SIEMENS

Data sheet

3RW5244-2TC15



SIRIUS soft starter 200-600 V 250 A, 110-250 V AC spring-type terminals Thermistor input

| product brand name | SIRIUS |
|---|--|
| product category | Hybrid switching devices |
| product designation | Soft starter |
| product type designation | 3RW52 |
| manufacturer's article number | |
| of standard HMI module usable | 3RW5980-0HS00 |
| of high feature HMI module usable | 3RW5980-0HF00 |
| of communication module PROFINET standard usable | 3RW5980-0CS00 |
| of communication module PROFIBUS usable | 3RW5980-0CP00 |
| of communication module Modbus TCP usable | 3RW5980-0CT00 |
| of communication module Modbus RTU usable | 3RW5980-0CR00 |
| of communication module Ethernet/IP | 3RW5980-0CE00 |
| of circuit breaker usable at 400 V | 3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10 |
| of circuit breaker usable at 500 V | 3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10 |
| of circuit breaker usable at 400 V at inside-delta circuit | 3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10 |
| of circuit breaker usable at 500 V at inside-delta circuit | 3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10 |
| of the gG fuse usable up to 690 V | 2x3NA3354-6; Type of coordination 1, Iq = 65 kA |
| of the gG fuse usable at inside-delta circuit up to 500 V | 2x3NA3354-6; Type of coordination 1, Iq = 65 kA |
| of full range R fuse link for semiconductor protection usable up to 690 V | 3NE1331-0; Type of coordination 2, Iq = 65 kA |
| of back-up R fuse link for semiconductor protection usable up to 690 V | 3NE3336; Type of coordination 2, Iq = 65 kA |
| Seneral technical data | |
| starting voltage [%] | 30 100 % |
| stopping voltage [%] | 50 50 % |
| start-up ramp time of soft starter | 0 20 s |
| current limiting value [%] adjustable | 130 700 % |
| certificate of suitability | |
| CE marking | Yes |
| UL approval | Yes |
| CSA approval | Yes |
| product component is supported | |
| HMI-Standard | Yes |
| HMI-High Feature | Yes |
| product feature integrated bypass contact system | Yes |

| trip class CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2 buffering time in the event of power failure 100 ms • for main current circuit 100 ms • for control circuit 100 ms insulation voltage rated value 600 V degree of pollution 3, acc. to IEC 60947-4-2 Impulse voltage rated value 6 kV blocking voltage of the thyristor maximum 1 600 V service factor 1 surge voltage resistance rated value 6 kV maximum permissible voltage for safe isolation 600 V • between main and auxility circuit 600 V utilization category acc. to IEC 60947-4-2 AC 53a shock resistance 15 g/ 11 ms, from 12 g / 11 ms with potential contact lifting utilization category acc. to IEC 61946-2 Q product function Yes • amp-down (soft stoip) Yes • adjust function Yes • adjust function Yes • adjust function Yes • atom up (soft straing) Yes • atom up (soft straing) Yes • atom coverload protection Yes • atom cove | number of controlled phones | 2 |
|--|---|--|
| buffering time in the event of power failure 100 ms is for concret directif 100 ms insulation votage rade value 600 V degree of politoh 3, acc. to IEC 60947.4-2 impuise votage rade value 6 kV blocking votage of the thyristor maximum 1600 V service factor 1 service factor 1 service factor 6 kV blocking votage of the thyristor maximum 600 V service factor 6 kV votage votage votage of safe loadution - instrume and auxillary votagel AC 53a abook measistance 15 mm to 6 Hz; 2g to 20 Hz votage votage votage for safe loadution Yes instrume to (soft sage) Yes individue current limitation Yes individue current limitation Yes individue durent protection Yes individue durent limitation Yes individue durent protection Yes, Yes individue durent limitation Yes, Yes individue durent protection Yes, Yes indivi | number of controlled phases | 3 01 400 404 (1-5-14) (405 (005 +- 150 00047 4.0 |
