SIEMENS

Data sheet 3RP2025-1AP30



Timing relay, electronic slow-operating 1 change-over contact 24 V AC/DC, 200 to 240 V AC at 50/60 Hz AC 0.05 s to 100 h Overall width 45 mm screw terminal

| product brand name | SIRIUS |
|---|--|
| product designation | timing relay |
| design of the product | slow-operating |
| product type designation | 3RP20 |
| General technical data | |
| product component | |
| relay output | Yes |
| • semi-conductor output | No |
| product extension required remote control | No |
| product extension optional remote control | No |
| power loss [W] maximum | 2 W |
| insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value | 300 V |
| test voltage for isolation test | 2 kV |
| degree of pollution | 3 |
| surge voltage resistance rated value | 4 000 V |
| shock resistance according to IEC 60068-2-27 | 11g / 15 ms |
| mechanical service life (operating cycles) typical | 10 000 000 |
| electrical endurance (operating cycles) at AC-15 at 230 V typical | 100 000 |
| adjustable time | 0.05 s 100 h |
| relative setting accuracy relating to full-scale value | 5 %; +/- |
| thermal current | 5 A |
| recovery time | 150 ms |
| reference code according to IEC 81346-2 | К |
| relative repeat accuracy | 1 %; +/- |
| influence of the surrounding temperature | ±5 % |
| power supply influence | ±1 % |
| Substance Prohibitance (Date) | 05/01/2012 |
| SVHC substance name | Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Lead titanium zirconium oxide - 12626-81-2 |
| Control circuit/ Control | |
| type of voltage of the control supply voltage | AC/DC |
| control supply voltage 1 at AC | |
| • at 50 Hz rated value | 24 V |
| at 60 Hz rated value | 24 V |
| control supply voltage 2 at AC | |
| • at 50 Hz | 200 240 V |
| • at 60 Hz | 200 240 V |
| control supply voltage frequency 1 | 50 60 Hz |

