## **SIEMENS**

Data sheet 3RF2430-1AC35



Solid-state contactor 3-phase 3RF2 AC 51 / 30 A / 40  $^{\circ}$ C 48-600 V / 110 V AC 3-phase controlled screw terminal Blocking voltage 1200 V

| product type designation design of the product product type designation 3RF24  Ceneral technical data product function power loss [W] for rated value of the current at AC in hot operating state 91 W at AC in hot operating state 91 W at AC in hot operating state per pole 30.33 W without load current share typical 1.9 W insulation voltage rated value 600 V degree of pollution 3 type of voltage of the control supply voltage AC of the control supply voltage AC surge voltage resistance of main circuit rated value 6 kV protection class IP on the front according to IEC 60682-27 15g / 11 ms vibration resistance according to IEC 60682-27 15g / 11 ms vibration resistance according to IEC 60682-26 29 reference code according to IEC 60682-26 29 Substance Prohibitance (Date) 07/01/2006 SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Dibutylois(pentane-2,4-dionato-Q,0)*(tin - 22673-19-4) Weight 0.572 kg Main circuit number of NC contacts for main contacts 0 type of voltage of the operating voltage AC at AC at 50 Hz rated value 48 600 V at 50 Hz at 50 Hz at 60 Hz  | product brand name  | SIRIUS                                 |
|--|---|--|
| product type designation 3RF24  General technical data product function power loss [W] for rated value of the current  • at AC in hot operating state 91 W  • at AC in hot operating state 91 W  insulation voltage rated value 600 V  degree of pollution 3  type of voltage  • of the operating voltage AC  surge voltage resistance of main circuit rated value 6 kV protection class IP IP20  protection class IP on the front according to IEC 60068-2-7 15g / 11 ms  vibration resistance according to IEC 60068-2-8 2g  reference code according to IEC 60068-2-6 2g  reference code according to IEC 81346-2 Q  Substance Prohibitance (Date) 707/01/2008  SVHC substance name Lead 7439-92-1  Weight 0.572 kg  Main circuit number of Poles for main current circuit 3 number of NC contacts for main contacts 0  type of voltage of the operating voltage AC  - at 50 Hz rated value 48 600 V  • at 60 Hz  | product designation                                       | solid-state contactor                  |
| General technical data  product function power loss [W] for rated value of the current  * at AC in hot operating state exhibition of the current  * at AC in hot operating state exhibition of the current  * at AC in hot operating state per pole * without load current share typical insulation voltage rated value degree of pollution 3 type of voltage * of the operating voltage * of the control supply voltage * surge voltage resistance of main circuit rated value protection class IP on the front according to IEC 60529 IP20 protection class IP on the front according to IEC 60529 IP20 shock resistance according to IEC 60068-2-6 2g reference code according to IEC 60068-2-6 2g reference code according to IEC 60068-2-6 2g reference code according to IEC 60068-2-6 SUBdatance Prohibitance (Date)  5VHC substance name  Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-38-8 Dioulybis (pertaine 2,4-dionato-O,07)in - 22673-19-4 Dioughes (lead oxide) - 1317-38-8 Dioulybis (pertaine 2,4-dionato-O,07)in - 22673-19-4  Weight  number of NO contacts for main contacts 10 10 10 10 10 10 10 10 10 10 10 10 10  | design of the product                                     | three-phase controlled                 |
| product function  power loss [W] for rated value of the current  at AC in hot operating state 91 W  at AC in hot operating state 91 W  without load current share typical 1.9 W  insulation voltage rated value 600 V  degree of pollution 3  type of voltage  of the operating voltage AC  surge voltage resistance of main circuit rated value 6 kV  protection class IP on the front according to IEC 600529 IP20  shock resistance according to IEC 60068-2-6 2g  reference code according to IEC 60068-2-6 2g  Substance Prohibitance (Date) 07/01/2006  SVHC substance name Lead - 7439-92-1  Lead monoxide (lead oxide) - 1317-36-8  Dibutybis(pentane-2,4-dionato-C),O')tin - 22673-19-4  Weight 0.572 kg  Main circuit number of NC contacts for main contacts 10 number of NC contacts for main contacts 10 number of NC contacts for main contacts 10 type of voltage of the operating voltage 48 600 V  e at 60 Hz rated value 48 600 V  e at 60 Hz rated value 50 660 V  e at 60 Hz  e at             | product type designation                                  | 3RF24                                  |
