SIEMENS

Data sheet

3RW5234-6TC14

SIRIUS soft starter 200-480 V 113 A, 110-250 V AC Screw terminals Thermistor input



Figure similar

| Product brand name | SIRIUS |
|---|--|
| Product category | Hybrid switching devices |
| Product designation | Soft starter |
| Manufacturer's article number | |
| of HMI module usable | 3RW5980-0HS00 |
| of HMI-Modul high-feature usable | 3RW5980-0HF00 |
| of communication module PROFINET standard usable | <u>3RW5980-0CS00</u> |
| of communication module PROFIBUS usable | 3RW5980-0CP00 |
| of communication module Modbus TCP usable | 3RW5980-0CT00 |
| of circuit breaker usable at 400 V | 3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10 |
| of circuit breaker usable at 400 V at inside-delta circuit | 3VA2220-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10 |
| of the gG fuse usable up to 690 V | 3NA3244-6; Type of coordination 1, Iq = 65 kA |
| of the gG fuse usable at inside-delta circuit up to 500 V | 3NA3244-6; Type of coordination 1, Iq = 65 kA |
| of full range R fuse link for semiconductor protection usable up to 690 V | 3NE1225-0; Type of coordination 2, Iq = 65 kA |

• of back-up R fuse link for semiconductor protection usable up to 690 V

3NE3335; Type of coordination 2, Iq = 65 kA

| General technical data | General technical data | |
|---|---|--|
| Starting voltage [%] | 30 100 % | |
| Start-up ramp time of soft starter | 0 20 s | |
| Product component | | |
| is supported HMI-Standard | Yes | |
| is supported HMI-High Feature | Yes | |
| Product feature integrated bypass contact system | Yes | |
| Number of controlled phases | 3 | |
| Trip class | CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2 | |
| Insulation voltage | | |
| • rated value | 600 V | |
| Degree of pollution | 3 | |
| Impulse voltage rated value | 6 kV | |
| Blocking voltage of the thyristor maximum | 1 400 V | |
| Service factor | 1 | |
| Surge voltage resistance rated value | 6 kV | |
| maximum permissible voltage for safe isolation | | |
| between main and auxiliary circuit | 600 V | |
| Protection class IP | IP00; IP20 with additional terminal covers for vertical touching | |
| | from the front | |
| Usage category acc. to IEC 60947-4-2 | AC 53a | |
| Shock resistance | 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting | |
| | 15 mm to 6 Hz; 2g to 500 Hz | |
| Reference code acc. to DIN EN 81346-2 | Q | |
| Product function | No. | |
| • ramp-up (soft starting) | Yes | |
| ramp-down (soft stop) | Yes | |
| Soft Torque | Yes | |
| Adjustable current limitation | Yes | |
| pump ramp down | Yes | |
| Intrinsic device protection | Yes | |
| motor overload protection | Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) | |
| Evaluation of thermistor motor protection | Yes; Type A PTC or Klixon / Thermoclick | |
| • inside-delta circuit | Yes | |
| Auto-reset | Yes | |
| Manual RESET | Yes | |
| ● remote reset | Yes; By turning off the control supply voltage | |
| communication function | Yes | |
| • via software configurable | Yes | |
| | | |

| firmware update | Yes |
|---|--|
| removable terminal for control circuit | Yes |
| analog output | No |
| | |
| Power Electronics Operating current | |
| at 40 °C rated value | 113 A |
| at 50 °C rated value | 101 A |
| | 89 A |
| at 60 °C rated value | 05 A |
| Operating current at inside-delta circuit | 196 A |
| • at 40 °C rated value | |
| • at 50 °C rated value | 175 A |
| • at 60 °C rated value | 154 A |
| Operating voltage | 000 400 \/ |
| • rated value | 200 480 V |
| • at inside-delta circuit rated value | 200 480 V |
| Relative negative tolerance of the operating voltage | -15 % |
| Relative positive tolerance of the operating voltage | 10 % |
| Relative negative tolerance of the operating voltage | -15 % |
| at inside-delta circuit | 40.0/ |
| Relative positive tolerance of the operating voltage at inside-delta circuit | 10 % |
| Operating power for three-phase motors | |
| • at 230 V at 40 °C rated value | 30 kW |
| at 230 V at inside-delta circuit at 40 °C rated | 55 kW |
| value | |
| at 400 V at 40 °C rated value | 55 kW |
| at 400 V at inside-delta circuit at 40 °C rated | 110 kW |
| value | |
| Operating frequency 1 rated value | 50 Hz |
| Operating frequency 2 rated value | 60 Hz |
| Relative negative tolerance of the operating | -10 % |
| frequency | |
| Relative positive tolerance of the operating frequency | 10 % |
| Adjustable motor current | |
| • minimum | 53 A |
| • at inside-delta circuit minimum | 91.8 A |
| Minimum load [%] | 15 %; Relative to smallest settable le |
| Power loss [W] for rated value of the current at AC | |
| ● at 40 °C to power-up | 46 W |
| ● at 50 °C to power-up | 42 W |
| ● at 60 °C to power-up | 39 W |
| Control circuit/ Control | |

