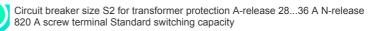
## SIEMENS

## Data sheet

## 3RV2431-4PA10





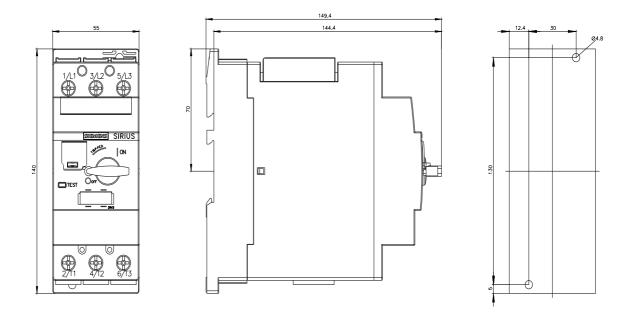


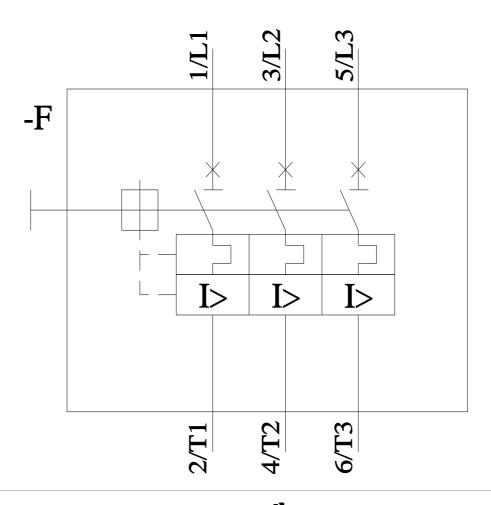
| product brand name  | SIRIUS                     |  |  |  |
|---|----------------------------|--|--|--|
| product designation   | Circuit breaker            |  |  |  |
| design of the product   | For transformer protection |  |  |  |
| product type designation  | 3RV2                       |  |  |  |
| General technical data  |                            |  |  |  |
| size of the circuit-breaker   | S2                         |  |  |  |
| size of contactor can be combined company-specific                                      | S2                         |  |  |  |
| product extension auxiliary switch  | Yes                        |  |  |  |
| power loss [W] for rated value of the current   |                            |  |  |  |
| <ul> <li>at AC in hot operating state</li> </ul>  | 20 W                       |  |  |  |
| <ul> <li>at AC in hot operating state per pole</li> </ul>                               | 6.7 W                      |  |  |  |
| insulation voltage with degree of pollution 3 at AC rated value                         | 690 V                      |  |  |  |
| surge voltage resistance rated value  | 6 kV                       |  |  |  |
| shock resistance according to IEC 60068-2-27  | 25g / 11 ms Sinus          |  |  |  |
| mechanical service life (operating cycles)  |                            |  |  |  |
| <ul> <li>of the main contacts typical</li> </ul>  | 50 000                     |  |  |  |
| <ul> <li>of auxiliary contacts typical</li> </ul>                                       | 50 000                     |  |  |  |
| electrical endurance (operating cycles) typical   | 50 000                     |  |  |  |
| reference code according to IEC 81346-2   | Q                          |  |  |  |
| Substance Prohibitance (Date)   | 10/15/2014                 |  |  |  |
| SVHC substance name   | Lead - 7439-92-1           |  |  |  |
| Ambient conditions  |                            |  |  |  |
| installation altitude at height above sea level maximum                                 | 2 000 m                    |  |  |  |
| ambient temperature   |                            |  |  |  |
| during operation  | -20 +60 °C                 |  |  |  |
| during storage  | -50 +80 °C                 |  |  |  |
| during transport  | -50 +80 °C                 |  |  |  |
| relative humidity during operation  | 10 95 %                    |  |  |  |
| Main circuit  |                            |  |  |  |
| number of poles for main current circuit  | 3                          |  |  |  |
| adjustable current response value current of the current-<br>dependent overload release | 28 36 A                    |  |  |  |
| operating voltage   |                            |  |  |  |
| rated value   | 20 690 V                   |  |  |  |
| <ul> <li>at AC-3 rated value maximum</li> </ul>   | 690 V                      |  |  |  |
| at AC-3e rated value maximum  | 690 V                      |  |  |  |
| operating frequency rated value   | 50 60 Hz                   |  |  |  |

| operational current rated value                                 | 36 A   |
|---|--|
| operational current rated value operational current             | 30 A   |
| at AC-3 at 400 V rated value                                    | 36 A   |
|   |  |
| at AC-3e at 400 V rated value                                   | 36 A   |
| operating power   |  |
| • at AC-3   |  |
| — at 230 V rated value  | 11 kW  |
| — at 400 V rated value  | 18.5 kW  |
| — at 500 V rated value  | 22 kW  |
| — at 690 V rated value  | 30 kW  |
| • at AC-3e  |  |
| — at 230 V rated value  | 11 kW  |
| — at 400 V rated value  | 18.5 kW  |
| — at 500 V rated value  | 22 kW  |
| — at 690 V rated value  | 30 kW  |
| operating frequency   |  |
| <ul> <li>at AC-3 maximum</li> </ul>                             | 15 1/h   |
| • at AC-3e maximum  | 15 1/h   |
| Auxiliary circuit   |  |
| number of NC contacts for auxiliary contacts                    | 0  |
| number of NO contacts for auxiliary contacts                    | 0  |
| Protective and monitoring functions                             |  |
| product function  |  |
| ground fault detection  | No   |
| phase failure detection   | Yes  |
| trip class  | CLASS 10   |
| design of the overload release                                  | thermal  |
| maximum short-circuit current breaking capacity (Icu)           |  |
| • at AC at 240 V rated value                                    | 100 kA   |