| e-rated value Operating range factor control supply voltage rated value at Discovering range factor control supply voltage rated value * full-scale value * full-sca | control supply voltage 4 at DC | |
|--|--|-----------------|
| operating range factor control supply voltage rated value at 0.85 * full-scale value | control supply voltage 1 at DC | 24 V |
| initial value initia | | 27 V |
| # unit-scale value 1.1 | | |
| Aperating range factor control supply voltage rated value at A at 30 Hz. • Initial value 0.85 1.1 operating range factor control supply voltage rated value at AC at 40 Hz. operating range factor control supply voltage rated value at CA at 40 Hz. • Initial value 0.85 1.1 • ON-delay instantaneous contact No • ON-delay instantaneous contact No • ON-delay instantaneous contact No • OR-delay instantaneous contact No • Ossair gamake contact/instantaneous contact No • Ossair gamake contact/instantaneous contact No • Ossair gammetically with interval start No • Isashing asymmetically with interval start No • Isashing asymmetically with pulse start No • Isashing | • initial value | 0.85 |
| AC at 50 Hz Initial value Initial | • full-scale value | 1.1 |
| # full-scale value operating range factor control supply voltage rated value at AC at 40 MV initial value 0.85 full-scale value 1.1 Switching Function **Switching Function **Switching Function **ON-delay Ves **ON-delay visitantaneous contact **passing make contact **passing make contact **ON-delay visitantaneous contact **ON-delay visitantaneous contact **ON-delay visitantaneous contact **Switching function **passing make contact **Switching function **Inabiting symmetrically with interval start visitantaneous **Inabiting symmetrically with interval start visitantaneous **Inabiting symmetrically with pulse start **Inabiting symmetrically with delay time ***star-delta circuit **Inabiting symmetrically with delay time ***star-delta circuit ***No **switching function with central signal ***passing preak contact ***pulse shaping ***pulse shaping | | |
| Control of the process of the control of the poly working rated value at AC at 60 Hz. | • initial value | 0.85 |
| AC at 60 Hz initial value initial | full-scale value | 1.1 |
| * Authorization pronoction * ON-delay function * ON-delay/instantaneous contact * Passing make contact/instantaneous contact * passing make contact/instantaneous contact * Passing make contact/instantaneous contact * OFF delay * Switching function * flashing symmetrically with interval start/instantaneous * flashing symmetrically with interval start/instantaneous * flashing symmetrically with pulse start/instantaneous * flashing symmetrically with pulse start * flashing symmetrical | | |
| switching Function volvelety function volvelety (ves) volvelety/instantaneous contact volvelety/instantaneous contact volvelety/instantaneous contact volvelety/instantaneous contact volvelety/instantaneous contact volvelety/instantaneous contact volvelety/instantaneous volvelety/instan | initial value | 0.85 |
| witching function ON-delay instantaneous contact Passing make contact Passing make contact No passing make contact/instantaneous contact Passing make contact/instantaneous contact Passing make contact/instantaneous contact Passing make contact/instantaneous contact Passing symmetrically with interval start/instantaneous Passing symmetrically with interval start Passing symmetrically with interval start Passing symmetrically with pulse start Passing asymmetrically with pulse start Passing asymmetrically with interval start Passing asymmetrically with interval start Passing asymmetrically with pulse start Passing symmetrically with pulse start Passing symmetrically with pulse start Passing function Passing function Passing function Passing break contact Passing break contact Passing break contact Passing break contact Passing break contact/instantaneous Passing break contact/instantaneous Passing break contact Passing make contact Passing make contact Passing make contact Passing make contact No Passing make contact Passing make contact No Passing make contact No Passing make contact No Passing make contact Passing make contact No Passing mak | full-scale value | 1.1 |
| ON-delay/instantaneous contact ON-delay/instantaneous contact Passing make contact/instantaneous contact Passing make contact/instantaneous contact OFF delay Switching function Isashing symmetrically with interval start/instantaneous Isashing symmetrically with pulse start/instantaneous Isashing symmetrically with pulse start instantaneous Isashing asymmetrically with pulse start Isashing asymm | Switching Function | |
| ON-delay/instantaneous contact passing make contact No OFF delay witching function flashing symmetrically with interval start/instantaneous flashing symmetrically with interval start No flashing symmetrically with pulse start/instantaneous flashing symmetrically with pulse start/instantaneous flashing symmetrically with pulse start No flashing symmetrically with pulse start No flashing asymmetrically with pulse start No switching function star-delta circuit No ostar-delta circuit No ostar | switching function | |
| passing make contact passing make contact/instantaneous contact passing make contact/instantaneous contact passing make contact/instantaneous provided by the control signal provided by the control by the control signal provided by the control by the control signal provid | ON-delay | Yes |
| passing make contact/instantaneous contact OFF delay switching function flashing symmetrically with interval start/instantaneous flashing symmetrically with pulse start No flashing symmetrically with pulse start flashing asymmetrically with pulse start No start-delat circuit with delay time star-delta circuit No switching function start-delta circuit No switching function with control signal additive ON-delay passing break contact passing break contact passing break contact No OFF delay OFF de | ON-delay/instantaneous contact | No |
| Switching function • flashing symmetrically with interval start/instantaneous • flashing symmetrically with pulse start instantaneous • flashing symmetrically with pulse start instantaneous • flashing asymmetrically with pulse start instantaneous • star-delta circuit with delay time • star-delta circuit with delay time • star-delta circuit with delay time • star-delta circuit with control signal • additive ON-delay • passing break contact • passing break contact instantaneous • OFF delay • pulse delayed • pulse delayed • pulse delayed • pulse delayed • pulse shaping • pulse-shaping instantaneous • pulse-shaping instantaneous • pulse-shaping instantaneous • pulse-shaping instantaneous • additive ON-delay/instantaneous • oN-delay/OFF-delay/instantaneous • No • passing make contact • passing make contact • retrotriggerable with deactivated control signal • retrotriggerable with switched-on control signal • retrotriggerable with switche | passing make contact | No |