| ior name carrent circuit ior control circuit ior control circuit incluation voltage rated value 600 V degree of pollution 3, ac. to IEC 60947-4-2 impuse voltage rated value 600 V isour carted readue | • | CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2 |
| • bit control circuit 000 ms insulation voltage rated value 600 V degree of pollution 3. acc. to EC 60947-4-2 impuise voltage rated value 6 kV blocking voltage of the thyristor maximum 1600 V service factor 1 service factor 1 • between main and auxiliary circuit 600 V uitization category acc. to EC 60947-42 AC Sal shock resistance 15 g / 11 ms, with potential contact lifting vibration resistance 15 g / 11 ms, with potential contact lifting vibration resistance 15 g / 11 ms, with potential contact lifting vibration resistance 15 g / 11 ms, with potential contact lifting vibration resistance 15 g / 11 ms, with potential contact lifting vibration resistance Yes ramg-down (soft stor) Yes • rang-up (soft starting) Yes • soft orque Yes • adjustable current limitation Yes • motor vertoad protection Yes • motor vertoad protection Yes furthory protection (hermistor motor protection and electronic • inside- | - | 400 |
| insulation voltage rated value 900 V degree of pollution 3, acc. to IEC 60947-4-2 impuise voltage rated value 6 kV service factor 1 surge voltage resistance rated value 6 kV waturnue premissible voltage for safe isolation 7 kS vibration resistance 15 mm to F1z; 2g to 500 Hz reference code acc. to IEC 51364-2 0 product function Yes watur constraint imitation Yes watur constraint protection Yes watur RESET Yes watur RESET Yes watur RESET Yes via software configurable Yes via software | | |
| degree of polition 3. acc. to IEC 60947.4.2 imputes voltage rated value 6 kV blocking voltage resistance rated value 6 kV service factor 1 service factor 1 service factor 1 service factor 6 kV maximum permissible voltage for safe isolation 6 kV between main and auximy crouit 600 V utilization category acc. to IEC 60947.4.2 AC 53a shock resistance 15 g / 11 ms. from 12 g / 11 ms with potential contact lifting vibration resistance 15 g / 11 ms. from 12 g / 11 ms with potential contact lifting vibration resistance 15 g / 12 ms. from 12 g / 11 ms with potential contact lifting vibration resistance 15 g / 12 ms. from 12 g / 11 ms with potential contact lifting vibration resistance 15 g / 12 ms. from 12 g / 11 ms with potential contact lifting vibration resistance 15 g / 12 ms. from 12 g / 11 ms with potential contact lifting vibration resistance 15 g / 12 ms. from 12 g / 11 ms with potential contact lifting vibration rule resistance 16 motor potection ves Sector rule rule rule rule rule rule rule rul | | |
| inputs voltage rated value 6 kV blocking voltage of the thyristor maximum 100 V surge voltage resistance rated value 6 kV maximum permissible voltage for safe loaldown 600 V vib/ted safe voltage resistance rated value 600 V shock resistance 15 (1 ms. from 12 g/ 11 ms with potential contact lifting vibration resistance 15 mm to 6 Hz; 2g to 600 Hz ramp-down (soft staring) Yes ramp-down (soft staring) Yes vibration resistance Yes value rate (soft saft mig) Yes | | |
| blocking voltage of the thyristor maximum 1 600 V service factor 6 KV surge voltage resistance rated value 6 KV maximum permissible voltage for safe isolation 6 KV between main and autilizing oricuit 600 V utilization category acc. to IEC 60947-4-2 AC 53a shock resistance 15 mm to 6 Hz; 2g to 500 Hz or reference code acc. to IEC 81346-2 O or ramp-up (soft starting) Yes • ramp-up (soft starting) Yes • adjustable current limitation Yes • adjustable current li | | |
| service fator 1 | · · · · · | |
| surge voltage resistance rated value 6 kV maximum permissible voltage for safe isolation 6 kV between main and auding circuit 600 V utilization category acc. to IEC 60947-4-2 AC 63a shock resistance 15 mm to 6 Hz; 2g to 500 Hz orgeneoc code acc. to IEC 81346-2 0 stort code code code code code code code code | | |
