



position switch, plastic enclosure according to DIN EN 50047, 31 mm, 1 NO/2 NC quick action contacts, with M12 plug, 5-pole, pin assignment: Pin1=21, Pin4=22 Pin2=31, Pin5=32, for maximum 125 V and 4 A, roller plunger with plastic roller 10 mm, suitable for connection to all SIMATIC ET 200 compact block I/O modules

| | |
|---|--|
| product brand name | SIRIUS |
| product designation | Mechanical position switches |
| product type designation | 3SE5 |
| manufacturer's article number | |
| • of the supplied actuator head for position switches | 3SE5000-0AD03 |
| suitability for use safety switch | Yes |
| General technical data | |
| product function positive opening | Yes |
| insulation voltage rated value | 125 V |
| degree of pollution | class 3 |
| surge voltage resistance rated value | 2 kV |
| protection class IP | IP65 |
| shock resistance | |
| • according to IEC 60068-2-27 | 30 g / 11 ms |
| vibration resistance | |
| • according to IEC 60068-2-6 | 0.35 mm/5 g |
| mechanical service life (operating cycles) typical | 15 000 000 |
| electrical endurance (operating cycles) at AC-15 at 230 V typical | 100 000 |
| thermal current | 4 A |
| material of the enclosure of the switch head | plastic |
| reference code according to IEC 81346-2 | B |
| continuous current of the C characteristic MCB | 1 A; for a short-circuit current smaller than 400 A |
| continuous current of the quick DIAZED fuse link | 4 A; for a short-circuit current smaller than 400 A |
| continuous current of the DIAZED fuse link gG | 4 A |
| active principle | mechanical |
| repeat accuracy | 0.05 mm |
| Substance Prohibitance (Date) | 07/01/2006 |
| SVHC substance name | Lead CAS-No. 7439-92-1 Imidazolidine-2-thione (2-imidazoline-2-thiol) CAS-No. 96-45-7 |
| Net Weight | 0.089 kg |
| minimum actuating force in directions of actuation | 20 N |
| length of the sensor | 89.7 mm |
| width of the sensor | 31 mm |
| Ambient conditions | |
| ambient temperature | |
| • during operation | -25 ... +85 °C |
| • during storage | -40 ... +90 °C |
| explosion protection category for dust | none |
| Main circuit | |

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| design of the switching contact | mechanical | | |
| operating frequency rated value | 50 ... 60 Hz | | |
| number of NC contacts for auxiliary contacts | 2 | | |
| number of NO contacts for auxiliary contacts | 0 | | |
| operational current at AC-15 | | | |
| • at 24 V rated value | 4 A | | |
| • at 125 V rated value | 4 A | | |
| operational current at DC-13 | | | |
| • at 24 V rated value | 3 A | | |
| • at 125 V rated value | 0.55 A | | |
| Enclosure | | | |
| design of the housing | block, narrow | | |
| material of the enclosure | plastic | | |
| coating of the enclosure | Other types | | |
| design of the housing according to standard | Yes | | |
| Drive Head | | | |
| design of the actuating element | Roller plunger, plastic roller | | |
| standard-compliant actuator head | EN 50047, design B | | |
| shape of the switch head | roller | | |
| design of the switching function | positive opening | | |
| circuit principle | snap-action contacts | | |
| number of switching contacts safety-related | 2 | | |
| cable entry type | M12 plug | | |
| design of plug-in connection | M12 connector, 5-pin: Pin 1= terminal 21, pin 2= 31, pin 4= 22, pin 5= 32 | | |
| Installation/ mounting/ dimensions | | | |
| mounting position | any | | |
| fastening method | screw fixing | | |
| Connections/ Terminals | | | |
| type of electrical connection | M12 plug, fixed | | |
| design of the interface for safety-related communication | without | | |
| Communication/ Protocol | | | |
| design of the interface | without | | |
| Safety related data | | | |
| product function suitable for safety function | Yes | | |
| service life maximum | 20 a | | |
| test wear-related service life necessary | Yes | | |
| proportion of dangerous failures | | | |
| • with low demand rate according to SN 31920 | 20 % | | |
| • with high demand rate according to SN 31920 | 20 % | | |
| B10 value with high demand rate according to SN 31920 | 1 000 000 | | |
| failure rate [FIT] with low demand rate according to SN 31920 | 100 FIT | | |
| ISO 13849 | | | |
| device type according to ISO 13849-1 | 3 | | |
| IEC 61508 | | | |
| safety device type according to IEC 61508-2 | A | | |
| Approvals Certificates | | | |
| General Product Approval | Test Certificates | other | Environment |

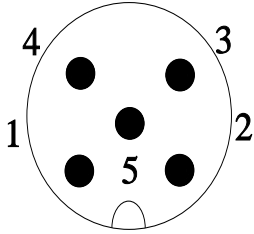


[Type Test Certificates/Test Report](#)

[Confirmation](#)

[Environmental Confirmations](#)

Environment



| | | | |
|---|----------------------|---|------|
| 1 | BN = Brown | → | 21 |
| 2 | WH = White | → | 31 |
| 3 | GN/YE = Green/Yellow | → | n.c. |
| 4 | BK = Black | → | 22 |
| 5 | GY = Grey | → | 32 |