| ### Switching function ### flashing symmetrically with interval start/instantaneous ### flashing symmetrically with pulse start | passing make contact/instantaneous contact | No |
| flashing symmetrically with interval start No | OFF delay | No |
| flashing symmetrically with interval start No | switching function | |
| flashing symmetrically with pulse start //instantaneous flashing symmetrically with pulse start | • flashing symmetrically with interval start/instantaneous | No |
| flashing symmetrically with pulse start No | flashing symmetrically with interval start | No |
| • flashing asymmetrically with interval start No • flashing asymmetrically with pulse start No switching function • star-delta circuit with delay time No • star-delta circuit with delay time No • star-delta circuit with control signal • additive ON-delay No • passing break contact No • pulse delayed No • pulse delayed No • pulse delayed No • pulse-shaping No • passing make contact No • passing make contact • retrotriggerable with deactivated control signal • retrotriggerable with deactivated control signal • retrotriggerable with deactivated control signal • retrotriggerable with switched-on control signal Mo Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Auxiliary circuit material of switching contacts • delayed switching • lead of switching • lea | • flashing symmetrically with pulse start/instantaneous | No |
| • flashing asymmetrically with pulse start switching function • star-delta circuit with delay time • star-delta circuit with delay time • star-delta circuit switching function with control signal • additive ON-delay • passing break contact • passing break contact/instantaneous • OFF delay • OFF delay/instantaneous • pulse delayed/instantaneous • pulse delayed/instantaneous • pulse-shaping • pulse-shaping/instantaneous • ON-delay/OFF-delay/instantaneous • ON-delay/OFF-delay/instantaneous • ON-delay/OFF-delay/instantaneous • ON-delay/OFF-delay/instantaneous • ON-delay/OFF-delay/instantaneous • ON-delay/OFF-delay/instantaneous • Instantaneous contact • passing make contact • passing make contact/instantaneous contact switching function of interval relay with control signal • retrotriggerable with deactivated control signal instantaneous contact • retrotriggerable with switched-on control signal • retrotriggerable with deactivated control signal • retrotriggerable wit | flashing symmetrically with pulse start | No |
| switching function • star-delta circuit with delay time • star-delta circuit with control signal • additive ON-delay • passing break contact • passing break contact/instantaneous • OFF delay • OFF delay • OFF delay/instantaneous • pulse delayed/instantaneous • pulse-shaping • pulse-shaping • No • pulse-shaping/instantaneous • ON-delay/OFF-delay/instantaneous • ON-delay/OFF-delay/instantaneous • ON-delay/OFF-delay/instantaneous • ON-delay/OFF-delay/instantaneous • No • passing make contact • No • passing make contact/instantaneous contact No switching function of interval relay with control signal • retrotriggerable with deactivated control signal/instantaneous contact • retrotriggerable with switched-on control signal • retrotriggerable with deactivated control signal • retrotriggerable with switched-on control signal • retrotriggerable with deactivated control signal • retrotriggerable with switched-on control signal • retrotriggerable with | flashing asymmetrically with interval start | No |
| switching function • star-delta circuit with delay time • star-delta circuit with control signal • additive ON-delay • passing break contact • passing break contact/instantaneous • OFF delay • OFF delay • OFF delay/instantaneous • pulse delayed/instantaneous • pulse-shaping • pulse-shaping • No • pulse-shaping/instantaneous • ON-delay/OFF-delay/instantaneous • ON-delay/OFF-delay/instantaneous • ON-delay/OFF-delay/instantaneous • ON-delay/OFF-delay/instantaneous • No • passing make contact • No • passing make contact/instantaneous contact No switching function of interval relay with control signal • retrotriggerable with deactivated control signal/instantaneous contact • retrotriggerable with switched-on control signal • retrotriggerable with deactivated control signal • retrotriggerable with switched-on control signal • retrotriggerable with deactivated control signal • retrotriggerable with switched-on control signal • retrotriggerable with | flashing asymmetrically with pulse start | No |
| star-delta circuit with delay time star-delta circuit switching function with control signal additive ON-delay passing break contact passing break contact/instantaneous OFF delay OFF delay OFF delay OFF delay No pulse delayed No pulse delayed No pulse shaping pulse-shaping No ON-delay/instantaneous Additive ON-delay/instantaneous Additive ON-delay/instantaneous ON-delay/oFF-delay/instantaneous Additive ON-delay/instantaneous Additive ON-delay/instantaneous Additive ON-delay/instantaneous Additive ON-delay/instantaneous Additive ON-delay/instantaneous Apassing make contact/instantaneous Apassing make contact/instantaneous contact Apassing make contact/instantaneous contact Apassing function of interval relay with control signal Fertortinggerable with deactivated control Signal/instantaneous contact Fertortinggerable with switched-on control signal Fertortinggerable with switched-on control signal Fertortinggerable with deactivated control Signal/instantaneous contact Fertortinggerable with switched-on control Signal/instantaneous contact Fertortinggerable with switched-on control Signal/instantaneous contact Fertortinggerable with deactivated control Signal/instantaneous contact Fertortinggerable with switched-on control Signal/instantaneous contact Fertortinggerable with switched-on control Signal/instantaneous contact Fertortinggerable with switched-on control Signal/instantaneous contact Full Market Auxiliary circuit Material of switching contacts AgSnO2 number of NC contacts Gelayed switching Gelayed Switchi | | |
| star-delta circuit switching function with control signal | - | No |
