SIEMENS

Data sheet 3RH2244-1AP00



contactor relay, 4 NO + 4 NC, 230 V AC, 50 / 60 Hz, size S00, screw terminal, captive auxiliary switch

| product brand name | SIRIUS |
|---|----------------------------|
| product designation | Auxiliary contactor |
| product type designation | 3RH2 |
| General technical data | |
| size of contactor | S00 |
| product extension auxiliary switch | No |
| insulation voltage with degree of pollution 3 at AC rated value | 690 V |
| degree of pollution | 3 |
| surge voltage resistance rated value | 6 kV |
| shock resistance at rectangular impulse | |
| • at AC | 7,3g / 5 ms, 4,7g / 10 ms |
| shock resistance with sine pulse | |
| • at AC | 11,4g / 5 ms, 7,3g / 10 ms |
| mechanical service life (operating cycles) | |
| of contactor typical | 10 000 000 |
| reference code according to IEC 81346-2 | K |
| Substance Prohibitance (Date) | 10/01/2009 |
| Ambient conditions | |
| installation altitude at height above sea level maximum | 2 000 m |
| ambient temperature | |
| during operation | -25 +60 °C |
| during storage | -55 +80 °C |
| relative humidity minimum | 10 % |
| relative humidity at 55 °C according to IEC 60068-2-30 maximum | 95 % |
| Main circuit | |
| no-load switching frequency | |
| • at AC | 10 000 1/h |
| • at DC | 10 000 1/h |
| Control circuit/ Control | |
| type of voltage of the control supply voltage | AC |
| control supply voltage at AC | |
| at 50 Hz rated value | 230 V |
| at 60 Hz rated value | 230 V |
| control supply voltage frequency | |
| • 1 rated value | 50 Hz |
| • 2 rated value | 60 Hz |
| operating range factor control supply voltage rated value of magnet coil at AC | |
| ● at 50 Hz | 0.8 1.1 |
| ● at 60 Hz | 0.85 1.1 |

| annaront nick up nower of magnet soil at AC | 37 \/\ |
|---|-----------------|
| apparent pick-up power of magnet coil at AC | 37 VA |
| inductive power factor with closing power of the coil apparent holding power of magnet coil at AC | 0.8 5.7 VA |
| inductive power factor with the holding power of the | 0.25 |
| coil | 0.20 |
| closing delay | |
| • at AC | 8 33 ms |
| opening delay | |
| • at AC | 4 15 ms |
| arcing time | 10 15 ms |
| Auxiliary circuit | |
| number of NC contacts for auxiliary contacts | 4 |
| • instantaneous contact | 4 |
| number of NO contacts for auxiliary contacts | 4 |
| instantaneous contact | 4 |
| identification number and letter for switching elements | 44 E |
| operational current at AC-12 maximum | 10 A |
| operational current at AC-15 | |
| • at 230 V rated value | 6 A |
| • at 400 V rated value | 3 A |
| • at 500 V rated value | 2 A |
| at 690 V rated value | 1 A |
| operational current at 1 current path at DC-12 | 40.4 |
| at 24 V rated value at 110 V rated value | 10 A |
| at 110 V rated value at 220 V rated value | 3 A |
| at 220 V rated value at 440 V rated value | 1 A 0.3 A |
| | |
| at 600 V rated value Operational current with 2 current paths in series at | 0.15 A |
| operational current with 2 current paths in series at DC-12 | |
| at 24 V rated value | 10 A |
| at 60 V rated value | 10 A |
| at 110 V rated value | 4 A |
| at 220 V rated value | 2 A |
| at 440 V rated value | 1.3 A |
| at 600 V rated value | 0.65 A |
| operational current with 3 current paths in series at DC-12 | |
| • at 24 V rated value | 10 A |
| • at 60 V rated value | 10 A |
| • at 110 V rated value | 10 A |
| • at 220 V rated value | 3.6 A |
| • at 440 V rated value | 2.5 A |
| • at 600 V rated value | 1.8 A |
| operating frequency at DC-12 maximum | 1 000 1/h |
| operational current at 1 current path at DC-13 | C A |
| at 24 V rated value at 110 V rated value | 6 A |
| at 110 V rated value at 230 V rated value | 1 A |
| at 220 V rated value at 440 V rated value | 0.3 A |
| at 440 V rated value at 600 V rated value | 0.14 A 0.1 A |
| | ULIA |
| operational current with 2 current paths in series at DC-13 | 10.0 |
| at 24 V rated value at 60 V rated value | 10 A |
| at 60 V rated value at 110 V rated value | 3.5 A 1.3 A |
| at 110 V rated value at 220 V rated value | |
| at 220 V rated value at 440 V rated value | 0.9 A 0.2 A |
| at 440 V rated value at 600 V rated value | 0.2 A 0.1 A |
| operational current with 3 current paths in series at | V.171 |
| DC-13 | |
| • at 24 V rated value | 10 A |
| at 60 V rated value | 4.7 A |
| at 110 V rated value | 3 A |