| power loss [W] for rated value of the current  * at AC in hot operating state prole  * at AC in hot operating state prole  * at AC in hot operating state prole  * without load current share typical  1.9 W  insulation voltage rated value  degree of pollution  3  type of voltage  • of the operating voltage  • of the operating voltage  • of the control supphy voltage  * of the operating voltage  • of the operating voltage  • of the operating voltage  • of the operating voltage  * operating voltage  * of the operating voltage  * of the operating voltage  * of NC contacts for main current circuit  * number of NC contacts for main contacts  * operating voltage  * of the operating voltage  * of at AC  * at SO Hz rated value  * operating requency rated value  * operating range relative to the operating voltage at AC  * of SO Hz  * of SO | General technical data                                    |  |
| at AC in hot operating state per pole at AC in hot operating state per pole without load current share typical insulation voltage rated value degree of pollution type of voltage of the operating voltage of the operating voltage of the control supply voltage of the control supply voltage AC surge voltage resistance of main circuit rated value protection class IP protection class IP on the front according to IEC 60529 IP20 shock resistance according to IEC 60568-2-27 tybration resistance according to IEC 60068-2-8 greference code according to IEC 60068-2-8 greference code according to IEC 60068-2-8 Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Dibulybis/pentane-2,4-dionato-0,0')tin - 22673-19-4  Weight 0.572 kg  Main circuit number of NC contacts for main current circuit number of NC contacts for main contacts 1 number of NC contacts for main contacts 2 operating voltage at AC — at 50 Hz rated value — at 60 Hz rated value — at 60 Hz rated value — at 60 Hz rated value  operating frequency rated value relative symmetrical tolerance of the operating frequency operating requency rated value relative symmetrical tolerance of the operating voltage at AC  at 50 Hz at 50 Hz at 50 Hz 40 660 V 40 660 V  | product function  | zero-point switching                   |
| at AC in hot operating state per pole without load current share typical insulation voltage rated value degree of pollution 3 type of voltage of the operating voltage of the control supply voltage AC surge voltage resistance of main circuit rated value protection class IP protection class IP IP20 shock resistance according to IEC 60529 IP20 shock resistance according to IEC 60582-2-7 15g / 11 ms vibration resistance according to IEC 60582-2-2 Q substance according to IEC 81346-2 Q Substance Prohibitance (Date)  SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Dibutylbis/gentance-2,4-dionato-Q,O')tin - 22673-19-4  Weight 0.572 kg  Main circuit number of poles for main current circuit 3 number of NC contacts for main contacts 3 number of NC contacts for main contacts 0 type of voltage of the operating voltage   | power loss [W] for rated value of the current             |  |
| insulation voltage rated value  degree of pollution  type of voltage  of the operating voltage  of the control supply voltage  of the control supply voltage  AC  of the control supply voltage  AC  of the control supply voltage  AC  protection class IP  protection class IP on the front according to IEC 600529  protection class IP on the front according to IEC 60068-2-27  protection class IP on the front according to IEC 60068-2-27  isg/11 ms  vibration resistance according to IEC 60068-2-6  greference code according to IEC 60068-2-6  Substance Prohibitance (Date)  SYHC substance name  Lead -7439-92-1  Lead -749  | <ul> <li>at AC in hot operating state</li> </ul>          | 91 W                                   |
| insulation voltage rated value 600 V degree of pollution type of voltage of the operating voltage AC of the control supply voltage AC surge voltage resistance of main circuit rated value protection class IP protection class IP in the front according to IEC 60529 protection class IP on the front according to IEC 60529 protection class IP on the front according to IEC 60529 shock resistance according to IEC 60068-2-6 2g reference code according to IEC 60068-2-6 2g Substance Prohibitance (Date) O7/01/2006 SVHC substance name Lead - 7439-92-1 Lead - 7439-92-1 Lead - 4349-92-1 Lead - 4309-92-1 Lead - 4309-92-1 Velight Nation circuit number of poles for main current circuit a number of NO contacts for main contacts 1 number of NO contacts for main contacts 1 number of NO contacts for main contacts 2 operating voltage at AC - at 50 Hz rated value - at 60 Hz rated value - at 60 Hz rated value relative symmetrical tolerance of the operating frequency operating requency rated value relative symmetrical tolerance of the operating voltage at AC at 50 Hz at 60 Hz at 60 Hz - at 60 Hz   | <ul> <li>at AC in hot operating state per pole</li> </ul> | 30.33 W                                |