| additive ON-delay passing break contact passing break contact/instantaneous OFF delay OFF delay OFF delay OFF delay OFF delay/instantaneous pulse delayed pulse delayed/instantaneous of pulse-shaping OFF delay/instantaneous of pulse-shaping OFF delay/instantaneous of pulse-shaping/instantaneous of pulse-shaping/instantaneous of pulse-shaping/instantaneous of oN-delay/OFF-delay/instantaneous of ON-delay/OFF-delay/instantaneous of ON-delay/OFF-delay/instantaneous of passing make contact of passing make contact/instantaneous contact No Switching function of interval relay with control signal or retrotriggerable with switched-on control signal or retrotriggerable with switched-on control signal or retrotriggerable with switched-on control signal/instantaneous contact or retriggerable with switched-on control signal/instantaneous contact or retriggerable with deactivated control signal No Short-circult protection design of the fuse link for short-circuit protection of the auxiliary switch required Auxiliary circuit material of switching contacts of delayed switching of contacts of delayed switching of instantaneous contact of the fuse link for short-direction of the auxiliary switched on the switching of the fuse link for short-direction of the auxiliary switching of the fuse link for short-direction of the auxiliary switching of the fuse link for short-direction of the auxiliary switching of the fuse link for short-direction of the auxiliary switching of the fuse link for short-direction of the auxiliary switching of the fuse link for short-direction of the auxiliary switching of the fuse link for short-direction of the auxiliary switching of the fuse link for short-direction of the auxiliary switching of the fuse link for short-direction of the auxiliary switching of the fuse link for | • | No |
| passing break contact passing break contact/instantaneous No OFF delay No OFF delay/instantaneous pulse delayed No pulse delayed No pulse delayed/instantaneous No pulse-shaping No pulse-shaping/instantaneous Additive ON-delay/instantaneous Additive ON-delay/instantaneous Additive ON-delay/instantaneous Additive ON-delay/instantaneous Additive ON-delay/instantaneous Ano Additive ON-delay/instantaneous Ano Aussing make contact Ano switching function of interval relay with control signal Are tertortriggerable with deactivated control signal/instantaneous contact Are retrotriggerable with switched-on control signal Are retrotriggerable with deactivated control signal/instantaneous contact Are retrotriggerable with deactivated control signal And Retrotriggerable with deactivated control signal Ano And Retrotriggerable with deactivated control signal Ano And Retrotriggerable with deactivated contro | switching function with control signal | |
| passing break contact/instantaneous passing break contact/instantaneous OFF delay OFF delay No OFF delay No pulse delayed No pulse delayed pulse shaping No pulse-shaping No outlet oN-delay/instantaneous outlet No switching function of interval relay with control signal our ertortriggerable with deactivated control signal/instantaneous contact our ertortriggerable with switched-on control signal our ertortriggerable with switched-on control signal/instantaneous contact our ertortriggerable with switched-on control signal/instantaneous contact our ertortriggerable with feactivated control signal/instantaneous contact our ertortriggerable with switched-on control signal/instantaneous contact our ertortriggerable with switched-on control signal/instantaneous contact our ertortriggerable with feactivated control signal No Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Auxiliary circuit material of switching contacts our delayed switching our design of the fuse link for short-circuit protection of the auxiliary switch required Auxiliary circuit material of switching contacts our delayed switching our design of the fuse link for short-circuit protection of the auxiliary switch required | additive ON-delay | No |
| passing break contact/instantaneous OFF delay OFF delay OFF delay OFF delay/instantaneous pulse delayed No pulse delayed No pulse-shaping No pulse-shaping No oH-delay/instantaneous No ON-delay/OFF-delay/instantaneous ON-delay/OFF-delay/instantaneous No ON-delay/OFF-delay/instantaneous No passing make contact No passing make contact In No switching function of interval relay with control signal oretrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with switched-on control signal oretrotriggerable with switched-on control signal/instantaneous contact retrotriggerable with switched-on control signal/instantaneous contact Ro retrotriggerable with switched-on control signal/instantaneous contact Ro synchology Auxiliary circuit material of switching contacts delayed switching of Contacts delayed switching of No signal/instantaneous contact O oinstantaneous contact | • | No |
| OFF delay OFF delay/instantaneous OFF delay/instantan | passing break contact/instantaneous | No |
| OFF delay/instantaneous pulse delayed pulse delayed/instantaneous pulse-shaping pulse-shaping pulse-shaping/instantaneous additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous No ON-delay/OFF-delay/instantaneous passing make contact passing make contact passing make contact/instantaneous contact No switching function of interval relay with control signal retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal/instantaneous contact retriggerable with deactivated control signal No sertotriggerable with switched-on control signal/instantaneous contact retriggerable with deactivated control signal No Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Auxiliary circuit material of switching contacts delayed switching instantaneous contact olimitary circuit olimitary circuit material of switching contacts delayed switching olimitary circuit olimitary circuit material of switching contacts olimitary circuit olimitary | | No |
| pulse delayed pulse delayed/instantaneous No pulse-shaping No pulse-shaping/instantaneous No additive ON-delay/instantaneous No ON-delay/OFF-delay/instantaneous No passing make contact No passing make contact/instantaneous contact No switching function of interval relay with control signal retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with deactivated control signal No signal/instantaneous contact retriggerable with deactivated control signal No Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Auxiliary circuit material of switching contacts delayed switching contacts delayed switching o instantaneous contact o | OFF delay/instantaneous | No |
| pulse-shaping pulse-shaping pulse-shaping/instantaneous p | | |
| pulse-shaping pulse-shaping/instantaneous Additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous No passing make contact passing make contact/instantaneous contact passing make contact/instantaneous contact passing function of interval relay with control signal retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal/instantaneous contact retriggerable with deactivated control signal No Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Auxiliary circuit material of switching contacts delayed switching o instantaneous contact 0 instantaneous contact | | |
