## **SIEMENS**

Data sheet 3RU2146-4LB1



Overload relay 70...90 A Thermal For motor protection Size S3, Class 10 Standalone installation Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

| product type designation product type designation ground type designation grou | product brand name  | SIRIUS                 |
|--|---|------------------------|
| Size of overload relay size of overload relay size of contactor can be combined company-specific power loss [W] for rated value of the current at AC in hot operating state • per pole • per pole • per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value  • per pole • in networks with ungrounded star point between auxiliary and auxiliary circuit • in networks with grounded star point between auxiliary and auxiliary circuit • in networks with grounded star point between main and auxiliary circuit • in networks with grounded star point between main and auxiliary circuit • in networks with grounded star point between main and auxiliary circuit • in networks with grounded star point between main and auxiliary circuit • in networks with grounded star point between main and auxiliary circuit • with automatic reset typical • with automatic reset typical • with nemote-reset • unim • with remote-reset • with manual reset • with manual reset • with manual reset  10 min  reference code according to IEC 81346-2  Substance Prohibitance (Date)  Weight  0.86 kg  Ambient conditions  installation allitude at height above sea level maximum  ambient temperature • during operation • during storage • during thrapport • during thrapport • during thrapport • during operation • during storage • during thrapport • during thrapport  relative humidity during operation  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  | product designation   | thermal overload relay |
| size of overload relay size of contactor can be combined company-specific sa power loss IVI for rated value of the current at AC in hot operating state • per pole  insulation voltage with degree of pollution 3 at AC rated value  per pole insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value  in networks with ungrounded star point between auxiliary and auxiliary circuit • in networks with ungrounded star point between auxiliary and auxiliary circuit • in networks with ungrounded star point between main and auxiliary circuit • in networks with ungrounded star point between main and auxiliary circuit • in networks with grounded star point between main and auxiliary circuit • in networks with grounded star point between main and auxiliary circuit • in networks with grounded star point between main and auxiliary circuit • in networks with grounded star point between main and auxiliary circuit • in networks with grounded star point between main and auxiliary circuit • with remater seet in the properties of the proper | product type designation  | 3RU2                   |
| size of contactor can be combined company-specific power loss [W] for rated value of the current at AC in hot operating state per pole 7W Insulation voltage with degree of poliution 3 at AC rated value 8 kV maximum permissible voltage for protective separation in networks with ungrounded star point between auxiliary and auxiliary circuit in networks with grounded star point between auxiliary and auxiliary circuit in networks with ungrounded star point between main and auxiliary circuit in networks with grounded star point between main and auxiliary circuit in networks with grounded star point between main and auxiliary circuit shock resistance according to IEC 60068-2-27 8g / 11 ms recovery time after overload trip with automatic reset typical with remote-reset 10 min with remote-reset 10 min with remote-reset 10 min with manual reset 10 min  reference code according to IEC 81346-2 F Substance Prohibitance (Date) 0307/2017 SVHG substance name Lead - 7439-92-1 Weight 0.86 kg Ambient conditions installation altitude at height above sea level maximum d unital proparation d uniting storage d during transport 40 +70 °C during storage d during transport 40 +80 °C temperature compensation 40 +80 °C temperature transports of the current circuit adjustable current response value current of the current-dependent overload release   | General technical data  |                        |
| power loss [W] for rated value of the current at AC in hot operating state  • per pole  insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value  maximum permissible voltage for protective separation  • in networks with ungrounded star point between auxiliary and auxiliary circuit  • in networks with grounded star point between auxiliary and auxiliary circuit  • in networks with ungrounded star point between main and auxiliary circuit  • in networks with grounded star point between main and auxiliary circuit  • in networks with grounded star point between main and auxiliary circuit  • in networks with grounded star point between main and auxiliary circuit  • in networks with grounded star point between main and auxiliary circuit  • with automatic reset typical  • with remote-reset  • with manual reset  10 min  • with manual reset  • with manual reset  • with manual reset  • Weight  • Dead According to IEC 81346-2  Substance Prohibitance (Date)  SyrtC substance name  • Lead -7439-92-1  Weight  • during operation  • during storage  • during transport  • during transp | size of overload relay  | S3                     |
| operating state  • per pole  insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value  maximum permissible voltage for protective separation  • in networks with ungrounded star point between auxiliary and auxiliary circuit  • in networks with grounded star point between auxiliary and auxiliary circuit  • in networks with grounded star point between main and auxiliary circuit  • in networks with grounded star point between main and auxiliary circuit  • in networks with grounded star point between main and auxiliary circuit  • in networks with grounded star point between main and auxiliary circuit  shock resistance according to IEC 60068-2-27  8g / 11 ms  recovery time after overload trip  • with automatic reset typical  • with remote-reset  10 min  • with manual reset  10 min  reference code according to IEC 81346-2  Substance Prohibitance (Date)  Substance Prohibitance (Date)  Substance Prohibitance (Date)  0.86 kg  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during poration  • during storage  • 455 +80 °C  • during transport  temperature compensation  relative hundrid yduring operation  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  | size of contactor can be combined company-specific              | S3                     |
| insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value  maximum permissible voltage for protective separation  in networks with ungrounded star point between auxiliary and auxiliary circuit  in networks with ungrounded star point between auxiliary and auxiliary circuit  in networks with ungrounded star point between main and auxiliary circuit  in networks with grounded star point between main and auxiliary circuit  in networks with grounded star point between main and auxiliary circuit  with networks with grounded star point between main and auxiliary circuit  with auxiliary circuit  shock resistance according to IEC 60068-2-27  recovery time after overload trip  with automatic reset typical  with remote-reset  with manual reset  10 min  reference code according to IEC 81346-2  Fusubstance Prohibitance (Date)  30/1/2017  SVHC substance Prohibitance (Date)  30/1/2017  SVHC substance name  Lead - 7439-92-1  Weight  0.86 kg  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  during operation  40 +70 °C  during storage  55 +80 °C  during transport  40 +60 °C  relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release   |   | 21 W                   |
| surge voltage resistance rated value  maximum permissible voltage for protective separation  in networks with ungrounded star point between auxiliary and auxiliary circuit  in networks with grounded star point between auxiliary and auxiliary circuit  in networks with ungrounded star point between main and auxiliary circuit  in networks with grounded star point between main and auxiliary circuit  in networks with grounded star point between main and auxiliary circuit  in networks with grounded star point between main and auxiliary circuit  in the work resistance according to IEC 60068-2-27  in the success of the su | • per pole  | 7 W                    |
| maximum permissible voltage for protective separation  in networks with ungrounded star point between auxiliary and auxiliary circuit  in networks with ungrounded star point between auxiliary and auxiliary circuit  in networks with ungrounded star point between main and auxiliary circuit  in networks with grounded star point between main and auxiliary circuit  in networks with grounded star point between main and auxiliary circuit  shock resistance according to IEC 60068-2-27  ### 10 min  with automatic reset typical  with amount reset  in min  with manual reset  freference code according to IEC 81346-2  Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1  Weight  0.86 kg  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  during operation  during storage  during storage  during storage  during transport  temperature compensation  reflection and current circuit  adjustable current response value current of the current-dependent overload release   | insulation voltage with degree of pollution 3 at AC rated value | 1 000 V                |
| in networks with ungrounded star point between auxiliary and auxiliary circuit in networks with grounded star point between main and auxiliary circuit in networks with ungrounded star point between main and auxiliary circuit in networks with grounded star point between main and auxiliary circuit in networks with grounded star point between main and auxiliary circuit shock resistance according to IEC 60068-2-27 8g / 11 ms  recovery time after overload trip with automatic reset typical with automatic reset typical with remote-reset with manual reset for min  reference code according to IEC 81346-2 F Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 0.86 kg  Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during storage during transport -55+80 °C temperature compensation -40+70 °C temperature compensation -40+80 °C temperature compensation -40+80 °C relative humidity during operation  Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release  | surge voltage resistance rated value                            | 8 kV                   |