| type of voltage  of the operating voltage  of the control supply voltage  of the control supply voltage  AC  surge voltage resistance of main circuit rated value  protection class IP  protection class IP  protection class IP protection class IP protection class IP protection class IP  protection class IP  | without load current share typical                        | 1.9 W                                  |
| type of voltage  • of the operating voltage • of the control supply voltage AC  • of the control supply voltage AC  surge voltage resistance of main circuit rated value  protection class IP  protection class IP on the front according to IEC 60529  protection class IP on the front according to IEC 60529  shock resistance according to IEC 60682-27  vibration resistance according to IEC 60682-27  greference code according to IEC 81346-2  Q  Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1  Lead monoxide (lead oxide) - 1317-36-8  Dibutylbis/pentane-2,4-dionato-O,O')tin - 22673-19-4  Weight  0.572 kg  Main circuit  number of poles for main current circuit 3  number of NC contacts for main contacts 3  number of NC contacts for main contacts 0  type of voltage of the operating voltage  operating voltage  • at AC  — at 50 Hz rated value — at 60 Hz rated value  relative symmetrical tolerance of the operating frequency  operating range relative to the operating voltage at AC  • at 50 Hz  • at 50 Hz  • at 50 Hz  • at 60 Hz  40 660 V  • at 60 Hz  | insulation voltage rated value                            | 600 V                                  |
| of the operating voltage of the control supply voltage surge voltage resistance of main circuit rated value protection class IP protection class IP IP20 protection class IP on the front according to IEC 60529 IP20 shock resistance according to IEC 60068-2-27 I5g / 11 ms vibration resistance according to IEC 60068-2-6 2g reference code according to IEC 81346-2 Q Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Dibutylbis/(pentane-2,4-dionato-O,0')tin - 22673-19-4  Weight 0.572 kg  Main circuit number of NO contacts for main current circuit 3 number of NC contacts for main contacts 1 number of NC contacts for main contacts 0 type of voltage of the operating voltage of at AC — at 50 Hz rated value — at 60 Hz rated value relative symmetrical tolerance of the operating frequency operating range relative to the operating voltage at AC  of at 50 Hz    | degree of pollution                                       | 3                                      |
| of the control supply voltage surge voltage resistance of main circuit rated value protection class IP protection class IP IP20 protection class IP on the front according to IEC 60529 IP20 shock resistance according to IEC 60068-2-27 15g / 11 ms vibration resistance according to IEC 60068-2-6 2g reference code according to IEC 81346-2 Q Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Dibutylbis(pentane-2,4-dionato-O,0')tin - 22673-19-4  Weight  Main circuit  number of poles for main current circuit 3 number of NO contacts for main contacts 3 number of NC contacts for main contacts 0 type of voltage of the operating voltage   | type of voltage   |  |
| surge voltage resistance of main circuit rated value  protection class IP protection class IP on the front according to IEC 60529 shock resistance according to IEC 60068-2-27 15g / 11 ms vibration resistance according to IEC 60068-2-6 2g reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name  Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4  Weight  Main circuit number of poles for main current circuit 1 anumber of NC contacts for main contacts 3 number of NC contacts for main contacts 1 type of voltage of the operating voltage 1 at AC 1 at 50 Hz rated value 2 operating frequency rated value 2 operating range relative to the operating voltage at AC 1 at 50 Hz 2 at 60 Hz 4 at 60 Hz  | <ul> <li>of the operating voltage</li> </ul>              | AC                                     |
| protection class IP protection class IP on the front according to IEC 60529 shock resistance according to IEC 60068-2-27 shock resistance according to IEC 60068-2-6 2g reference code according to IEC 60068-2-6 2g Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4  Weight  0.572 kg  Main circuit  number of poles for main current circuit 3 number of NC contacts for main contacts 3 number of NC contacts for main contacts 0 type of voltage of the operating voltage • at AC — at 50 Hz rated value — at 60 Hz rated value — at 60 Hz rated value  operating frequency rated value  relative symmetrical tolerance of the operating voltage at AC • at 50 Hz • at 50 Hz • at 50 Hz • at 60 Hz  • at 60 V • at 60 Hz  | of the control supply voltage                             | AC                                     |