| Type of voltage of the control supply voltage | AC |
|--|--|
| Control supply voltage at AC | |
| • at 50 Hz | 110 250 V |
| • at 60 Hz | 110 250 V |
| Relative negative tolerance of the control supply | -15 % |
| voltage at AC at 50 Hz | -10 /0 |
| Relative positive tolerance of the control supply | 10 % |
| voltage at AC at 50 Hz | |
| Relative negative tolerance of the control supply | -15 % |
| voltage at AC at 60 Hz | |
| Relative positive tolerance of the control supply | 10 % |
| voltage at AC at 60 Hz | |
| Control supply voltage frequency | 50 60 Hz |
| Relative negative tolerance of the control supply | -10 % |
| voltage frequency | |
| Relative positive tolerance of the control supply voltage frequency | 10 % |
| Control supply current in standby mode rated value | 30 mA |
| Holding current in the by-pass mode operating rated | 75 mA |
| value | 75 HA |
| Starting current at close of by-pass contact maximum | 2.5 A |
| Inrush current peak at connect of control supply | 12.2 A |
| voltage maximum | |
| Duration of inrush current peak at connect of control | 2.2 ms |
| supply voltage | |
| Design of the overvoltage protection | Varistor |
| Design of short-circuit protection for control circuit | 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 |
| | miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker |
| | (Icu= 300 A); Is not part of scope of supply |
| nputs/ Outputs | |
| Number of digital inputs | 1 |
| Number of digital outputs | 3 |
| | |

| Installation/ mounting/ dimensions | |
|------------------------------------|--|
| Mounting position | with vertical mounting surface +/-90° rotatable, with vertical |
| | mounting surface +/- 22.5° tiltable to the front and back |
| Mounting type | screw fixing |
| Height | 306 mm |

2

0

3 A

1 A

• not parameterizable

Number of inputs for thermistor connection

at AC-15 at 250 V rated valueat DC-13 at 24 V rated value

Switching capacity current of the relay outputs

Digital output version

Number of analog outputs

2 normally-open contacts (NO) / 1 changeover contact (CO)