| and auxiliary circuit  in networks with grounded star point between auxiliary and auxiliary circuit  in networks with ungrounded star point between main and auxiliary circuit  in networks with grounded star point between main and auxiliary circuit  in networks with grounded star point between main and auxiliary circuit  shock resistance according to IEC 60068-2-27  8g / 11 ms  recovery time after overload trip  with automatic reset typical  with remote-reset  10 min  with remote-reset  10 min  with manual reset  reference code according to IEC 81346-2  Substance Prohibitance (Date)  30/01/2017  SVHC substance name  Lead - 7439-92-1  Weight  0.86 kg  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  during operation  40 +70 °C  during storage  during transport  -55 +80 °C  temperature compensation  40 +60 °C  relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release   | maximum permissible voltage for protective separation           |                        |
| and auxiliary circuit  in networks with ungrounded star point between main and auxiliary circuit  in networks with grounded star point between main and auxiliary circuit  in networks with grounded star point between main and auxiliary circuit  shock resistance according to IEC 60068-2-27  8g / 11 ms  recovery time after overload trip  with automatic reset typical 10 min  with remote-reset 10 min  with manual reset 10 min  reference code according to IEC 81346-2 F  Substance Prohibitance (Date) 03/01/2017  SVHC substance name Lead - 7439-92-1  Weight 0.86 kg  Ambient conditions  installation altitude at height above sea level maximum 2 000 m  ambient temperature  during operation -40 +70 ° C  during storage 55 +80 ° C  temperature compensation -40 +60 ° 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-dependent overload release   | ·   | 440 V                  |
| auxillary circuit  in networks with grounded star point between main and auxiliary circuit  shock resistance according to IEC 60068-2-27  grecovery time after overload trip  with automatic reset typical with remote-reset in min  with remote-reset in min  reference code according to IEC 81346-2  F Substance Prohibitance (Date)  SVHC substance name Lead - 7439-92-1  Weight  Ambient conditions  installation altitude at height above sea level maximum ambient temperature during operation during storage during transport  temperature compensation relative humidity during operation  Main circuit  number of poles for main current circuit adjustable current response value current of the current-dependent overload release   |   | 440 V                  |
| shock resistance according to IEC 60068-2-27  shock resistance according to IEC 60068-2-27  recovery time after overload trip  with automatic reset typical with remote-reset 10 min  with manual reset 10 min  reference code according to IEC 81346-2  Substance Prohibitance (Date) 3/01/2017  SVHC substance name Lead - 7439-92-1  Weight 0.86 kg  Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage -55 +80 °C during transport temperature compensation relative humidity during operation 10 95 %  Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release  |   | 440 V                  |
| recovery time after overload trip  • with automatic reset typical • with remote-reset • with manual reset • with manual reset • with manual reset • 10 min  reference code according to IEC 81346-2  Substance Prohibitance (Date)  SVHC substance name • Lead - 7439-92-1  Weight • 0.86 kg  Ambient conditions  installation altitude at height above sea level maximum • during operation • during storage • during transport • during storage • during transport • -55 +80 °C  temperature compensation relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit adjustable current response value current of the current-dependent overload release  |   | 440 V                  |
| with automatic reset typical     with remote-reset     with manual reset     with manual reset     10 min  reference code according to IEC 81346-2  Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1  Weight  0.86 kg  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport  temperature compensation  relative humidity during operation  40 +60 °C  relative humidity during operation  mumber of poles for main current circuit  adjustable current response value current of the current-dependent overload release  | shock resistance according to IEC 60068-2-27                    | 8g / 11 ms             |
| with remote-reset  | recovery time after overload trip                               |                        |
| with manual reset     reference code according to IEC 81346-2     Substance Prohibitance (Date)     SVHC substance name     Lead - 7439-92-1  Weight     0.86 kg  Ambient conditions  installation altitude at height above sea level maximum     ambient temperature     • during operation     • during storage     • during transport     • during transport     temperature compensation     relative humidity during operation  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  10 min  10 min  F  F  03/01/2017  F  8  40 +70 °C  40 +70 °C  40 +70 °C  55 +80 °C  40 +60 °C  70 95 %   | <ul> <li>with automatic reset typical</li> </ul>                | 10 min                 |
| reference code according to IEC 81346-2  Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1  Weight  0.86 kg  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport • during transport  temperature compensation -40 +70 °C  • during transport -55 +80 °C  temperature compensation -40 +60 °C  relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release   | with remote-reset   | 10 min                 |
| Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1  Weight  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage  • during transport  -55 +80 °C  • during transport  temperature compensation  -40 +60 °C  relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release   | with manual reset   | 1 - 11111              |
| SVHC substance name  Lead - 7439-92-1  Weight  0.86 kg  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage  • during transport  -55 +80 °C  • during transport  -55 +80 °C  temperature compensation  -40 +60 °C  relative humidity during operation  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  | reference code according to IEC 81346-2                         | F                      |
| Weight  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport • during transport  -55 +80 °C  • temperature compensation  relative humidity during operation  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release   | Substance Prohibitance (Date)                                   | 03/01/2017             |
| installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport • during transport  -55 +80 °C  temperature compensation -40 +60 °C  relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit adjustable current response value current of the current-dependent overload release  70 90 A   | SVHC substance name   | Lead - 7439-92-1       |
| installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage  • during transport  • during transport  temperature compensation  relative humidity during operation  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  2 000 m  -40 +70 °C  -55 +80 °C  -55 +80 °C  -40 +60 °C  10 95 %  70 95 %   | Weight  | 0.86 kg                |
| ambient temperature  • during operation  • during storage  • during transport  • 25 +80 °C  temperature compensation  • 40 +60 °C  relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit  adjustable current response value current of the current-dependent overload release  | Ambient conditions  |                        |
| <ul> <li>during operation</li> <li>during storage</li> <li>55 +80 °C</li> <li>during transport</li> <li>55 +80 °C</li> <li>temperature compensation</li> <li>relative humidity during operation</li> <li>10 95 %</li> <li>Main circuit</li> <li>number of poles for main current circuit</li> <li>adjustable current response value current of the current-dependent overload release</li> <li>70 90 A</li> </ul>  | installation altitude at height above sea level maximum         | 2 000 m                |
| • during storage     • during transport     • during transport     • during transport     • during transport     • 55 +80 °C  temperature compensation     • 40 +60 °C  relative humidity during operation     10 95 %  Main circuit  number of poles for main current circuit     adjustable current response value current of the current-dependent overload release  70 90 A  | ambient temperature   |                        |
| • during transport     -55 +80 °C     temperature compensation     -40 +60 °C     relative humidity during operation     10 95 %  Main circuit     number of poles for main current circuit     adjustable current response value current of the current-dependent overload release  -55 +80 °C  -40 +60 °C  10 95 %  70 95 %  | <ul><li>during operation</li></ul>                              | -40 +70 °C             |
| temperature compensation -40 +60 °C relative humidity during operation 10 95 %  Main circuit  number of poles for main current circuit adjustable current response value current of the current-dependent overload release 70 90 A   | during storage  | -55 +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-dependent overload release 70 90 A  | during transport  | -55 +80 °C             |
| Main circuit  number of poles for main current circuit  adjustable current response value current of the current- dependent overload release  3 70 90 A  | temperature compensation  | -40 +60 °C             |
| number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 70 90 A  | relative humidity during operation                              | 10 95 %                |
| adjustable current response value current of the current-<br>dependent overload release  | Main circuit  |                        |
| dependent overload release   | number of poles for main current circuit                        | 3                      |
| operating voltage  |   | 70 90 A                |
|  | operating voltage   |                        |