| protection class IP on the front according to IEC 60529  shock resistance according to IEC 60068-2-27  yibration resistance according to IEC 60068-2-6  reference code according to IEC 81346-2  Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4  Weight  Main circuit  number of poles for main current circuit 3 number of NO contacts for main contacts 1 number of NC contacts for main contacts 2 ype of voltage of the operating voltage  at AC  — at 50 Hz rated value — at 60 Hz rated value  relative symmetrical tolerance of the operating frequency operating range relative to the operating voltage at AC  at 50 Hz  at 60 Hz  at 60 Hz  at 60 Hz  40 660 V  at 60 V  at 60 Hz  | surge voltage resistance of main circuit rated value      | 6 kV                                   |
| shock resistance according to IEC 60068-2-27   15g / 11 ms   | protection class IP                                       | IP20                                   |
| vibration resistance according to IEC 60068-2-6  reference code according to IEC 81346-2  Q Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4  Weight  0.572 kg  Main circuit  number of poles for main current circuit 3 number of NC contacts for main contacts 1 number of NC contacts for main contacts 0 type of voltage of the operating voltage  • at AC  — at 50 Hz rated value  operating frequency rated value relative symmetrical tolerance of the operating voltage at AC  • at 50 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  40 660 V  • at 60 Hz  | protection class IP on the front according to IEC 60529   | IP20                                   |
| reference code according to IEC 81346-2  Substance Prohibitance (Date)  O7/01/2006  SVHC substance name  Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4  Weight  0.572 kg  Main circuit  number of poles for main current circuit 3 number of NO contacts for main contacts 1 number of NC contacts for main contacts 0 type of voltage of the operating voltage • at AC  — at 50 Hz rated value — at 60 Hz  relative symmetrical tolerance of the operating frequency  • at 50 Hz • at 60 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  | shock resistance according to IEC 60068-2-27              | 15g / 11 ms                            |
| Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4  Weight  0.572 kg  Main circuit  number of poles for main current circuit 3 number of NC contacts for main contacts 1 number of NC contacts for main contacts 0 type of voltage of the operating voltage • at AC — at 50 Hz rated value - at 60 Hz rated value  volerating requency rated value  relative symmetrical tolerance of the operating requency  operating range relative to the operating voltage at AC • at 50 Hz • at 60 Hz  40 660 V  - at 60 Hz  | vibration resistance according to IEC 60068-2-6           | 2g                                     |
| SVHC substance name  Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4  Weight  0.572 kg  Main circuit  number of poles for main current circuit 3 number of NC contacts for main contacts 1 number of NC contacts for main contacts 0 type of voltage of the operating voltage • at AC  — at 50 Hz rated value 48 600 V  operating frequency rated value 50 60 Hz  relative symmetrical tolerance of the operating voltage at AC  • at 50 Hz • at 60 Hz  40 660 V  • at 60 Hz  | reference code according to IEC 81346-2                   | Q                                      |
| Lead monoxide (lead oxide) - 1317-36-8 Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4  Weight  0.572 kg  Main circuit  number of poles for main current circuit 3 number of NO contacts for main contacts 3 number of NC contacts for main contacts 0 type of voltage of the operating voltage • at AC  — at 50 Hz rated value — at 60 Hz rated value  voperating frequency rated value  relative symmetrical tolerance of the operating voltage at AC  • at 50 Hz • at 60 Hz  40 660 V  • at 60 Hz  | Substance Prohibitance (Date)                             | 07/01/2006                             |
| number of poles for main current circuit  number of NO contacts for main contacts  number of NC contacts for main contacts  type of voltage of the operating voltage  • at AC  — at 50 Hz rated value — at 60 Hz rated value  relative symmetrical tolerance of the operating frequency  • at 50 Hz  • at 50 Hz  • at 50 Hz  • at 50 Hz  • at 60 Hz  40 660 V  | SVHC substance name                                       | Lead monoxide (lead oxide) - 1317-36-8 |
| number of poles for main current circuit  number of NO contacts for main contacts  number of NC contacts for main contacts  type of voltage of the operating voltage  • at AC  — at 50 Hz rated value — at 60 Hz rated value  relative symmetrical tolerance of the operating frequency  operating range relative to the operating voltage at AC  • at 50 Hz  • at 60 Hz  40 660 V   | Weight  | 0.572 kg                               |
| number of NO contacts for main contacts  number of NC contacts for main contacts  type of voltage of the operating voltage  • at AC  — at 50 Hz rated value — at 60 Hz rated value  telative symmetrical tolerance of the operating frequency  operating range relative to the operating voltage at AC  • at 50 Hz  • at 60 Hz  48 600 V  50 60 Hz  relative symmetrical tolerance of the operating frequency  operating range relative to the operating voltage at AC  • at 50 Hz  • at 60 Hz  40 660 V   | Main circuit  |  |