| maximum permissible voltage for safe isolation • between main and auxiliary circuit 600 V utilization category acc. to IEC 60947.4-2 AC 53a shock resistance 15 g/ 11 ms, from 12 g/ 11 ms with potential contact lifting vibration resistance 15 mm to 6 Hz; 2g to 500 Hz reference code acc. to IEC 81346-2 Q product function Yes • ramp-up (soft starting) Yes • and pown (soft stop) Yes • guipartamp down Yes • pump ramp down Yes • motor overload protection Yes • motor overload protection Yes • usiot-RESET Yes • auto-RESET Yes; Type A PTC or Kilxon / Thermoclick • auto-RESET Yes; Only in conjunction with special accessories • error logbook Yes; Only in conjunction with special accessories • via software parameterizable No • via software control sorted circuit Yes • infinice det routu Yes • infinice det routu Yes; Dy lun conjunction with special accessories • inside-det acroutu Yes; Only in conjunction with special accessories <th></th> <th></th> | | |
| • between main and audilary circuit600 Vutilization category acc. to IEC 60947-4-2AC 5aashock resistance15 g/ 11 ms, from 12 g/ 11 ms with potential contact liftingvibration resistance15 mm to 6 Hz; 2g to 500 Hzproduct functionVes• namp-up (soft starting)Yes• namp-up (soft starting)Yes• oding to startingYes• oding to startingYes< | | 6 kV |
| utilization category acc. to IEC 60947-4-2 AC 53a shock resistance 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration resistance G order testance G order testance G order tenction Yes order tenction function Yes order test Yes order | | |
| shock resistance 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration resistance 15 mm to 6 Hz; 2g to 500 Hz optimized function 7 i ramp-up (soft starting) Yes i ramp-down (soft stop) Yes i odf Torque Yes i odf or overload protection Yes i odf or overload protection Yes i odf or thermistor motor protection Yes i odf or thereset | | |
| ybration resistance 15 mm to 6 Hz; 2g to 500 Hz reference code acc. to IEC 81346-2 Q oramp-up (soft starting) Yes i amp-down (soft stop) Yes Soft Torque Yes olight starting) Yes olight starting) Yes olight starting) Yes olight starting Yes output starting Yes Yes | utilization category acc. to IEC 60947-4-2 | AC 53a |
| reference code acc. to IEC 81346-2 Q product function immunol (soft string) i amp-down (soft stop) Yes • adjustble current limitation Yes • adjustble current limitation Yes • intrinsic device protection Yes • inside-delta circuit Yes • unu-RESET Yes • evaluation of thermistor motor protection Yes • inside-delta circuit Yes • evaluation of thermistor motor protection Yes • inside-delta circuit Yes • evaluation function Yes • error logbook Yes; Only in conjunction with special accessories • roor logbook Yes • via software configurable Yes • inalog output No • adoly calcular current Yes • ato 0° crated value 250 A | | |
| product function Yes • camp-up (soft starting) Yes • soft Torque Yes • soft Torque Yes • soft Torque Yes • adjustable current limitation Yes • pump ramp down Yes • intrinsic device protection Yes, Tull motor protection (thermistor motor protection and electronic motor overload protection) • evaluation of thermistor motor protection Yes, Type A PTC or Klixon / Thermoclick • inside-deta circuit Yes • anduol RESET Yes • anduol RESET Yes • manual RESET Yes • error togbook Yes; Only in conjunction with special accessories • orgenating measured value display Yes; Only in conjunction with special accessories • error logbook Yes in connection with the PROFINET Standard communication module • infirmware update Yes • firmware update Yes • forque control No • at 60 °C rated value 250 A • at 60 °C rated value 260 A • at 60 °C rated value 260 A • at 60 °C ra | vibration resistance | |