| # rided value   1000 V   1000  |  |   |
|--|--|---|
| poperating frequency rated value operational current rated value operational current rated value operating power  ### ACAS at 400 V rated value ### AT 400 V rated value ## |  |   |
| Operating Journal ourset at AC-3e at 400 V rated value   | at AC-3e rated value maximum   | 1 000 V   |
| operating power  - at 400 V rated value  - at 500 V ra | operating frequency rated value                                      | 50 60 Hz  |
| operations power  at AG-3  at 400 V rated value  at 500 V rated value  at 500 V rated value  at 600 V rated value  55 kW  Auxiliary circuit  design of the auxiliary switch number of NC contacts for auxiliary contacts  a rote  for contact of document of auxiliary contacts  a rote  a rote  a rote  for contactor disconnection  for message "Tripped"  for contact for auxiliary contacts  a rote  a rot | operational current rated value                                      | 90 A  |
| # at AC-3  | operational current at AC-3e at 400 V rated value                    | 90 A  |
| at 400 V rated value   | operating power  |   |
| al 500 V rated value 75 kW at 690 V rated value 75 kW  | • at AC-3  |   |
| at 690 V rated value   | — at 400 V rated value   | 45 kW   |
| - at 400 V rated value   | — at 500 V rated value   | 55 kW   |
|  | — at 690 V rated value   | 75 kW   |
|  | • at AC-3e   |   |
| Auxiliary circuit design of the auxiliary switch integrated contacts for auxiliary contacts 1 contacts for auxiliary contacts 1 for message "Tripped" number of CO contacts for auxiliary contacts 0 for message "Tripped" number of CO contacts for auxiliary contacts at AC-15 at 110 V 3 A 3 A 4 at 110 V 3 A 4 at 110 V 3 A 4 at 120 V 4 A 140 D V 1 A 140 D V | — at 400 V rated value   | 45 kW   |
| Auxiliary circuit   Gesign of the auxiliary switch   Integrated   In   | — at 500 V rated value   | 55 kW   |
| design of the auxiliary switch number of NC contacts for auxiliary contacts  | — at 690 V rated value   | 75 kW   |
| number of NC contacts for auxiliary contacts  • note  number of NC ontacts for auxiliary contacts  • note  number of NC contacts for auxiliary contacts  • note  number of CO contacts for auxiliary contacts  • at 24 V 3 A  • at 110 V 3 A  • at 120 V 3 A  • at 25 V 2 A  • at 30 V 2 A  • at 300 V 2 A  • at 300 V 2 A  • at 110 V 0 3 A  • at 24 V 2 A  • at 25 V 2 A  • at 26 V 2 A  • at 27 V 2 A  • at 27 V 2 A  • at 28 V 2 A  • at 128 V 2 A  • at 128 V 2 A  • at 128 V 3 A  • at 128 V 3 A  • at 128 V 3 A  • at 128 V 4 A  • at 28 V 4 A  • at 29 V 5 A  • at 29 V 5 A  • at 20 V 7 A  Seeign of the miniature circuit breaker for short-circuit protection of the auxiliary switch required  contact rating of auxiliary contacts according to UL  Beough R300  Frotective and monitoring functions  trip class  CLASS 10  thermal  UCSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • of short-circuit protection of the main circuit  — with type of coordination 2 required  • of short-circuit protection of the main circuit  — with type of coordination 2 required  • of short-circuit protection of the main circuit  — with type of coordination 2 required  • for short-circuit protection of the main circuit  — with type of coordination 2 required  • for short-circuit protection of the main circuit  — with type of coordination 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the main circuit  — with type of coordination 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short- | Auxiliary circuit  |   |
| number of NO contacts for auxiliary contacts note for message "Tripped"  number of CO contacts for auxiliary contacts note for message "Tripped"  operational current of auxiliary contacts at AC-15 at 24 V at 110 V at 120 V at 120 V at 230 V at 400 V at 800 V operational current of auxiliary contacts at DC-13 at 890 V operational current of auxiliary contacts at DC-13 at 890 V operational current of auxiliary contacts at DC-13 at 800 V operational current of auxiliary contacts at DC-13 at 800 V operational current of auxiliary contacts at DC-13 at 800 V ot 110 V ot 125 V ot | design of the auxiliary switch                                       | integrated  |
| number of NO contacts for auxiliary contacts  ● note  • note  • note  • note  for message "Tripped"  0  operational current of auxiliary contacts at AC-15  • at 24 V 3A  • at 110 V 3A  • at 120 V 3A  • at 125 V 3A  • at 330 V 2A  • at 400 V 1A  • at 880 V 0,75 A  operational current of auxiliary contacts at DC-13  • at 24 V 2A  • at 880 V 0,75 A  operational current of auxiliary contacts at DC-13  • at 24 V 2A  • at 125 V 3A  • at 120 V 3A  • at 24 V 2A  • at 125 V 3A  • at 120 V 3A  • at 120 V 3A  • at 24 V 2A  • at 125 V 3A  • at 120 V 3  | number of NC contacts for auxiliary contacts                         | 1   |
|  | • note   | for contactor disconnection                                   |
| number of CO contacts for auxiliary contacts  operational current of auxiliary contacts at AC-15  at 24 V  at 110 V  3 A  at 125 V  3 A  3 A  3 A  3 A  4 125 V  3 A  2 A  4 120 V  4 1400 V  1 A  5 at 690 V  0 Operational current of auxiliary contacts at DC-13  at 24 V  2 A  3 A  4 110 V  2 A  5 at 60 V  5 A  5 Operational current of auxiliary contacts at DC-13  at 24 V  5 A  5 A  5 A  5 A  5 A  5 A  5 A  5  | number of NO contacts for auxiliary contacts                         | 1   |
| operational current of auxillary contacts at AC-15  at 24 V  at 110 V  at 120 V  at 125 V  at 230 V  at 400 V  at 600 V  at 600 V  at 600 V  at 600 V  at 120 V  at 600 V  at 600 V  at 120 V  at 125 V  at 125 V  at 120 V  at 125 V  at 125 V  at 120 V  at 125 V  at 125 V  at 120 V  at 125 V  at 120 V  at 12 | • note   | for message "Tripped"   |