| number of NC contacts for main contacts  type of voltage of the operating voltage  • at AC  — at 50 Hz rated value — at 60 Hz rated value  telative symmetrical tolerance of the operating frequency  • at 50 Hz  • at 50 Hz  • at 50 Hz  • at 50 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz   | number of poles for main current circuit                  | 3                                      |
| type of voltage of the operating voltage  • at AC  — at 50 Hz rated value — at 60 Hz rated value  operating frequency rated value  relative symmetrical tolerance of the operating frequency  • at 50 Hz  • at 50 Hz  • at 60 Hz  48 600 V  50 60 Hz  relative symmetrical tolerance of the operating frequency  operating range relative to the operating voltage at AC  • at 50 Hz  • at 60 Hz  40 660 V  • at 60 V  | number of NO contacts for main contacts                   | 3                                      |
| operating voltage  • at AC  — at 50 Hz rated value — at 60 Hz rated value  operating frequency rated value  felative symmetrical tolerance of the operating frequency  operating range relative to the operating voltage at AC  • at 50 Hz  • at 60 Hz  48 600 V  50 60 Hz  10 %  operating range relative to the operating voltage at AC  • at 60 Hz  40 660 V  • at 60 Hz  | number of NC contacts for main contacts                   | 0                                      |
| at AC  — at 50 Hz rated value  — at 60 Hz rated value  48 600 V  operating frequency rated value  50 60 Hz  relative symmetrical tolerance of the operating frequency  operating range relative to the operating voltage at AC  at 50 Hz  at 60 Hz  40 660 V  40 660 V   | type of voltage of the operating voltage                  | AC                                     |
| - at 50 Hz rated value 48 600 V  - at 60 Hz rated value 48 600 V  operating frequency rated value 50 60 Hz  relative symmetrical tolerance of the operating frequency operating range relative to the operating voltage at AC  ■ at 50 Hz ■ at 60 Hz 48 600 V  40 660 V  40 660 V  | operating voltage   |  |
| — at 60 Hz rated value 48 600 V  operating frequency rated value 50 60 Hz  relative symmetrical tolerance of the operating frequency 10 %  operating range relative to the operating voltage at AC  ● at 50 Hz 40 660 V  ● at 60 Hz 40 660 V   | • at AC   |  |
| operating frequency rated value  relative symmetrical tolerance of the operating frequency  operating range relative to the operating voltage at AC  • at 50 Hz  • at 60 Hz  40 660 V  • at 60 Hz  | — at 50 Hz rated value                                    | 48 600 V                               |
| relative symmetrical tolerance of the operating frequency  operating range relative to the operating voltage at AC  • at 50 Hz  • at 60 Hz  40 660 V  40 660 V   | — at 60 Hz rated value                                    | 48 600 V                               |
| operating range relative to the operating voltage at AC          • at 50 Hz  | operating frequency rated value                           | 50 60 Hz                               |
| • at 50 Hz     • at 60 Hz     40 660 V     40 660 V  | relative symmetrical tolerance of the operating frequency | 10 %                                   |
| • at 60 Hz 40 660 V  | operating range relative to the operating voltage at AC   |  |
|  | • at 50 Hz  | 40 660 V                               |
| operational current  | • at 60 Hz  | 40 660 V                               |
|  | operational current                                       |  |

| at AC-51 rated value   | 30 A  |  |  |
|--|---|--|--|
| at AC-51 rated value     at AC-51 according to IEC 60947-4-3   | 22 A  |  |  |
| according to IEC 60947-4-3     according to UL 508 rated value   | 22 A<br>22 A  |  |  |
|  | 500 mA  |  |  |
| operational current minimum  |   |  |  |
| rate of voltage rise at the thyristor for main contacts<br>maximum permissible   | 1 000 V/µs  |  |  |
| blocking voltage at the thyristor for main contacts maximum permissible  | 1 200 V   |  |  |
| reverse current of the thyristor   | 10 mA   |  |  |
| derating temperature   | 40 °C   |  |  |
| surge current resistance rated value   | 1 200 A   |  |  |
| l2t value maximum  | 7 200 A²·s  |  |  |
| Control circuit/ Control   |   |  |  |
| type of voltage of the control supply voltage  | AC  |  |  |
| control supply voltage 1 at AC   |   |  |  |
| ● at 50 Hz   | 90 125 V  |  |  |
| • at 60 Hz   | 90 125 V  |  |  |
| control supply voltage frequency   |   |  |  |
| • 1 rated value  | 45 Hz   |  |  |
| 2 rated value  | 66 Hz   |  |  |
| control supply voltage at AC   |   |  |  |
| <ul> <li>at 50 Hz full-scale value for signal&lt;0&gt; recognition</li> </ul>  | 40 V  |  |  |