| • ramp-down (soft starting)Yes• mamp-down (soft start)Yes• soft TorqueYes• adjustable current limitationYes• ump ramp downYes• ump ramp downYes• motor overfoad protectionYes• motor overfoad protectionYes, Type A PTC or Klixon / Thermoclick• initidie: device protectionYes, Type A PTC or Klixon / Thermoclick• initidie: device protectionYes, Type A PTC or Klixon / Thermoclick• initidie: device protectionYes, Type A PTC or Klixon / Thermoclick• initidie: device protectionYes, Type A PTC or Klixon / Thermoclick• initidie: device protectionYes, Type A PTC or Klixon / Thermoclick• initidie: device protectionYes, Type A PTC or Klixon / Thermoclick• initidie: device protectionYes, Type A PTC or Klixon / Thermoclick• initidie: device protectionYes, Type A PTC or Klixon / Thermoclick• initidie: device protectionYes, Type A PTC or Klixon / Thermoclick• initidie: device protectionYes, Type A PTC or Klixon / Thermoclick• initidie: device protectionYes, Type A PTC or Klixon / Thermoclick• initidie: device protectionYes, Type A PTC or Klixon / Thermoclick• initidie: device protectionYes, Type A PTC or Klixon / Thermoclick• initidie: device protectionYes, Type A PTC or Klixon / Thermoclick• initidie: device protectionYes, Type A PTC or Klixon / Thermoclick• initidie: device protectionYes, Type A PTC or Klixon / Thermoclick• initidie: device protectionYes, Type A PTC o | | Q |
| ramp-down (soft stop) Yes Soft Torque Yes Soft Torque Yes adjustable current timitation Yes pump ramp down Yes intifusic device protection Yes intifusic device protection Yes, Type A PTC or Klixon / Thermoclick auto-RESET Yes auto-RESET Yes auto-RESET Yes auto-RESET Yes inside-delta circuit Yes auto-RESET Yes auto-RESET Yes auto-RESET Yes communication function Yes Soft Torted value display Yes Yes onparating measured value display Yes roonduce Yes roond | • | |
| Soft TorqueYes• adjustable current limitationYes• pump ramp downYes• intrinsic device protectionYes• intrinsic device protectionYes• motor overload protectionYes; Full motor protection (thermistor motor protection and electronic motor overload protection)• evaluation of thermistor motor protectionYes; Type A PTC or Klixon / Thermoclick• inside-delta circuitYes• sinde-RSETYes• emote resetYes; By turning off the control supply voltage• communication functionYes; Only in conjunction with special accessories• error logbookYes; Only in conjunction with special accessories• irror logbookYes; In connection with the PROFINET Standard communication module• firmware parameterizableYes• is a software configurableYes• firmware updateYes• forque controlNo• analog outputNo• analog outputYes• analog outputSto A• at 40 °C rated value250 A• at 60 °C rated value381 A• at 60 °C rated value381 A• at 60 °C rated value381 A• at 60 °C rated value200 600 V• at at 60 °C rated value200 600 V• at at 60 °C rated value200 600 V• at 60 °C rated value200 600 V• at 60 °C rated value200 600 V• at a 60 °C rated value200 600 V• at a field-elefacini trated value200 600 V• at | | |
| • adjustable current limitationYes• pump ramp downYes• intrinsite device protectionYes• motor overload protectionYes, Full motor protection (thermistor motor protection and electronic motor overload protection)• evaluation of thermistor motor protectionYes, Full motor protection)• evaluation of thermistor motor protectionYes, Type A PTC or Klixon / Thermoclick• inside-delta circuitYes, Type A PTC or Klixon / Thermoclick• inside-delta circuitYes, Type A PTC or Klixon / Thermoclick• inside-delta circuitYes, Type A PTC or Klixon / Thermoclick• inside-delta circuitYes, Type A PTC or Klixon / Thermoclick• inside-delta circuitYes, Type A PTC or Klixon / Thermoclick• inside-delta circuitYes, Only in conjunction supply voltage• communication functionYes• operating measured value displayYes, Only in conjunction with special accessories• via software parameterizableNo• via software parameterizableYes• via software configurableYes• removable terminal for control circuitYes• analog outputYes• analog outputNo• analog outputNo• at 40 °C rated value250 A• at 60 °C rated value321 A• at 60 °C rated value331 A• at 60 °C rated value346 A• at 60 °C rated value346 A• at 60 °C rated value320 600 V• at 60 °C rated value200 600 V• at 60 °C rated value200 | | |