| pulse-shaping/instantaneous additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous passing make contact passing make contact passing make contact/instantaneous contact pretrotriggerable with deactivated control signal pretrotriggerable with switched-on control signal pretrotriggerable with switched-on control signal pretrotriggerable with switched-on control signal pretrotriggerable with deactivated control signal pretrotriggerable with switched-on control pretrot | | |
| additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous Passing make contact No passing make contact/instantaneous contact No switching function of interval relay with control signal retrotriggerable with deactivated control signal retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal/instantaneous contact retriggerable with deactivated control signal/instantaneous contact retriggerable with deactivated control signal No Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Auxiliary circuit material of switching contacts elayed switching elayed switching olimitantaneous contact 0 | · · · · · · · · · · · · · · · · · · · | |
| ON-delay/OFF-delay/instantaneous passing make contact passing make contact passing make contact/instantaneous contact No switching function of interval relay with control signal retrotriggerable with deactivated control signal retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal/instantaneous contact retriggerable with deactivated control signal No retriggerable with deactivated control signal No Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Auxiliary circuit material of switching contacts delayed switching elayed switching olimitantaneous contact olimitantaneous contact No AgSnO2 number of NC contacts elayed switching olimitantaneous contact olimitantaneous contact | · · · · · · · · · · · · · · · · · · · | |
| passing make contact passing make contact/instantaneous contact No switching function of interval relay with control signal retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal/instantaneous contact retriggerable with deactivated control signal No Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Auxiliary circuit material of switching contacts delayed switching instantaneous contact 0 instantaneous contact | • | |
| passing make contact/instantaneous contact switching function of interval relay with control signal retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal/instantaneous contact retrotriggerable with deactivated control signal/instantaneous contact retriggerable with deactivated control signal No Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Auxiliary circuit material of switching contacts delayed switching delayed switching instantaneous contact o no no no no no no no no no | · · · · · · · · · · · · · · · · · · · | |
| switching function of interval relay with control signal • retrotriggerable with deactivated control signal No • retrotriggerable with switched-on control signal No • retrotriggerable with switched-on control signal No • retrotriggerable with switched-on control signal No • retriggerable with deactivated control signal No Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Auxiliary circuit material of switching contacts • delayed switching • instantaneous contact • instantaneous contact 0 | | |
| retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with switched-on control signal retrotriggerable with switched-on control retrotriggerable with switched-on control signal/instantaneous contact retriggerable with deactivated control signal No Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Auxiliary circuit material of switching contacts delayed switching o instantaneous contact 0 | | |
| signal/instantaneous contact • retrotriggerable with switched-on control signal • retrotriggerable with switched-on control signal/instantaneous contact • retriggerable with deactivated control signal No Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Auxiliary circuit material of switching contacts • delayed switching • instantaneous contact • instantaneous contact • retriggerable with switched-on control No No Short-circuit protection No Availiary fuse gL/gG: 4 A SSnO2 O • instantaneous contacts O O • instantaneous contact O | | No |
| retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal/instantaneous contact retriggerable with deactivated control signal No Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Auxiliary circuit material of switching contacts number of NC contacts delayed switching instantaneous contact instantaneous contact O No No No Availiary fuse gL/gG: 4 A AgSnO2 AgSnO2 O instantaneous contact O O instantaneous contact O No No No No No No No No No | | 110 |
| retrotriggerable with switched-on control signal/instantaneous contact retriggerable with deactivated control signal Roo Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Auxiliary circuit material of switching contacts number of NC contacts delayed switching instantaneous contact 0 instantaneous contact | | No |
| signal/instantaneous contact • retriggerable with deactivated control signal Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Auxiliary circuit material of switching contacts number of NC contacts • delayed switching • instantaneous contact 10 | | No |
| Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Auxiliary circuit material of switching contacts of the fuse gL/gG: 4 A AgSnO2 number of NC contacts of delayed switching of instantaneous contact of the auxiliary fuse gL/gG: 4 A fuse gL/gG: 4 A fuse gL/gG: 4 A agsnO2 of the fuse link for short-circuit protection of the auxiliary fuse gL/gG: 4 A fuse gL/gG: 4 A agsnO2 of the fuse gL/gG: 4 A agsnO | | |
| design of the fuse link for short-circuit protection of the auxiliary switch required Auxiliary circuit material of switching contacts o delayed switching instantaneous contact fuse gL/gG: 4 A AgSnO2 AgSnO2 0 0 | | No |
| switch required Auxiliary circuit material of switching contacts otherwise AgSnO2 number of NC contacts otherwise delayed switching otherwise instantaneous contact 0 | Short-circuit protection | |
| material of switching contacts number of NC contacts eleayed switching oleayed switching instantaneous contact AgSnO2 0 | switch required | fuse gL/gG: 4 A |
| number of NC contacts • delayed switching • instantaneous contact 0 | Auxiliary circuit | |
| delayed switching instantaneous contact 0 | material of switching contacts | AgSnO2 |
| • instantaneous contact 0 | number of NC contacts | |
| | delayed switching | 0 |
| number of NO contacts | • instantaneous contact | 0 |
| Humber of 140 Collidate | number of NO contacts | |
| • delayed switching 0 | delayed switching | 0 |