| at 24 V   at 110 V   3 A     at 1120 V   3 A     at 125 V   3 A     at 230 V   2 A     at 400 V   1 A     at 690 V   0,75 A     operational current of auxiliary contacts at DC-13     at 24 V   2 A     at 80 V   0,3 A     at 110 V   0,22 A     at 110 V   0,22 A     at 110 V   0,22 A     at 125 V   0,22 A     at 120 V   0,11 A     design of the ministure circuit breaker for short-circuit protection of the auxiliary switch required     contact rating of auxiliary contacts according to UL     B600 / R300     Protective and monitoring functions     trip class   CLASS 10     design of the overload release   thermal     UL/CSA ratings     full-load current (FLA) for 3-phase AC motor     at 490 V rated value   77 A     at 600 V rated value   77 A     at 600 V rated value   77 A     Short-circuit protection of the main circuit     with type of coordination 1 required   690 V: gG: 250 A; 1000 V: a.M. / g.B.: 160 A     690 V: gG: 250 A; 1000 V: a.M. / g.B.: 160 A     690 V: gG: 68 A, quick 10 A     690 V: gG: 68 A, quick 10 A     690 V: gG: 160 A; 1000 V: a.M. / g.B.: 160 A     690 V: gG: 160 A; 1000 V: a.M. / g.B.: 160 A     690 V: gG: 160 A; 1000 V: a.M. / g.B.: 160 A     690 V: gG: 160 A; 1000 V: a.M. / g.B.: 160 A     690 V: gG: 160 A; 1000 V: a.M. / g.B.: 160 A     690 V: gG: 160 A; 1000 V: a.M. / g.B.: 160 A     690 V: gG: 160 A; 1000 V: a.M. / g.B.: 160 A     690 V: gG: 160 A; 1000 V: a.M. / g.B.: 160 A     690 V: gG: 160 A; 1000 V: a.M. / g.B.: 160 A     690 V: gG: 160 A; 1000 V: a.M. / g.B.: 160 A     690 V: gG: 160 A; 1000 V: a.M. / g.B.: 160 A     690 V: gG: 160 A; 1000 V: a.M. / g.B.: 160 A     690 V: gG: 160 A; 1000 V: a.M. / g.B.: 160 A     690 V: gG: 160 A; 1000 V: a.M. / g.B.: 160 A     690 V: gG: 160 A; 1000 V: a.M. / g.B.: 160 A     690 V: gG: 160 A; 1000 V: a.M. / g.B.: 160 A     690 V: gG: 160 A; 1000 V: a.M. / g.B.: 160 A     690 V: gG: 160 A; 1000 V: a.M. / g.B.: 160 A     690 V: gG: 160 A; 1000 V: a.M. / g.B.: 160 A     690 V: gG: 1   | number of CO contacts for auxiliary contacts                         | 0   |
| e at 110 V e at 125 V e at 120 V e at 230 V e at 400 V e at 690 V operational current of auxiliary contacts at DC-13 e at 24 V e at 60 V e at 100 V e at 110 V e at 125 V e at 1 | operational current of auxiliary contacts at AC-15                   |   |
| e at 120 V e at 125 V e at 125 V e at 230 V e at 400 V e at 690 V operational current of auxiliary contacts at DC-13 e at 690 V operational current of auxiliary contacts at DC-13 e at 24 V e at 60 V e at 110 V e at 110 V e at 125 V e at 125 V e at 125 V e at 125 V e at 120 V e at 125 V e at 120 V e at 125 V e at 120 V | • at 24 V  | 3 A   |
| e at 125 V e at 230 V e at 400 V e at 600 V operational current of auxiliary contacts at DC-13 e at 24 V e at 600 V e at 110 V e at 600 V e at 125 V e at 22 A e at 60 V e at 110 V e at 125 V e at 125 V e at 220 V e at 125 V e at 220 V e at 125 V e at 220 A e at 60 G e at 220 N e at 125 V e at 220 V e at 125 V e at 220 | • at 110 V   | 3 A   |
|  | • at 120 V   | 3 A   |
| at 4400 V at 690 V operational current of auxiliary contacts at DC-13 at 124 V at 60 V other at 110 V other at 125 V other at 125 V other auxiliary switch required design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact rating of auxiliary contacts according to UL Protective and monitoring functions  trip class CLASS 10 design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 77 A Short-circuit protection design of the fuse link for short-circuit protection of the main circuit — with type of coordination 1 required — with type of coordination 1 required with type of coordination 2 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the a  | • at 125 V   | 3 A   |
| operational current of auxiliary contacts at DC-13  • at 24 V  • at 60 V  • at 110 V  • at 125 V  • at 122 D V  design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required  contact rating of auxiliary contacts according to UL  Protective and monitoring functions  trip class  CLASS 10  design of the overload release  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of coordination 2 required  • for short-circuit protection of the auxiliary switch required  installation/ mounting/ dimensions  mounting position  stand-alone installation: with a vertical mounting plane +/-135* rolatable and +/-45* (litable; for more details see manual)  stand-alone installation:  width  depth  120 mm  width  for product component removable terminal for auxiliary and  No   | • at 230 V   | 2 A   |
| operational current of auxiliary contacts at DC-13  at 24 V  at 60 V  at 110 V  0.22 A  at 125 V  at 125 V  be at 1220 V  design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required  contact rating of auxiliary contacts according to UL  Protective and monitoring functions  trip class  design of the overload release  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  at 480 V rated value  at 600 V rated value  at 600 V rated value  with type of coordination 1 required  with type of coordination 2 required  for short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  fastening method  height  it is a 124 V  2 A  0.33 A  0.34 A  0.35 A  0.22 A  0.11 A  6A (SCC less than equal to 0.5 kA; U less than equal to 260V)  of the will on 0.5 kA; U less than equal to 260V)  of the will on 0.5 kA; U less than equal to 260V)  of the will on 0.5 kA; U less than equal to 260V)  of the will on 0.5 kA; U less than equal to 260V)  of the will on 0.5 kA; U less than equal to 260V)  of the will on 0.5 kA; U less than equal to 260V)  of the will on 0.5 kA; U less than equal to 260V)  of the will on 0.5 kA; U less than equal to 260V)  of the will on 0.5 kA; U less than equal to 260V)  of the will on 0.5 kA; U less than equal to 260V)  of the will on 0.5 kA; U less than equal to 260V)  of the will on 0.5 kA; U less than equal to 260V)  of the will on 0.5 kA; U less than equal to 260V)  of the will to 0.5 kA; U less than equal to 260V)  of the will on 0.5 kA; U less than equal to 260V)  of the will on 0.5 kA; U less than equal to 260V)  of the will on 0.5 kA; U less than equal to 260V)  of the will on 0.5 kA; U less than equal to 260V)  of the will on 0.5 kA; U less than equal to 260V)  of the will on 0.5 kA; U less than equal to 260V)  of the will on 0.5 kA; U less than equal to 260V)  of the will on 0.5 kA; U less than equal to 260V)  of the will on 0.5 kA; U less than equal to 260V)  of the will on 0.5 kA; U less th | • at 400 V   | 1 A   |
| at 24 V at 60 V at 110 V 22 A 31 1125 V 32 A 32 1220 V 31 125 V 32 A 32 125 V 33 A 34 S 35 125 A 36 (SCC less than equal to 0.5 kA; U less than equal to 260V) 36 (SCC less than equal to 0.5 kA; U less than equal to 260V) 37 A 38 S  | ● at 690 V   | 0.75 A  |
| at 60 V at 110 V at 110 V at 125 V at 1220 V  design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact rating of auxiliary contacts according to UL  Protective and monitoring functions  trip class  CLASS 10  design of the overload release  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor at 480 V rated value 77 A  Short-circuit protection  design of the fuse link of or short-circuit protection of the main circuit — with type of coordination 1 required of or short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required fastening method fastening method height 120 mm  volume  | operational current of auxiliary contacts at DC-13                   |   |