| • pump ramp downYes• intrinsic device protectionYes• motor overload protectionYes, Type A PTC or Klixon / Thermoclick• evaluation of thermistor motor protectionYes, Type A PTC or Klixon / Thermoclick• inside-delta circuitYes• manual RESETYes• ermote resetYes, By turning off the control supply voltage• communication functionYes, Only in conjunction with special accessories• ermote resetYes, Only in conjunction with special accessories• ermor logbookYes, Yes• via software parameterizableNo• via software configurableYes• removable terminal for control circuitYes• firmware updateYes• removable terminal for control circuitYes• analog outputNo• operating outputNo• operational current200 A• at 40 °C rated value250 A• at 60 °C rated value250 A• at 60 °C rated value346 A• at 60 °C rated value366 A </th <th>•</th> <th>Yes</th> | • | Yes |
| • initinisic device protectionYes• motor overload protectionYes; Full motor protection (thermistor motor protection and electronic motor overload protection)• evaluation of thermistor motor protectionYes; Type A PTC or Klixon / Thermoclick• inside-defla circuitYes• auto-RESETYes• manual RESETYes• manual RESETYes; By turning off the control supply voltage• communication functionYes; Only in conjunction with special accessories• operating measured value displayYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes; in connection with the PROFINET Standard communication module• infmware updateYes• removable terminal for control circuitYes• torque controlNo• analog outputNo• operating outputYes• at 40 °C rated value200 A• at 60 °C rated value200 A• at 60 °C rated value381 A• at 60 °C rated value200 600 V• at 1 inside-defla circuit rated value200 600 V• at inside-defla circuit rated value200 600 V </th <th>,</th> <th>Yes</th> | , | Yes |
| • motor overload protectionYes; Full motor protection (thermistor motor protection and electronic motor overload protection)• evaluation of thermistor motor protectionYes; Type A PTC or Klixon / Thermoclick• inside-delta circuitYes• auto-RESETYes• manual RESETYes• remote resetYes; By turning off the control supply voltage• communication functionYes; Only in conjunction with special accessories• error logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes• ROFlenergyYes; in connection with the PROFINET Standard communication module• firmware updateYes• removable terminal for control circuitYes• torque controlYes• analog outputNo• at 40 °C rated value250 A• at 60 °C rated value250 A• at 60 °C rated value364 A• at 60 °C rated value260 600 V• at 10 °C rated value364 A• at 10 °C rated value364 A | | |
| evaluation of themistor motor protection Yes; Type A PTC or Kilxon / Thermoclick • inside-delta circuit Yes; Type A PTC or Kilxon / Thermoclick • auto-RESET Yes • auto-RESET Yes • manual RESET Yes; By turning off the control supply voltage • communication function Yes; Only in conjunction with special accessories • communication function Yes; Only in conjunction with special accessories • via software parameterizable Yes; Only in conjunction with special accessories • via software configurable Yes; only in conjunction with special accessories • via software configurable Yes • PROFlenergy Yes; in connection with the PROFINET Standard communication module • firmware update Yes • removable terminal for control circuit Yes • torque control No • analog output Yes • at 40 °C rated value 250 A • at 40 °C rated value 250 A • at 40 °C rated value 331 A • at 40 °C rated value 345 A • at 40 °C rated value 345 A • at 60 °C rated value 345 A <th> intrinsic device protection </th> <th>Yes</th> | intrinsic device protection | Yes |