| • at AC at 400 V rated value                                    | 65 kA  |
|   | 10 kA  |
| at AC at 500 V rated value                                      |  |
| • at AC at 690 V rated value                                    | 4 kA   |
| operating short-circuit current breaking capacity (Ics) at AC   | 400.1.4  |
| at 240 V rated value  | 100 kA   |
| • at 400 V rated value  | 30 kA  |
| • at 500 V rated value  | 5 kA   |
| • at 690 V rated value  | 2 kA   |
| response value current of instantaneous short-circuit trip unit | 820 A  |
| UL/CSA ratings  |  |
| full-load current (FLA) for 3-phase AC motor                    |  |
| • at 480 V rated value  | 36 A   |
| • at 600 V rated value  | 36 A   |
| yielded mechanical performance [hp]                             |  |
| <ul> <li>for single-phase AC motor</li> </ul>                   |  |
| — at 110/120 V rated value                                      | 3 hp   |
| — at 230 V rated value  | 7.5 hp   |
| <ul> <li>for 3-phase AC motor</li> </ul>                        |  |
| — at 200/208 V rated value                                      | 15 hp  |
| — at 220/230 V rated value                                      | 15 hp  |
| — at 460/480 V rated value                                      | 30 hp  |
| — at 575/600 V rated value                                      | 40 hp  |
| Short-circuit protection  |  |
| product function short circuit protection                       | Yes  |
| design of the short-circuit trip                                | magnetic   |
|   |  |
| Installation/ mounting/ dimensions                              |  |
| mounting position   | any  |
| fastening method  | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 |
| height  | 140 mm   |
| width   | 55 mm  |
| depth   | 149 mm   |
|   |  |

| required spacing     0 mm  |  |
|--|--|
| • with side-by-side mounting at the side 0 mm  |  |
|  |  |
| <ul> <li>for grounded parts at 400 V</li> </ul>  |  |
| — downwards 50 mm  |  |
| — upwards 50 mm  |  |
| — at the side 10 mm  |  |
| ● for live parts at 400 V  |  |
| — downwards 50 mm  |  |
| — upwards 50 mm  |  |
| — at the side 10 mm  |  |
| ● for grounded parts at 500 V  |  |
| – downwards 50 mm  |  |
| — upwards 50 mm  |  |
| — at the side 10 mm  |  |
| • for live parts at 500 V  |  |
| — downwards 50 mm  |  |
| — upwards 50 mm  |  |
| - at the side 10 mm  |  |
| • for grounded parts at 690 V  |  |
| — downwards 50 mm  |  |
| — upwards 50 mm  |  |
| — backwards 0 mm   |  |
|  |  |
| - at the side 10 mm  |  |
| — forwards 0 mm  |  |
| • for live parts at 690 V  |  |
| — downwards 50 mm  |  |
| — upwards 50 mm  |  |
| — backwards 0 mm   |  |
| at the side  |  |
| — at the side 10 mm  |  |
| — forwards 0 mm  |  |
| - forwards 0 mm Connections/ Terminals   |  |
| — forwards     0 mm       Connections/ Terminals   |  |
| — forwards     0 mm       Connections/ Terminals       type of electrical connection       • for main current circuit       screw-type terminals   |  |
| — forwards     0 mm       Connections/ Terminals       type of electrical connection       • for main current circuit     screw-type terminals       arrangement of electrical connectors for main current     Top and bottom  |  |
| — forwards     0 mm       Connections/ Terminals       type of electrical connection       • for main current circuit     screw-type terminals       arrangement of electrical connectors for main current circuit     Top and bottom  |  |
| forwards     0 mm       Connections/ Terminals       type of electrical connection       • for main current circuit     screw-type terminals       arrangement of electrical connectors for main current     Top and bottom       type of connectable conductor cross-sections     Top and bottom  |  |
| forwards     0 mm       Connections/ Terminals       type of electrical connection       • for main current circuit     screw-type terminals       arrangement of electrical connectors for main current     Top and bottom       type of connectable conductor cross-sections     • for main contacts   |  |
| — forwards       0 mm         Connections/ Terminals         type of electrical connection         • for main current circuit       screw-type terminals         arrangement of electrical connectors for main current circuit       Top and bottom         type of connectable conductor cross-sections       • for main contacts         • for main contacts       - solid or stranded         2x (1 25 mm²), 1x (1 35 mm²)  |  |