| • at 110 V • at 125 V • at 125 V • at 220 V  design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required  contact rating of auxiliary contacts according to UL  Protective and monitoring functions  trip class  trip class  (LASS 10  design of the overload release  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 77 A  Short-circuit protection  design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required • with type of coordination 2 required • for short-circuit protection of the auxiliary switch required installation/ mounting/ dimensions  mounting position  fastening method height width 70 mm  depth Connections/ Terminals  product component removable terminal for auxiliary and  0.22 A 0.22 A 0.22 A 0.111 0.221 0.212 0.214 0.215 0.214 0.215 0.216 0.216 0.217 0.218 0.210 0.218 0.210 0.218 0.210 0.218 0.210 0.218 0.210 0.218 0.210 0.218 0.210 0.218 0.210 0.218 0.210 0.218 0.210 0.218 0.210 0.218 0.210 0.218 0.210 0.218 0.210 0.218 0.210 0.218 0.210 0.218 0.21 | • at 24 V  | 2 A   |
| at 125 V at 220 V  at 220 V  design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required  contact rating of auxiliary contacts according to UL  Protective and monitoring functions  trip class  CLASS 10  design of the overload release  UL/GSA ratings  full-load current (FLA) for 3-phase AC motor  at 480 V rated value  77 A  Short-circuit protection  design of the fuse link  for short-circuit protection of the main circuit  — with type of coordination 1 required — with type of coordination 2 required  for short-circuit protection of the auxiliary switch required  installation/ mounting/ dimensions  mounting position  fastening method  fastening method  height  width  70 mm  depth  COLASS 10  CLASS 10  CLASS 10  CLASS 10  Trip class  Trip class  CLASS 10  Trip class  Trip class  CLASS 10  Trip class  Trip class  Trip class  Trip class  Trip class  Find of (SCC less than equal to 0.5 kA; U less than equal to 260V)  Trip class (SCC less than equal to 0.5 kA; U less than equal to 260V)  Trip class  Trip class (SCC less than equal to 0.5 kA; U less than equal to 260V)  Trip class  | ● at 60 V  | 0.3 A   |
| • at 220 V  design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required  contact rating of auxiliary contacts according to UL  Protective and monitoring functions  trip class  design of the overload release  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value — with type of coordination 1 required — with type of coordination 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required fastening method height width 70 mm  load (SCC less than equal to 0.5 kA; U less than equal to 260V)  660 (CC less than equal to 0.5 kA; U less than equal to 260V) 670 (SCC less than equal to 0.5 kA; U less than equal to 260V) 670 (SCC less than equal to 0.5 kA; U less than equal to 260V) 670 (SCC less than equal to 0.5 kA; U less than equal to 0.5 kA; U less than equal to 260V) 670 (SCC less than equal to 0.5 kA; U less than equal to 260V) 670 (SCC less than equal to 0.5 kA; U less than equal to 260V) 670 (CAS OF CAS | • at 110 V   | 0.22 A  |
| design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required  contact rating of auxiliary contacts according to UL  Protective and monitoring functions  trip class  CLASS 10  design of the overload release  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  **The According of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  • with type of coordination 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  fastening method  • for more details see manual   | • at 125 V   | 0.22 A  |
| of the auxiliary switch required contact rating of auxiliary contacts according to UL  Protective and monitoring functions  trip class  design of the overload release  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value • at 600 V rated value  77 A  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required fuse gG: 6 A, quick: 10 A  Installation/ mounting/ dimensions  mounting position  stand-alone installation: with a vertical mounting plane +/-135° rotatable and +/-45° tiltable; for more details see manual  fastening method height  120 mm  width 70 mm  depth Connections/ Terminals  product component removable terminal for auxiliary and No   | • at 220 V   | 0.11 A  |
| trip class  design of the overload release  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  **TA A  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  • or short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required fuse gG: 6 A, quick: 10 A  Installation/ mounting/ dimensions  mounting position  stand-alone installation: with a vertical mounting plane +/-135° rotatable and +/- 45° tiltable; for more details see manual  fastening method  height  120 mm  depth  140 mm  Connections/ Terminals  product component removable terminal for auxiliary and  No   | of the auxiliary switch required                                     | 6A (SCC less than equal to 0.5 kA; U less than equal to 260V) |
| trip class  design of the overload release  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  for short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  • with type of coordination 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  fastening method  fastening method  height  120 mm  connections/ Terminals  product component removable terminal for auxiliary and  No  |  | B600 / R300   |
| design of the overload release  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  77 A  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  height  120 mm  width  70 mm  depth  Connections/ Terminals  product component removable terminal for auxiliary and  No   | Protective and monitoring functions                                  |   |
| full-load current (FLA) for 3-phase AC motor   | trip class   | CLASS 10  |
| full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  77 A  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  • with type of coordination 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  fuse gG: 6 A, quick: 10 A  Installation/ mounting/ dimensions  mounting position  stand-alone installation: with a vertical mounting plane +/-135° rotatable and +/-45° tiltable; for more details see manual  fastening method  height  120 mm  width  70 mm  depth  Connections/ Terminals  product component removable terminal for auxiliary and  No  |  | thermal   |