| instantaneous contact | 0 |
|---|---|
| | 0 |
| number of CO contacts | 4 |
| delayed switching | 1 |
| • instantaneous contact | 0 |
| operational current of auxiliary contacts at AC-15 | 2.4 |
| • at 24 V | 3 A |
| • at 250 V | 3 A |
| operational current of auxiliary contacts at DC-13 | |
| • at 24 V | 1.4 |
| • at 125 V | 0.2 A |
| • at 250 V | 0.1 A |
| operating frequency with 3RT2 contactor maximum | 5 000 1/h |
| contact reliability of auxiliary contacts | one incorrect switching operation of 100 million switching operations (17 V, 5 mA) |
| contact rating of auxiliary contacts according to UL | R300 / B300 |
| Inputs/ Outputs | |
| product function | |
| non-volatile | No |
| Electromagnetic compatibility | |
| EMC emitted interference according to IEC 61812-1 | EN 61000-6-4(3) |
| EMC immunity according to IEC 61812-1 | EN 61000-6-2 |
| conducted interference | |
| due to burst according to IEC 61000-4-4 | 2 kV network connection / 1 kV control connection |
| due to conductor-earth surge according to IEC 61000-4-5 | 2 kV |
| due to conductor-conductor surge according to IEC 61000-4-5 | 1 kV |
| field-based interference according to IEC 61000-4-3 | 10 V/m |
| electrostatic discharge according to IEC 61000-4-2 | 4 kV contact discharge / 8 kV air discharge |
| Safety related data | |
| category according to EN 954-1 | none |
| Electrical Safety | |
| protection class IP on the front according to IEC 60529 | IP20 |
| touch protection on the front according to IEC 60529 | finger-safe, for vertical contact from the front |
| type of insulation | Basic insulation |
| Connections/ Terminals | |
| | |
| product component removable terminal for auxiliary and control circuit | No |
| | No screw-type terminals |
| control circuit | |
| type of electrical connection for auxiliary and control circuit | |
| type of connectable conductor cross-sections | screw-type terminals |
| type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid | screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) |
| type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing | screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) |
| type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid | 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) |
| type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded | 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) |
| type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded connectable conductor cross-section | screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14) |
| type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded connectable conductor cross-section • solid | screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14) 0.5 2.5 mm² |
| type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections | screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14) 0.5 2.5 mm² |
| type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections | screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14) 0.5 2.5 mm² 0.5 2.5 mm² |
| type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections | screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14) 0.5 2.5 mm² 0.5 2.5 mm² |
| type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections | screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14) 0.5 2.5 mm² 0.5 2.5 mm² 18 14 18 14 |
| type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections | screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14) 0.5 2.5 mm² 0.5 2.5 mm² 18 14 18 14 0.8 1.2 N·m |
| type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections | screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14) 0.5 2.5 mm² 0.5 2.5 mm² 18 14 18 14 0.8 1.2 N·m |
| type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections | screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14) 0.5 2.5 mm² 0.5 2.5 mm² 18 14 18 14 0.8 1.2 N·m M3 |
| type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections | screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14) 0.5 2.5 mm² 0.5 2.5 mm² 18 14 18 14 0.8 1.2 N·m M3 |
| type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections | screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14) 0.5 2.5 mm² 0.5 2.5 mm² 18 14 18 14 0.8 1.2 N·m M3 any screw and snap-on mounting onto 35 mm DIN rail |
| type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections | screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14) 0.5 2.5 mm² 0.5 2.5 mm² 18 14 18 14 0.8 1.2 N·m M3 any screw and snap-on mounting onto 35 mm DIN rail 57 mm |
| type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections | screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14) 0.5 2.5 mm² 0.5 2.5 mm² 18 14 18 14 0.8 1.2 N·m M3 any screw and snap-on mounting onto 35 mm DIN rail 57 mm 45 mm |
| type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections | screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14) 0.5 2.5 mm² 0.5 2.5 mm² 18 14 18 14 0.8 1.2 N·m M3 any screw and snap-on mounting onto 35 mm DIN rail 57 mm 45 mm |
| type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections | screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14) 0.5 2.5 mm² 0.5 2.5 mm² 18 14 18 14 0.8 1.2 N·m M3 any screw and snap-on mounting onto 35 mm DIN rail 57 mm 45 mm |