| forwards0 mmConnections/ Terminalstype of electrical connection• for main current circuitscrew-type terminalsarrangement of electrical connectors for main current<br>circuitTop and bottomtype of connectable conductor cross-sections<br>• for main contacts<br>- solid or stranded<br>- finely stranded with core end processing2x (1 25 mm²), 1x (1 35 mm²)<br>2x (1 16 mm²), 1x (1 25 mm²)  |  |
| forwards0 mmConnections/ Terminalstype of electrical connection<br>• for main current circuitscrew-type terminalsarrangement of electrical connectors for main current<br>circuitTop and bottomtype of connectable conductor cross-sections<br>• for main contacts<br>- solid or stranded<br>- finely stranded with core end processing<br>• for AWG cables for main contacts2x (1 25 mm²), 1x (1 35 mm²)<br>2x (1 16 mm²), 1x (1 25 mm²)  |  |
| forwards0 mmConnections/ Terminalstype of electrical connection<br>• for main current circuitscrew-type terminalsarrangement of electrical connectors for main current<br>circuitTop and bottomtype of connectable conductor cross-sections<br>• for main contacts<br>- solid or stranded<br>- finely stranded with core end processing<br>• for AWG cables for main contacts2x (1 25 mm²), 1x (1 35 mm²)<br>2x (1 16 mm²), 1x (1 25 mm²)tightening torqueIt (1 35 mm²)<br>2x (1 16 mm²), 1x (1 25 mm²)  |  |
| — forwards0 mmConnections/ Terminalstype of electrical connection<br>• for main current circuitscrew-type terminalsarrangement of electrical connectors for main current<br>circuitTop and bottomtype of connectable conductor cross-sections<br>• for main contacts<br>— solid or stranded<br>— finely stranded with core end processing<br>• for AWG cables for main contacts2x (1 25 mm²), 1x (1 35 mm²)<br>2x (1 16 mm²), 1x (1 25 mm²)tightening torque<br>• for main contacts with screw-type terminals3 4.5 N·m   |  |
| — forwards0 mmConnections/ Terminalstype of electrical connection<br>• for main current circuitscrew-type terminalsarrangement of electrical connectors for main current<br>circuitTop and bottomtype of connectable conductor cross-sections<br>• for main contacts<br>— solid or stranded<br>— finely stranded with core end processing<br>• for AWG cables for main contacts2x (1 25 mm²), 1x (1 35 mm²)<br>2x (1 16 mm²), 1x (1 25 mm²)• for AWG cables for main contacts<br>• for main contacts with screw-type terminals3 4.5 N·mdesign of screwdriver shaftDiameter 5 to 6 mm   |  |
| — forwards0 mmConnections/ Terminalstype of electrical connection<br>• for main current circuitscrew-type terminalsarrangement of electrical connectors for main current<br>circuitTop and bottomtype of connectable conductor cross-sections<br>• for main contacts<br>— solid or stranded<br>— finely stranded with core end processing<br>• for AWG cables for main contacts2x (1 25 mm²), 1x (1 35 mm²)<br>2x (1 16 mm²), 1x (1 25 mm²)tightening torque<br>• for main contacts with screw-type terminals3 4.5 N·mdesign of screwdriver shaft<br>size of the screwdriver tipDiameter 5 to 6 mm   |  |
| — forwards0 mmConnections/ Terminalstype of electrical connection<br>• for main current circuitscrew-type terminalsarrangement of electrical connectors for main current<br>circuitTop and bottomtype of connectable conductor cross-sections<br>• for main contacts<br>— solid or stranded2x (1 25 mm²), 1x (1 35 mm²)- finely stranded with core end processing<br>• for AWG cables for main contacts2x (1 25 mm²), 1x (1 35 mm²)tightening torque<br>• for main contacts with screw-type terminals3 4.5 N·mdesign of screwdriver shaft<br>size of the screwdriver tipDiameter 5 to 6 mmsize of the screwdriver tipPozidriv size 2design of the thread of the connection screwImage: Screw Screw Screw Screw Screw   |  |
| forwards       0 mm         Connections/ Terminals         type of electrical connection       screw-type terminals         • for main current circuit       screw-type terminals         arrangement of electrical connectors for main current       Top and bottom         circuit       Top and bottom         type of connectable conductor cross-sections       - solid or stranded         - solid or stranded       2x (1 25 mm²), 1x (1 35 mm²)         - finely stranded with core end processing       2x (1 16 mm²), 1x (1 25 mm²)         • for AWG cables for main contacts       2x (1 16 mm²), 1x (1 25 mm²)         • for main contacts with screw-type terminals       3 4.5 N·m         design of screwdriver shaft       Diameter 5 to 6 mm         size of the screwdriver tip       Pozidriv size 2         design of the thread of the connection screw       M6   |  |