| • inside-delta circuitYes• auto-RESETYes• manual RESETYes• manual RESETYes: By turning off the control supply voltage• communication functionYes: Only in conjunction with special accessories• communication functionYes: Only in conjunction with special accessories• error logbookYes: Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes: in connection with the PROFINET Standard communication module• firmware updateYes• forque controlYes• torque controlNo• analog outputNo• analog outputNo• at 40 °C rated value220 A• at 60 °C rated value333 A• at 60 °C rated value346 A• at 60 °C rated value341 A• at 60 °C rated value346 A• at 60 °C rated value360 ·C rated value• at 60 °C rated value360 ·C rated value• at 60 °C rated value341 A• at 60 °C rated value341 A• at 60 °C rated value346 A• at 60 °C rated value346 A• at 60 °C rated value346 A• at 60 °C rated value15 %• rated value10 %• rated value10 %• at 60 °C rated value10 %• at 60 °C rated value10 % | motor overload protection | |
| • auto-RESETYes• manual RESETYes• remote resetYes, By turning off the control supply vollage• communication functionYes, By turning off the control supply vollage• communication functionYes; Only in conjunction with special accessories• operating measured value displayYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes; in connection with the PROFINET Standard communication module• FROFIenergyYes; in connection with the PROFINET Standard communication module• firmware updateYes• removable terminal for control circuitYes• torque controlNo• analog outputNo• at 40 °C rated value250 A• at 40 °C rated value220 A• at 60 °C rated value250 A• at 60 °C rated value33 A• at 60 °C rated value346 A• at 60 °C rated value346 A• at 60 °C rated value200 600 V• at 60 °C rated value15 % | evaluation of thermistor motor protection | Yes; Type A PTC or Klixon / Thermoclick |
| • manual RESETYes• remote resetYes; By turning off the control supply voltage• communication functionYes; Only in conjunction with special accessories• operating measured value displayYes; Only in conjunction with special accessories• error logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes; in connection with the PROFINET Standard communication module• firmware updateYes• removable terminal for control circuitYes• torque controlNo• analog outputNo• over ElectronicsYesoperational current250 A• at 40 °C rated value250 A• at 60 °C rated value200 A• at 40 °C rated value381 A• at 60 °C rated value381 A• at 60 °C rated value200 600 V• at 60 °C rated value <th> inside-delta circuit </th> <th>Yes</th> | inside-delta circuit | Yes |
| • remote resetYes; By turning off the control supply voltage• communication functionYes;• operating measured value displayYes; Only in conjunction with special accessories• error logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes; in connection with the PROFINET Standard communication module• PROFIenergyYes; in connection with the PROFINET Standard communication module• firmware updateYes• removable terminal for control circuitYes• torque controlNo• analog outputNo• operational current250 A• at 40 °C rated value250 A• at 60 °C rated value250 A• at 60 °C rated value433 A• at 60 °C rated value381 A• at 60 °C rated value200 600 V• at 60 °C rated value200 600 V• at 60 °C rated value200 600 V• at 60 °C rated value36 A• at 60 °C rated value15 % <th>auto-RESET</th> <th>Yes</th> | auto-RESET | Yes |
| • communication functionYes• operating measured value displayYes; Only in conjunction with special accessories• error logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes• PROFlenergyYes; in connection with the PROFINET Standard communication module• firmware updateYes• removable terminal for control circuitYes• trauge controlNo• analog outputNo• or at 40 °C rated value250 A• at 60 °C rated value200 A• operational current381 A• at 60 °C rated value381 A• at 60 °C rated value381 A• at 60 °C rated value381 A• at 60 °C rated value360 A• at 60 °C rated value15 %• relative negative tolerance of the operating voltage15 %• relative negative tolerance of the operating voltage15 % | manual RESET | Yes |
