------------------------------------------------------------------|
| Sustainable offer status | Green Premium product                                                 |
| RoHS (date code: YYWW)   | Compliant - since 1103 - Schneider Electric declaration of conformity |
| REACH                    | Reference not containing SVHC above the threshold                     |