| forwards       0 mm         Connections/ Terminals         type of electrical connection       screw-type terminals         • for main current circuit       screw-type terminals         arrangement of electrical connectors for main current circuit       Top and bottom         type of connectable conductor cross-sections       - solid or stranded         - solid or stranded       2x (1 25 mm²), 1x (1 35 mm²)         - finely stranded with core end processing       2x (1 16 mm²), 1x (1 25 mm²)         • for AWG cables for main contacts       2x (1 8 3), 1x (18 2)         tightening torque       - for main contacts with screw-type terminals         • for main contacts with screw-type terminals       3 4.5 N·m         design of screwdriver shaft       Diameter 5 to 6 mm         size of the screwdriver tip       Pozidriv size 2         design of the thread of the connection screw       M6         Safety related data       -   |  |
| forwards0 mmConnections/ Terminalstype of electrical connection<br>• for main current circuitscrew-type terminalsarrangement of electrical connectors for main current<br>circuitTop and bottomtype of connectable conductor cross-sections<br>• for main contactsZx (1 25 mm²), 1x (1 35 mm²)- solid or stranded<br>• for AWG cables for main contacts2x (1 25 mm²), 1x (1 35 mm²)• for AWG cables for main contacts2x (1 25 mm²), 1x (1 25 mm²)• for main contacts with screw-type terminals3 4.5 N·mdesign of screwdriver shaft<br>size of the screwdriver tipDiameter 5 to 6 mmsize of the screwdriver tip<br>• for main contactsM6Safety related dataM6product function suitable for safety functionYes   |  |
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| forwards     0 mm       Connections/ Terminals       type of electrical connection     screw-type terminals       arrangement of electrical connectors for main current circuit     Top and bottom       type of connectable conductor cross-sections     Top and bottom       • for main contacts     - solid or stranded       2x (1 25 mm²), 1x (1 35 mm²)       - finely stranded with core end processing     2x (1 16 mm²), 1x (1 25 mm²)       • for AWG cables for main contacts     2x (1 16 mm²), 1x (1 25 mm²)       • for AWG cables for main contacts     2x (1 16 mm²), 1x (1 25 mm²)       • for anin contacts with screw-type terminals     3 4.5 N·m       design of screwdriver shaft     Diameter 5 to 6 mm       size of the screwdriver tip     Pozidriv size 2       design of the thread of the connection screw     M6       • for main contacts     M6       safety related data     Yes       product function suitable for safety function     Yes       suitability for use     • safety-related switching on  |  |
| forwards0 mmConnections/ Terminalstype of electrical connection<br>• for main current circuitscrew-type terminalsarrangement of electrical connectors for main current<br>circuitTop and bottomtype of connectable conductor cross-sections<br>• for main contactsTop and bottom- solid or stranded<br>- solid or stranded duith core end processing<br>• for AWG cables for main contacts2x (1 25 mm²), 1x (1 35 mm²)- finely stranded with core end processing<br>• for AWG cables for main contacts2x (1 16 mm²), 1x (1 25 mm²)tightening torque<br>• for main contacts with screw-type terminals3 4.5 N·mdesign of screwdriver shaft<br>size of the screwdriver tipDiameter 5 to 6 mmsize of the screwdriver tipPozidriv size 2design of the thread of the connection screw<br>• for main contactsM6Safety related dataYesproduct function suitable for safety function<br>suitability for useYes  |  |
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| forwards     0 mm       Connections/ Terminals       type of electrical connection     screw-type terminals       arrangement of electrical connectors for main current<br>circuit     Top and bottom       type of connectable conductor cross-sections     - for main contacts       - solid or stranded     2x (1 25 mm²), 1x (1 35 mm²)       - finely stranded with core end processing     2x (1 25 mm²), 1x (1 25 mm²)       - finely stranded with core end processing     2x (1 3, 1x (1 25 mm²)       - finely stranded with screw-type terminals     3 4.5 N·m       design of screwdriver shaft     Diameter 5 to 6 mm       size of the screwdriver tip     Pozidriv size 2       design of the thread of the connection screw     M6       safety related data     Yes       product function suitable for safety function     Yes       suitability for use     No       • safety-related switching on     No   |  |
| forwards0 mmConnections/ Terminalstype of electrical connection<br>• for main current circuitscrew-type terminalsarrangement of electrical connectors for main current<br>circuitTop and bottomtype of connectable conductor cross-sections<br>• for main contacts<br>   |  |