| • at 60 Hz full-scale value for signal<0> recognition  | 90 V  |  |  |
| control supply voltage   |   |  |  |
| <ul> <li>at AC initial value for signal &lt;1&gt; detection</li> </ul>   | 90 V  |  |  |
| symmetrical line frequency tolerance   | 5 Hz  |  |  |
| control current at minimum control supply voltage  |   |  |  |
| • at AC  | 2 mA  |  |  |
| control current at AC rated value  | 15 mA   |  |  |
| ON-delay time  | 40 ms; additionally max. one half-wave  |  |  |
| Auxiliary circuit  |   |  |  |
| type of switching contact  | normally open contact (NO)  |  |  |
|  |   |  |  |
| number of NC contacts for auxiliary contacts   | 0   |  |  |
| number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts  | 0   |  |  |
|  |   |  |  |
| number of NO contacts for auxiliary contacts   | 0   |  |  |
| number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions   | 0   |  |  |
| number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts  | 0   |  |  |
| number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method side-by-side mounting  | 0 0 Yes screw fixing and snap-on mounting on standard mounting rail 35 mm according   |  |  |
| number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method side-by-side mounting fastening method  design of the thread of the screw for securing the   | 0  Yes  screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715  |  |  |
| number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method side-by-side mounting fastening method  design of the thread of the screw for securing the equipment   | 0 0 Yes screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 M4   |  |  |
| number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method side-by-side mounting fastening method  design of the thread of the screw for securing the equipment height  | O O Yes screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 M4 100 mm  |  |  |
| number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method side-by-side mounting fastening method  design of the thread of the screw for securing the equipment height width  | O O Yes screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 M4 100 mm 89.5 mm  |  |  |
| number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method side-by-side mounting fastening method  design of the thread of the screw for securing the equipment height width depth  | O O Yes screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 M4 100 mm 89.5 mm  |  |  |
| number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method side-by-side mounting fastening method  design of the thread of the screw for securing the equipment height width depth  Connections/ Terminals product component removable terminal for auxiliary and   | Yes screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 M4  100 mm 89.5 mm 128 mm  |  |  |
| number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method side-by-side mounting fastening method  design of the thread of the screw for securing the equipment height width depth  Connections/ Terminals product component removable terminal for auxiliary and control circuit   | Yes screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 M4  100 mm 89.5 mm 128 mm  |  |  |
| number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method side-by-side mounting fastening method  design of the thread of the screw for securing the equipment height width depth  Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection   | Yes screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 M4  100 mm 89.5 mm 128 mm  |  |  |
| number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method side-by-side mounting fastening method  design of the thread of the screw for securing the equipment height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit   | Yes screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 M4  100 mm 89.5 mm 128 mm  Yes screw-type terminals  |  |  |
| number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts  Installation/ mounting/ dimensions  fastening method side-by-side mounting fastening method  design of the thread of the screw for securing the equipment height width depth  Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection  • for main current circuit • for auxiliary and control circuit   | Yes screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 M4  100 mm 89.5 mm 128 mm  Yes screw-type terminals  |  |  |
| number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts  Installation/ mounting/ dimensions  fastening method side-by-side mounting  fastening method  design of the thread of the screw for securing the equipment height width depth  Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection  • for main current circuit • for auxiliary and control circuit  type of connectable conductor cross-sections  | Yes screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 M4  100 mm 89.5 mm 128 mm  Yes screw-type terminals  |  |  |