| at 480 V rated value     at 600 V rated value     77 A  Short-circuit protection  design of the fuse link     of r short-circuit protection of the main circuit         — with type of coordination 1 required   | UL/CSA ratings   |   |
| * at 600 V rated value     **Short-circuit protection  design of the fuse link     ** for short-circuit protection of the main circuit     **— with type of coordination 1 required     **— with type of coordination 2 required     **— for short-circuit protection of the auxiliary switch required     **— for short-circuit protection of the auxiliary switch required     **— for short-circuit protection of the auxiliary switch required     **— for short-circuit protection of the auxiliary switch required     **— for short-circuit protection of the auxiliary switch required     **— for short-circuit protection of the auxiliary switch required     **— for short-circuit protection of the auxiliary switch required     **— for short-circuit protection of the auxiliary switch required     **— for short-circuit protection of the auxiliary switch required     **— for short-circuit protection of the auxiliary switch required     **— for short-circuit protection of the auxiliary switch required     **— for short-circuit protection of the auxiliary switch required     **— for short-circuit protection of the auxiliary switch required     **— for short-circuit protection of the auxiliary switch required     **— for short-circuit protection of the auxiliary switch required     **— for short-circuit protection of the auxiliary switch required     **— for short-circuit protection of the auxiliary switch required     **— for short-circuit protection of the auxiliary switch required     **— for short-circuit protection of the auxiliary switch required     **— for short-circuit protection of the auxiliary switch required     **— for short-circuit protection of the auxiliary switch required     **— for short-circuit protection of the auxiliary switch required     **— for short-circuit protection of the auxiliary switch required     **— for short-circuit protection of the auxiliary switch required        | full-load current (FLA) for 3-phase AC motor                         |   |
| Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  stand-alone installation: with a vertical mounting plane +/-135° rotatable and +/-45° tiltable; for more details see manual  fastening method  • for more details see manual  stand-alone installation  • for more details see manual  fastening method  • for more details see manual  stand-alone installation  • for more details see manual  **To more details see manu | • at 480 V rated value   |   |
| design of the fuse link  |  | 77 A  |
| for short-circuit protection of the main circuit     — with type of coordination 1 required     — with type of coordination 2 required     — with type of coordination 1 required     — with type of coordination 2 required     — with type of coordination 3 required     — with type of coordination 4 required     — with typ      | Short-circuit protection   |   |
| - with type of coordination 1 required - with type of coordination 2 required - with type of coordination 2 required - for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  stand-alone installation: with a vertical mounting plane +/-135° rotatable and +/-45° tiltable; for more details see manual  fastening method height 120 mm width 70 mm depth Tonnections/ Terminals  product component removable terminal for auxiliary and No   | design of the fuse link  |   |
| — with type of coordination 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  stand-alone installation: with a vertical mounting plane +/-135° rotatable and +/-45° tiltable; for more details see manual  fastening method  height  120 mm  width  70 mm  depth  Connections/ Terminals  product component removable terminal for auxiliary and  No   | <ul> <li>for short-circuit protection of the main circuit</li> </ul> |   |
| ● for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  stand-alone installation: with a vertical mounting plane +/-135° rotatable and +/-45° tiltable; for more details see manual  fastening method  stand-alone installation  height  120 mm  width  70 mm  depth  Tomm  Connections/ Terminals  product component removable terminal for auxiliary and  No   | <ul> <li>— with type of coordination 1 required</li> </ul>           | 690 V: gG: 250 A; 1000 V: a.M. / g.B.: 160 A                  |
| Installation/ mounting/ dimensions  mounting position  stand-alone installation: with a vertical mounting plane +/-135° rotatable and +/- 45° tiltable; for more details see manual  fastening method  stand-alone installation  height  120 mm  width  70 mm  depth  Connections/ Terminals  product component removable terminal for auxiliary and  No   | <ul> <li>— with type of coordination 2 required</li> </ul>           | 690 V: gG: 160 A; 1000 V: a.M. / g.B.: 160 A                  |
| mounting position  stand-alone installation: with a vertical mounting plane +/-135° rotatable and +/- 45° tiltable; for more details see manual  stand-alone installation  stand-alone installation  120 mm  width 70 mm  depth 140 mm  Connections/ Terminals  product component removable terminal for auxiliary and No  |  | fuse gG: 6 A, quick: 10 A                                     |
| fastening method stand-alone installation height 120 mm width 70 mm depth 140 mm  Connections/ Terminals product component removable terminal for auxiliary and No   | Installation/ mounting/ dimensions                                   |   |
| height 120 mm width 70 mm depth 140 mm  Connections/ Terminals product component removable terminal for auxiliary and No   | mounting position  |   |
| width 70 mm  depth 140 mm  Connections/ Terminals  product component removable terminal for auxiliary and No   | fastening method   | stand-alone installation                                      |
| depth 140 mm  Connections/ Terminals  product component removable terminal for auxiliary and No  | height   | 120 mm  |
| Connections/ Terminals  product component removable terminal for auxiliary and No  | width  | 70 mm   |
| product component removable terminal for auxiliary and No  | depth  | 140 mm  |
|  | Connections/ Terminals   |   |
| control circuit  |  | No  |
|  | control circuit  |   |