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| forwards     0 mm       Connections/ Terminals       type of electrical connection     screw-type terminals       arrangement of electrical connectors for main current<br>circuit     Top and bottom       type of connectable conductor cross-sections     Top and bottom       • for main contacts     - solid or stranded       2x (1 25 mm²), 1x (1 35 mm²)       - finely stranded with core end processing     2x (1 25 mm²), 1x (1 35 mm²)       • for AWG cables for main contacts     2x (1 16 mm²), 1x (1 25 mm²)       • for AWG cables for main contacts     2x (1 25 mm²)       • for AWG cables for main contacts     2x (1 25 mm²)       • for AWG cables for main contacts     2x (1 25 mm²)       • for AWG cables for main contacts     2x (1 35 mm²)       • for AWG cables for main contacts     3 4.5 N·m       design of screwdriver shaft     Diameter 5 to 6 mm       size of the screwdriver tip     Pozidriv size 2       design of the thread of the connection screw     M6       Safety related data   |  |
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| forwards       0 mm         Connections/ Terminals         type of electrical connection       screw-type terminals         arrangement of electrical connectors for main current circuit       Top and bottom         arrangement of electrical connectors for main current circuit       Top and bottom         type of connectable conductor cross-sections       •         • for main contacts       2x (1 25 mm²), 1x (1 35 mm²)         - finely stranded with core end processing       2x (1 16 mm²), 1x (1 35 mm²)         • for AWG cables for main contacts       2x (1 8 3), 1x (18 2)         tightening torque       •         • for main contacts with screw-type terminals       3 4.5 N·m         design of screwdriver shaft       Diameter 5 to 6 mm         size of the screwdriver tip       Pozidriv size 2         design of the thread of the connection screw       M6         Safety related data       Product function suitable for safety function         yes       safety-related switching on       No         • safety-related service life necessary       Yes         propotion of dangerous failures       •       •         • with low demand rate according to SN 31920       40 %         • with high demand rate according to SN 31920       50 % <td></td>  |  |
| forwards     0 mm       Connections/ Terminals     type of electrical connection       • for main current circuit     screw-type terminals       arrangement of electrical connectors for main current circuit     Top and bottom       type of connectable conductor cross-sections     • for main contacts       - solid or stranded     2x (1 25 mm³), 1x (1 35 mm³)       - finely stranded with core end processing     2x (1 16 mm³), 1x (1 25 mm³)       • for AWG cables for main contacts     2x (1 16 mm³), 1x (1 25 mm³)       • for main contacts with screw-type terminals     3 4.5 N·m       design of screwdriver shaft     Diameter 5 to 6 mm       size of the screwdriver tip     Poziriv size 2       design of sterwdriver tip     Poziriv size 2       design of the thread of the connection screw     • for main contacts       • for main contacts     M6       Safety related data     Yes       product function suitable for safety function     Yes       suitability for use     • safety-related switching OFF       • safety-related switching OFF     Yes       service life maximum     10 a       test wear-related service life necessary     Yes       proportion of dangerous failures     40 %       • with high demand rate according to SN 31920     50 %       B10 value with high demand rate according to SN 31920                                     |  |

| overdimensioning acc   | ording to ISO 13849-2                   | necessary                     | Yes  |                         |                                  |    |  |  |
|--|---|-------------------------------|--|-------------------------|----------------------------------|----|--|--|
| IEC 61508  |   |                               |  |                         |                                  |    |  |  |
| safety device type acc   | cording to IEC 61508-2                  |                               | Туре А   |                         |                                  |    |  |  |
| T1 value   |   |                               |  |                         |                                  |    |  |  |