| number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts  Installation/ mounting/ dimensions  fastening method side-by-side mounting fastening method  design of the thread of the screw for securing the equipment height width depth  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection  • for main current circuit • for auxiliary and control circuit  type of connectable conductor cross-sections • for main contacts  | Yes screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 M4  100 mm 89.5 mm 128 mm  Yes screw-type terminals screw-type terminals   |  |  |
| number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method side-by-side mounting fastening method  design of the thread of the screw for securing the equipment height width depth  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection  | Yes screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 M4  100 mm 89.5 mm 128 mm  Yes  screw-type terminals screw-type terminals 2x (1.5 2.5 mm²), 2x (2.5 6 mm²)   |  |  |
| number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts  Installation/ mounting/ dimensions  fastening method side-by-side mounting fastening method  design of the thread of the screw for securing the equipment height width depth  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection  | Yes screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 M4  100 mm 89.5 mm 128 mm  Yes  screw-type terminals screw-type terminals 2x (1.5 2.5 mm²), 2x (2.5 6 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²                       |  |  |
| number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts  Installation/ mounting/ dimensions fastening method side-by-side mounting fastening method  design of the thread of the screw for securing the equipment height width depth  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection  • for main current circuit • for auxiliary and control circuit  type of connectable conductor cross-sections • for main contacts — solid — finely stranded with core end processing • for AWG cables for main contacts   | Yes screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 M4  100 mm 89.5 mm 128 mm  Yes  screw-type terminals screw-type terminals $2x (1.5 2.5 mm^2), 2x (2.5 6 mm^2)$ $2x (1 2.5 mm^2), 2x (2.5 6 mm^2), 1x 10 mm^2$              |  |  |
| number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts  Installation/ mounting/ dimensions  fastening method side-by-side mounting  fastening method  design of the thread of the screw for securing the equipment height width depth  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection   | Yes screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 M4  100 mm 89.5 mm 128 mm  Yes  screw-type terminals screw-type terminals 2x (1.5 2.5 mm²), 2x (2.5 6 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2x (14 10)            |  |  |
| number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts  Installation/ mounting/ dimensions  fastening method side-by-side mounting fastening method  design of the thread of the screw for securing the equipment height width depth  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection  | Yes screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 M4  100 mm 89.5 mm 128 mm  Yes  screw-type terminals screw-type terminals 2x (1.5 2.5 mm²), 2x (2.5 6 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2x (14 10)  1.5 6 mm² |  |  |
| number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method side-by-side mounting fastening method  design of the thread of the screw for securing the equipment height width depth  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection  | Yes screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 M4  100 mm 89.5 mm 128 mm  Yes  screw-type terminals screw-type terminals 2x (1.5 2.5 mm²), 2x (2.5 6 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2x (14 10)  1.5 6 mm² |  |  |
| number of NO contacts for auxiliary contacts  number of CO contacts for auxiliary contacts  Installation/ mounting/ dimensions  fastening method side-by-side mounting  fastening method  design of the thread of the screw for securing the equipment  height  width  depth  Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection  • for main current circuit  • for auxiliary and control circuit  type of connectable conductor cross-sections  • for main contacts  — solid  — finely stranded with core end processing  • for AWG cables for main contacts  connectable conductor cross-section for main contacts  • solid or stranded  • finely stranded with core end processing | Yes screw fixing and snap-on mounting on standard mounting rail 35 mm according to IEC 60715 M4  100 mm 89.5 mm 128 mm  Yes  screw-type terminals screw-type terminals 2x (1.5 2.5 mm²), 2x (2.5 6 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2x (14 10)  1.5 6 mm² |  |  |