1; Type A PTC or Klixon / Thermoclick

| Depth 203 mm Required spacing with side-by-side mounting • forwards 10 mm • Backwards 00 mm • Backwards 00 mm • upwards 100 mm • downwards 5 mm • at the side 5 mm Installation altitude at height above sea level maximum 66 kg Weight without packaging 66 kg Connections/Terminals screw-type terminals • for control circuit screw-type terminals • for control circuit screw-type terminals • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded 2x (16 95 mm ²) Type of connectable conductor cross-sections at AWG conductors for control circuit 2x (25 120 mm ²) • for DIN cable lug for main contacts finely stranded 2x (20 12), 2x (20 14) Wire length • at the digital inputs at AC maximum 800 m • between soft starter and motor maximum • at the digital inputs at AC maximum 800 m • between soft starter and motor maximum • at the digital inputs at AC maximum 800 m • between soft starter and motor maximum • at the digital inputs at AC maximum 800 m • betwe | Width | 185 mm |
|---|--|---|
| Required spacing with side-by-side mounting 10 mm • forwards 0 mm • Backwards 0 mm • upwards 00 mm • upwards 75 mm • at the side 5 mm • at the side 5 000 m; Derating as of 1000 m; see catalog maximum 6.8 kg Connections/Terminals 5 corew-type terminals • for main current circuit screw-type terminals • for DIN cable lug for main contacts stranded 2x (16 95 mm ⁷) • for DIN cable lug for main contacts stranded 2x (16 95 mm ⁷) • for DIN cable lug for main contacts stranded 2x (25 120 mm ⁷) • for DIN cable lug for main contacts stranded 500 m • solid 1x (20 12), 2x (20 14) Wire length 800 m • solid 100 m • between soft starter and motor maximum 800 m • during operation -25 +60 °C • during operation -25 +60 °C • during operation ac to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no satt mist), 3S2 (sand must nut get iniside the devices), 3M6 • duri | | |
| • forwards10 mm• Backwards0 mm• Backwards0 mm• Upwards100 mm• downwards5 mm• at the side5 mmInstaliation altitude at height above sea level maximum5000 m; Derating as of 1000 m; see catalog• Weight without packaging6.6 kgConnections/Terminalsscrew-type terminalsType of electrical connection • for main current circuit • for control circuitscrew-type terminalsType of onectable conductor cross-sections • for DIN cable lug for main contacts straded • for DIN cable lug for main contacts straded • for DIN cable lug for main contacts finely • stranded2x (16 95 mm ⁵)Type of onectable conductor cross-sections • for DIN cable lug for main contacts finely • stranded2x (25 120 mm ³)• between soft starter and motor maximum • between soft starter and motor maximum • at the digital inputs at AC maximum | - | |
| Backwards 0 mm upwards 100 mm upwards 100 mm idownwards 5 mm idownwards 5 mm idownwards 5 000 m; Derating as of 1000 m, see catalog maximum 6.6 kg Connections/Terminals 5 orcew-type terminals of or main current circuit screw-type terminals of or ontol circuit screw-type terminals of or ontol circuit screw-type terminals of or ontol circuit screw-type terminals of or DIN cable lug for main contacts stranded 2x (16 95 mm*) of or DIN cable lug for main contacts stranded 2x (25 120 mm*) stranded 100 m Type of connectable conductor cross-sections at AWC conductors for ontrol dircuit 800 m solid 100 m wite leight 900 m oting operation -25 +60 °C oting operation -25 +60 °C oturing storage and transport -40 +80 °C Environmental category 3K6 (no ice formation, only occasional condensation), 3C3 (no satt misi), 3S2 (sand must not get inoi the devices), 3M6 | | 10 mm |
| upwards 100 mm idownwards 75 mm idownwards 5 mm ithe side 5 mm istallation altitude at height above see level maximum 5000 m; Derating as of 1000 m, see catalog Weight without packaging 6.6 kg Connections/Terminals screw-type terminals if or main current circuit screw-type terminals if or nonectable conductor cross-sections erw-type terminals if or DIN cable lug for main contacts stranded 2x (16 95 mm²) if or DIN cable lug for main contacts stranded 2x (25 120 mm²) istallation altitude at height above see level screw-type terminals solid 1x (20 12), 2x (20 14) Wire length 800 m is olid 1x (20 12), 2x (20 14) Wire length 800 m is diving operation -40 +80 °C iduring strange acc. to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no sait mist), 3S2 (sand must not get inside moder), 3S4 (sand must not get inside moder), 3S4 (sand must not get inside moder), 3S4 (sand must not get inside moder), 3S6 (sond screw), 3M6 iduring storage acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) | | 0 mm |
| • downwards75 mm• at the side5 mmInstallation altitude at height above sea level maximum5 000 m; Derating as of 1000 m, see catalogWeight without packaging6.6 kgConnection/Terminals5 crew-type terminals• for main current circuitscrew-type terminals• for ontrol circuitscrew-type terminals• for control circuitscrew-type terminals• for DIN cable lug for main contacts stranded2x (16 95 mm ³)• for DIN cable lug for main contacts finely stranded1x (20 12), 2x (20 14)* WSC conductors for control circuit1x (20 12), 2x (20 14)• solid1x (20 12), 2x (20 14)Wrie length • between soft starter and motor maximum800 m• at the digital inputs at AC maximum100 m* Amblent temperature • during operation-25 +60 °C• during storage and transport-40 +80 °C• during storage and transport3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6• during transporta cc. to IEC 607211K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4• during transporta cc. to IEC 607212K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)* EMC emitted interference acc. to IEC 60947-1CISPR11, ambience A (industrial sector)* Communication module is supported | | 100 mm |