• at 220 V rated value 1.2 A 0.5 A at 440 V rated value • at 600 V rated value 0.26 A operating frequency at DC-13 maximum 1 000 1/h design of the miniature circuit breaker for short-circuit C characteristic: 6 A: 0.4 kA protection of the auxiliary circuit up to 230 V contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection design of the fuse link for short-circuit protection of the fuse gL/gG: 10 A auxiliary switch required Installation/ mounting/ dimensions +/-180° rotation possible on vertical mounting surface; can be tilted mounting position forward and backward by +/- 22.5° on vertical mounting surface fastening method screw and snap-on mounting onto 35 mm DIN rail 57.5 mm height width 45 mm depth 117 mm required spacing • with side-by-side mounting 10 mm - forwards - upwards 10 mm - downwards 10 mm - at the side 0 mm · for grounded parts forwards 10 mm 10 mm - upwards - at the side 6 mm downwards 10 mm · for live parts - forwards 10 mm 10 mm - upwards 10 mm — downwards - at the side 6 mm type of electrical connection for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections · for auxiliary contacts solid or stranded 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), 2x 4 mm² - finely stranded with core end processing 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) • at AWG cables for auxiliary contacts 2x (20 ... 16), 2x (18 ... 14), 2x 12 Safety related data product function positively driven operation according to Yes IEC 60947-5-1 B10 value with high demand rate according to SN 31920 1 000 000; With 0.3 x le proportion of dangerous failures • with low demand rate according to SN 31920 40 % • with high demand rate according to SN 31920 73 % failure rate [FIT] with low demand rate according to SN 100 FIT T1 value for proof test interval or service life according to 20 y IEC 61508 protection class IP on the front according to IEC IP20 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front

Certificates/ approvals

General Product Approval





Confirmation



<u>KC</u>



EMC

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













Marine / Shipping

other

Railway



Confirmation



Vibration and Shock

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RH2244-1AP00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2244-1AP00

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RH2244-1AP00

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

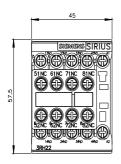
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2244-1AP00&lang=en

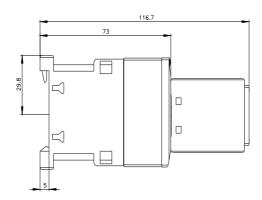
Characteristic: Tripping characteristics, I2t, Let-through current

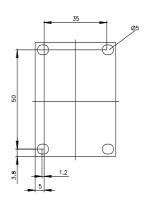
https://support.industry.siemens.com/cs/ww/en/ps/3RH2244-1AP00/char

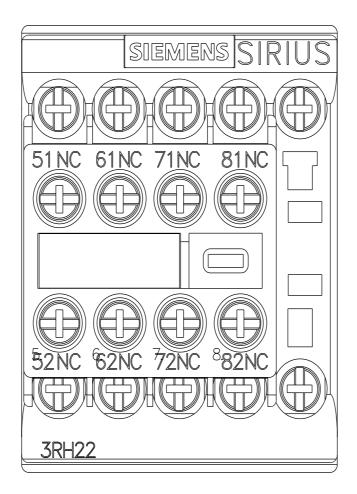
Further characteristics (e.g. electrical endurance, switching frequency)

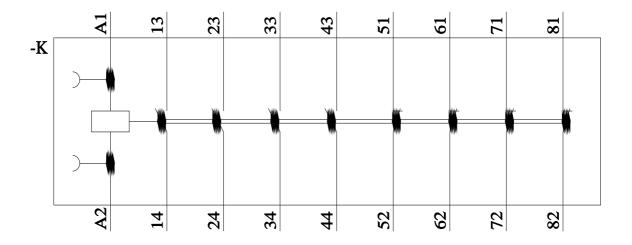
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2244-1AP00&objecttype=14&gridview=view1











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