| number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts  Installation/ mounting/ dimensions  fastening method side-by-side mounting fastening method  design of the thread of the screw for securing the equipment height width depth  Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection   | 9   |  |  |

| usable  • up to 460 V  Approvals Certificates  | 3NA3812   |  |  |
|--|---|--|--|
| • up to 460 V  | 3NA3812   |  |  |
| usable   |   |  |  |
|  |   |  |  |
| cylindrical design 22 x 58 mm usable  manufacturer's article number of the gG fuse at NH design            |   |  |  |
| cylindrical design 14 x 51 mm usable  of back-up R fuse link for semiconductor protection at               | 3NC2280   |  |  |
| cylindrical design 10 x 38 mm usable  of back-up R fuse link for semiconductor protection at               | 3NC1450   |  |  |
| <ul><li>design usable</li><li>of back-up R fuse link for semiconductor protection at</li></ul>             | 3NC1032   |  |  |
| cylindrical design usable  • of back-up R fuse link for semiconductor protection at NH                     | 3NE8003-1   |  |  |
| NH design usable  of full range R fuse link for semiconductor protection at                                | 5SE1335; Maximum operating voltage 400 V!                             |  |  |
| manufacturer's article number  of full range R fuse link for semiconductor protection at                   | <u>3NE1803-0</u>  |  |  |
| Short-circuit protection, design of the fuse link  |   |  |  |
| field-bound HF interference emission according to CISPR11  | Class A for industrial environment                                    |  |  |
| conducted HF interference emissions according to CISPR11   | Class A for industrial environment                                    |  |  |
| electrostatic discharge according to IEC 61000-4-2   | 4 kV contact discharging / 8 kV air discharging, behavior criterion 2 |  |  |
| due to high-frequency radiation according to IEC 61000- 4-6  | 140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1     |  |  |
| due to conductor-conductor surge according to IEC 61000-4-5  | 1 kV behavior criterion 2   |  |  |
| due to conductor-earth surge according to IEC 61000-4-5      due to conductor earth store according to IEC | 2 kV behavior criterion 2   |  |  |
| • due to burst according to IEC 61000-4-4  | 2 kV / 5 kHz behavior criterion 2                                     |  |  |
| conducted interference   |   |  |  |
| Electromagnetic compatibility  |   |  |  |
| during storage   | -55 +80 °C  |  |  |
| during operation   | -25 +60 °C  |  |  |
| ambient temperature  |   |  |  |
| installation altitude at height above sea level maximum  | 1 000 m   |  |  |
| Ambient conditions   |   |  |  |
| touch protection on the front according to IEC 60529   | finger-safe, for vertical contact from the front                      |  |  |
| protection class IP on the front according to IEC 60529  | IP20  |  |  |
| Electrical Safety  |   |  |  |
| for auxiliary and control contacts   | 7 mm  |  |  |
| • for main contacts  | 7 mm  |  |  |
| stripped length of the cable   |   |  |  |
| of the auxiliary and control contacts  | M3  |  |  |
| • for main contacts  | M4  |  |  |
| design of the thread of the connection screw   |   |  |  |
| for auxiliary and control contacts with screw-type terminals   | 7.5 5.3 lbf·in  |  |  |
| tightening torque [lbf-in]  • for main contacts with screw-type terminals                                  | 18 22 lbf·in  |  |  |
| terminals  |   |  |  |
| <ul> <li>for auxiliary and control contacts with screw-type</li> </ul>                                     | 0.5 0.6 N·m   |  |  |
| for main contacts with screw-type terminals  | 2 2.5 N·m   |  |  |
| tightening torque  |   |  |  |
| AWG number as coded connectable conductor cross section for main contacts                                  | 14 10   |  |  |
| • for AWG cables for auxiliary and control contacts  | 1x (AWG 20 12)  |  |  |
| <ul> <li>finely stranded without core end processing</li> </ul>  | 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²)                                    |  |  |





Confirmation







Test Certificates other Environment



## 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=3RF2430-1AC35

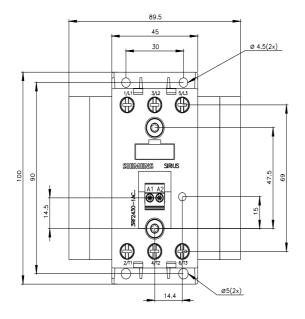
Cax online generator

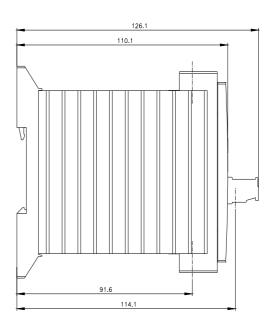
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2430-1AC35

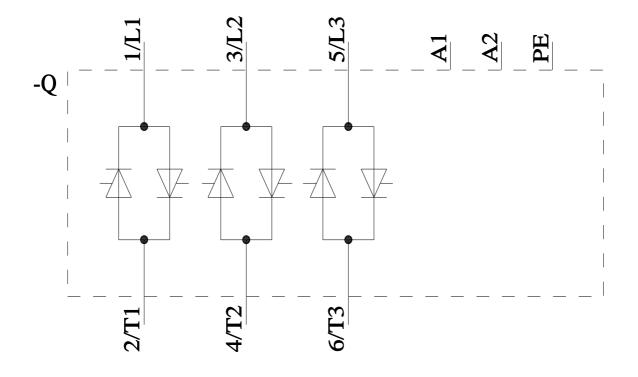
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) <a href="https://support.industry.siemens.com/cs/ww/en/ps/3RF2430-1AC35">https://support.industry.siemens.com/cs/ww/en/ps/3RF2430-1AC35</a>

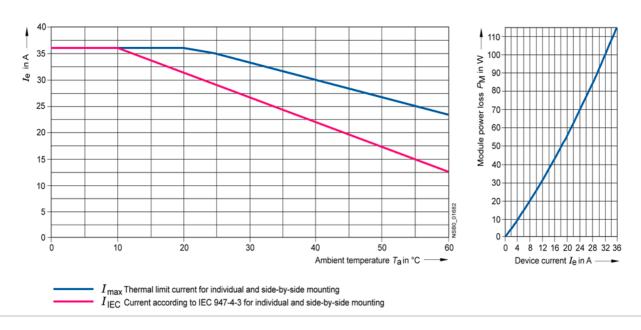
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RF2430-1AC35&lang=en









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