| at the side 5 mm Installation altitude at height above sea level maximum 5 000 m; Derating as of 1000 m, see catalog Weight without packaging 6.6 kg Connections/Terminals screw-type terminals Type of electrical connection screw-type terminals • for main current circuit screw-type terminals • for ontrol circuit screw-type terminals • for DIN cable lug for main contacts stranded 2x (16 95 mm ³) • for DIN cable lug for main contacts finely stranded 2x (25 120 mm ³) Type of connectable conductor cross-sections at AWG conductors for control circuit screw-type terminals • solid 1x (20 12), 2x (20 14) Wire length 800 m • between soft starter and motor maximum 800 m • at the digital inputs at AC maximum 100 m Ambient conditions -25 +60 °C - during operation -25 +60 °C • during operation acc. to IEC 60721 XK6 (no ice formation, only occasional condensation), 3C3 (no sat mist), 3S2 (sand must not get into the devices), 3M6 • during transport acc. to IEC 60721 XK6 (nol yo ccasional condensation), 3C3 (no sat mist), 3S2 (sand must not get inside the devices), 3M6 </td <td></td> <td>75 mm</td> | | 75 mm |
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| maximum default without packaging 6.6 kg Connections/Terminals Screw-type terminals Screw-type terminals • for main current circuit screw-type terminals Screw-type terminals • for Din cable tug for main contacts stranded 2x (16 95 mm ³) 2x (25 120 mm ²) • for Din cable tug for main contacts finely stranded 2x (25 120 mm ²) 2x (25 120 mm ²) • for Din cable tug for main contacts finely stranded 2x (25 120 mm ²) 2x (25 120 mm ²) • for Din cable tug for main contacts finely stranded 2x (25 120 mm ²) 2x (25 120 mm ²) • for Din cable tug for main contacts finely stranded 1x (20 12), 2x (20 14) 2x (25 120 mm ²) • for Din cable tug for main contacts finely stranded 1x (20 12), 2x (20 14) 2x (25 120 mm ²) • for between soft starter and motor maximum solution 800 m 100 m 100 m • at the digital inputs at AC maximum 100 m -25 +60 °C -40 +80 °C • during operation -25 +60 °C -40 +80 °C -40 +80 °C • during operation acc. to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get | | |
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| Type of electrical connection screw-type terminals • for main current circuit screw-type terminals • for control circuit screw-type terminals Type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded 2x (16 95 mm³) • for DIN cable lug for main contacts stranded 2x (25 120 mm²) Type of connectable conductor cross-sections at AWG conductors for control circuit 2x (25 120 mm²) • solid 1x (20 12), 2x (20 14) Wire length 800 m • between soft starter and motor maximum 800 m • at the digital inputs at AC maximum 100 m Ambient temperature - • during storage and transport -40 +80 °C Environmental category 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside the devices), 3M6 • during storage acc. to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside the devices), 3M6 • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fail height 0.3 m) EMC emitted interference acc. to IEC 60947-1 CISPR11, ambience A (industrial sector) Communication module is supported Yes • Modbus TCP | Weight without packaging | 6.6 kg |
| for main current circuit for ontrol circuit for control circuit for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded Type of connectable conductor cross-sections at AWG conductors for control circuit solid tx (20 12), 2x (20 14) Wire length between soft starter and motor maximum at the digital inputs at AC maximum 100 m Amblent temperature during operation c25 +60 °C during storage and transport 40 +80 °C Environmental category during storage acc. to IEC 60721 during storage acc. to IEC 60721 during storage acc. to IEC 60721 tK6 (only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside the devices), 3M6 during storage acc. to IEC 60721 ZK2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) EMC emitted interference acc. to IEC 60947-1 CISPR11, ambience A (industrial sector) Communication module is supported PROFINET standard Yes | Connections/Terminals | |
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| for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded for DIN cable lug for main contacts finely stranded 2x (25 120 mm²) 2x (25 120 m²) 2x (2 | for control circuit | screw-type terminals |
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| AWG conductors for control circuitIx (20 12), 2x (20 14)• solid1x (20 12), 2x (20 14)Wire length800 m• between soft starter and motor maximum800 m• at the digital inputs at AC maximum100 mAmbient conditions | | 2x (25 120 mm²) |
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| Ambient conditions Ambient temperature • during operation • during storage and transport = Ambient temperature • during storage and transport = Ambient category • during operation acc. to IEC 60721 = Attrast of the devices of th | between soft starter and motor maximum | 800 m |
| Ambient temperature -25 +60 °C • during storage and transport -40 +80 °C Environmental category -40 +80 °C • during operation acc. to IEC 60721 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 • during storage acc. to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) EMC emitted interference acc. to IEC 60947-1 CISPR11, ambience A (industrial sector) Communication module is supported PROFINET standard • PROFINET standard Yes • Modbus TCP Yes | • at the digital inputs at AC maximum | 100 m |
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| • during transport acc. to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) EMC emitted interference acc. to IEC 60947-1 CISPR11, ambience A (industrial sector) Communication/ Protocol Ves • PROFINET standard Yes • Modbus TCP Yes | during operation acc. to IEC 60721 | |
| EMC emitted interference acc. to IEC 60947-1 CISPR11, ambience A (industrial sector) Communication/ Protocol Communication module is supported • PROFINET standard Yes • Modbus TCP Yes | • during storage acc. to IEC 60721 | |
| Communication/ Protocol Communication module is supported • PROFINET standard • Modbus TCP Yes | during transport acc. to IEC 60721 | 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) |
| Communication module is supported • PROFINET standard Yes • Modbus TCP Yes | EMC emitted interference acc. to IEC 60947-1 | CISPR11, ambience A (industrial sector) |
| PROFINET standard Yes Modbus TCP Yes | Communication/ Protocol | |
| • Modbus TCP Yes | Communication module is supported | |
| | PROFINET standard | Yes |
| PROFIBUS Yes | Modbus TCP | Yes |
| | • PROFIBUS | Yes |