| type of electrical connection  |  |
|--|--|
| for main current circuit   | screw-type terminals                             |
| for auxiliary and control 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  | 2x (2.5 16 mm²)                                  |
| — stranded   | 2x (6 16 mm²), 2x (10 50 mm²), 1x (10 70 mm²)    |
| <ul> <li>solid or stranded</li> </ul>  | 2x (2,5 50 mm²), 1x (10 70 mm²)                  |
| <ul> <li>finely stranded with core end processing</li> </ul>                           | 2x (2.5 35 mm²), 1x (2.5 50 mm²)                 |
| <ul> <li>for AWG cables for main contacts</li> </ul>                                   | 2x (10 1/0), 1x (10 2/0)                         |
| type of connectable conductor cross-sections   |  |
| <ul> <li>for auxiliary contacts</li> </ul>   |  |
| <ul> <li>solid or stranded</li> </ul>  | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)              |
| <ul> <li>finely stranded with core end processing</li> </ul>                           | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)              |
| <ul> <li>for AWG cables for auxiliary contacts</li> </ul>                              | 2x (20 16), 2x (18 14)                           |
| tightening torque  |  |
| <ul> <li>for main contacts for ring cable lug</li> </ul>                               | 4.5 6 N·m  |
| outer diameter of the usable ring cable lug maximum                                    | 19 m   |
| tightening torque  |  |
| <ul> <li>for main contacts with screw-type terminals</li> </ul>                        | 4.5 6 N·m  |
| <ul> <li>for auxiliary contacts with screw-type terminals</li> </ul>                   | 0.8 1.2 N·m                                      |
| design of screwdriver shaft  | Hexagonal socket                                 |
| size of the screwdriver tip  | 4 mm hexagon socket                              |
| design of the thread of the connection screw   |  |
| for main contacts  | M8   |
| <ul> <li>of the auxiliary and control contacts</li> </ul>                              | M3   |
| IEC 61508  |  |
| T1 value   |  |
| <ul> <li>for proof test interval or service life according to IEC<br/>61508</li> </ul> | 20 a   |
| 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 |
| Display  |  |
| display version for switching status   | Slide switch                                     |
| Approvals Certificates   |  |