| <ul> <li>for proof test interval or service life according to IEC<br/>61508</li> </ul>   |   | 10 a                          | 10 a   |                         |                                  |    |  |  |
| Electrical Safety  |   |                               |  |                         |                                  |    |  |  |
| protection class IP on the front according to IEC 60529  |   |                               | IP20   | IP20                    |                                  |    |  |  |
| touch protection on the front according to IEC 60529   |   |                               | finger-safe, for vertical contact from the front |                         |                                  |    |  |  |
| Display  |   |                               |  | _                       |                                  | _  |  |  |
| display version for switching status   |   |                               | Handle   |                         |                                  |    |  |  |
| Approvals Certificates   |   |                               | _  |                         |                                  |    |  |  |
| General Product Appr   | UK                                      |                               |  | <u>Confirmation</u>     | (UL)                             | KC |  |  |
| General Product Ap-<br>proval  | Test Certificates                       |                               |  | Marine / Shipping       |                                  |    |  |  |
| EHC  | Type Test Certific-<br>ates/Test Report | <u>Special Test Ce</u><br>ate | <u>ertific-</u>                                  | ABS                     | BUREAU<br>VERITAS                |    |  |  |
| Marine / Shipping  |   |                               |  | other                   |                                  |    |  |  |
| Llovd's<br>Register<br>urs   | PRS                                     | RINA                          |  | Miscellaneous           | <u>Confirmation</u>              |    |  |  |
| Railway  |   | Environment                   |  |                         |                                  |    |  |  |
| Special Test Certific-<br>ate  | <u>Confirmation</u>                     | EPD                           |  | Siemens<br>EcoTech      | Environmental Con-<br>firmations |    |  |  |
|  |   |                               |  |                         |                                  |    |  |  |
| Further information  | ckaging                                 |                               |  |                         |                                  |    |  |  |
| Information on the packaging<br>https://support.industry.siemens.com/cs/ww/en/view/109813875   |   |                               |  |                         |                                  |    |  |  |
| Information- and Downloadcenter (Catalogs, Brochures,)   |   |                               |  |                         |                                  |    |  |  |
| https://www.siemens.com/ic10<br>Industry Mall (Online ordering system)<br>https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2431-4PA10  |   |                               |  |                         |                                  |    |  |  |
| Cax online generator   |   |                               |  |                         |                                  |    |  |  |
| http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2431-4PA10<br>Service&Support (Manuals, Certificates, Characteristics, FAQs,)   |   |                               |  |                         |                                  |    |  |  |
| https://support.industry.siemens.com/cs/ww/en/ps/3RV2431-4PA10<br>Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)<br>http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2431-4PA10⟨=en |   |                               |  |                         |                                  |    |  |  |
| Characteristic: Tripping characteristics, I²t, Let-through current<br>https://support.industry.siemens.com/cs/ww/en/ps/3RV2431-4PA10/char  |   |                               |  |                         |                                  |    |  |  |
| Further characteristic   | s (e.q. electrical endura               | nce, switching fre            | equency)   | )<br>3RV2431-4PA10&obje | cttype=14&gridview=view1         |    |  |  |
|  |   |                               |  |                         |                                  |    |  |  |





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