| — upwards | 0 mm |
|---|------------|
| — downwards | 0 mm |
| — at the side | 0 mm |
| for grounded parts | |
| — forwards | 0 mm |
| — backwards | 0 mm |
| — upwards | 0 mm |
| — at the side | 0 mm |
| — downwards | 0 mm |
| for live parts | |
| — forwards | 0 mm |
| — backwards | 0 mm |
| — upwards | 0 mm |
| — downwards | 0 mm |
| — at the side | 0 mm |
| Ambient conditions | |
| installation altitude at height above sea level maximum | 2 000 m |
| ambient temperature | |
| during operation | -25 +60 °C |
| during storage | -40 +85 °C |
| during transport | -40 +85 °C |
| relative humidity during operation | 10 95 % |
| Approvals Certificates | |

Approvals Certificates

General Product Approval





Confirmation







EMV Test Certificates Marine / Shipping



<u>KC</u>

Type Test Certificates/Test Report







Marine / Shipping other Environment





Confirmation

Environmental Confirmations

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RP2025-1AP30

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RP2025-1AP30}$

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

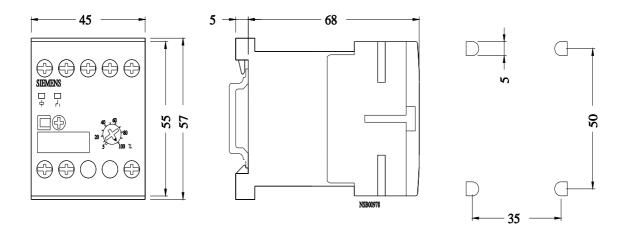
https://support.industry.siemens.com/cs/ww/en/ps/3RP2025-1AP30

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2025-1AP30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RP2025-1AP30/manual



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