General Product Approval

For use in hazardous locations













For use in hazardous locations

**Test Certificates** 

Maritime application



Miscellaneous

Special Test Certificate

Type Test Certificates/Test Report





Maritime application













other Railway Environment

other

## 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=3RU2146-4LB1

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2146-4LB1

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

https://support.industry.siemens.com/cs/ww/en/ps/3RU2146-4LB1

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

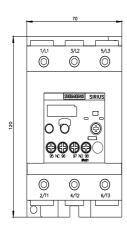
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RU2146-4LB1&lang=en

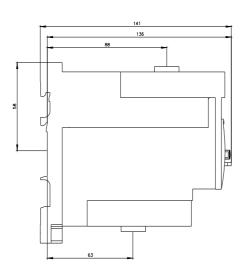
 $\label{lem:characteristics} \textbf{Characteristics}, \textbf{I}^{\textbf{2}}\textbf{t}, \textbf{Let-through current}$ 

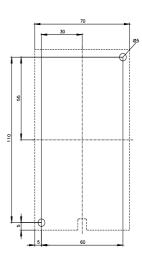
https://support.industry.siemens.com/cs/ww/en/ps/3RU2146-4LB1/char

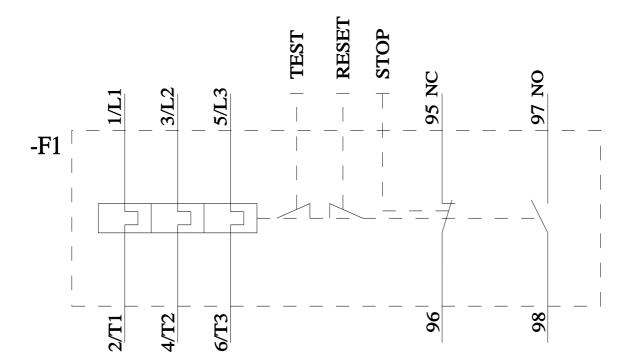
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2146-4LB1&objecttype=14&gridview=view1









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