| UL/CSA ratings | |
|--|--|
| Manufacturer's article number | |
| of the fuse usable up to 575/600 V according to UL | Type: Class RK5 / K5, max. 350 A; Standard fault, Iq = 10 kA |
| of the fuse usable at inside-delta circuit up to 575/600 V according to UL | Type: Class RK5 / K5, max. 350 A |
| Operating power [hp] for three-phase motors | |
| • at 200/208 V at 50 °C rated value | 30 hp |
| • at 220/230 V at 50 °C rated value | 30 hp |
| • at 460/480 V at 50 °C rated value | 75 hp |
| at 200/208 V at inside-delta circuit at 50 °C rated value | 50 hp |
| at 220/230 V at inside-delta circuit at 50 °C rated value | 60 hp |
| at 460/480 V at inside-delta circuit at 50 °C rated value | 125 hp |
| Contact rating of auxiliary contacts according to UL | R300-B300 |
| General Product Approval | Declaration of other Conformity |
| | Confirmation EG-Konf. |

⁻urther information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5234-6TC14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5234-6TC14

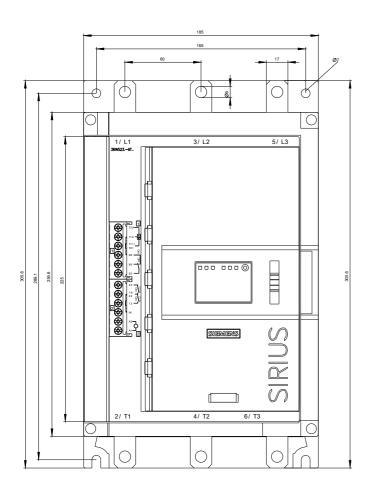
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW5234-6TC14

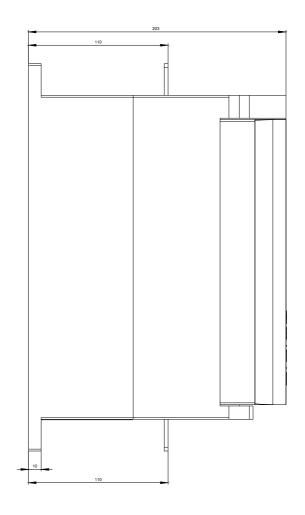
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5234-6TC14&lang=en

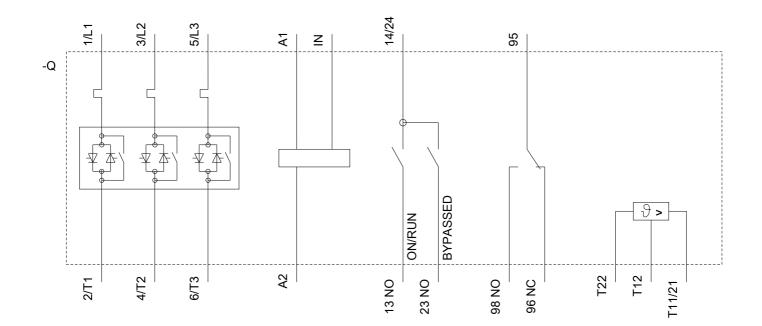
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5234-6TC14/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5234-6TC14&objecttype=14&gridview=view1







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