| • operating measured value displayYes; Only in conjunction with special accessories• error logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes• PROFlenergyYes; in connection with the PROFINET Standard communication module• firmware updateYes; in connection with the PROFINET Standard communication module• firmware updateYes• removable terminal for control circuitYes• torque controlNo• analog outputNo• analog outputNo• at 40 °C rated value250 A• at 60 °C rated value200 A• at 60 °C rated value381 A• at 60 °C rated value381 A• at 60 °C rated value200 600 V• at 60 vic rated value200 600 V• at 60 vic rated value200 600 V• at 60 vic rated value200 600 V• at inside-delta circuit rated value15 %• relative negative tolerance of the operating voltage15 % | remote reset | Yes; By turning off the control supply voltage |
| • error logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes• PROFlenergyYes; in connection with the PROFINET Standard communication module• firmware updateYes• removable terminal for control circuitYes• torque controlNo• analog outputNo• orene ElectronicsYes• ard 0 °C rated value250 A• at 40 °C rated value250 A• at 60 °C rated value200 A• at 60 °C rated value343 A• at 60 °C rated value346 A• at 60 °C rated value346 A• at 60 °C rated value346 A• at 60 °C rated value200 600 V• at 60 °C rated value200 600 V• at inside-delta circuit rated value15 % | communication function | Yes |
| • via software parameterizableNo• via software configurableYes• PROFlenergyYes; in connection with the PROFINET Standard communication module• firmware updateYes• removable terminal for control circuitYes• torque controlNo• analog outputNo• over ElectronicsNo• over Electronics250 A• at 40 °C rated value220 A• at 40 °C rated value220 A• at 40 °C rated value381 A• at 60 °C rated value381 A• at 60 °C rated value346 A• at 60 °C rated value346 A• at 60 °C rated value200 600 V• at 60 °C rated value15 %• rated value200 600 V• at for circuit rated value10 %• rated value10 %• at for circuit rated value15 % | operating measured value display | Yes; Only in conjunction with special accessories |
| • via software configurableYes• PROFlenergyYes, in connection with the PROFINET Standard communication module• firmware updateYes• removable terminal for control circuitYes• torque controlNo• analog outputNo• operational current250 A• at 40 °C rated value220 A• at 60 °C rated value220 A• at 60 °C rated value433 A• at 60 °C rated value381 A• at 60 °C rated value381 A• at 60 °C rated value200 600 V• at 60 °C rated value200 600 V• at 60 °C rated value15 %• at 60 °C rated value15 % | error logbook | Yes; Only in conjunction with special accessories |
| • PROFlenergyYes; in connection with the PROFINET Standard communication module• firmware updateYes;• removable terminal for control circuitYes• torque controlNo• torque controlNo• analog outputNo• over ElectronicsSover Electronics• at 40 °C rated value250 A• at 60 °C rated value200 A• at 60 °C rated value200 A• at 60 °C rated value381 A• at 60 °C rated value381 A• at 60 °C rated value200 600 V• at 60 °C rated value200 600 V• at 60 °C rated value15 %• relative negative tolerance of the operating voltage15 % | via software parameterizable | No |
| module• firmware updateYes• removable terminal for control circuitYes• torque controlNo• analog outputNo• analog outputNo• over ElectronicsNo• at 40 °C rated value250 A• at 50 °C rated value220 A• at 60 °C rated value200 A• at 60 °C rated value381 A• at 60 °C rated value346 A• at 60 °C rated value346 A• at 60 °C rated value346 A• at 60 °C rated value15% (60 V)• rated value200 600 V• rated value15% (70 %) | via software configurable | Yes |
| • removable terminal for control circuitYes• torque controlNo• analog outputNo• analog outputNo• over ElectronicsSo No• at 40 °C rated value250 A• at 60 °C rated value220 A• at 60 °C rated value200 A• at 60 °C rated value381 A• at 60 °C rated value381 A• at 60 °C rated value381 A• at 60 °C rated value200 600 V• at 60 °C rated value300 600 V• at 60 °C rated value200 600 V• at 60 °C rated value15 %• at side-delta circuit rated value200 600 V• at side-delta circuit rated value15 % | PROFlenergy | , |
| • torque controlNo• analog outputNo• over Electronics• operational current250 A• at 40 °C rated value250 A• at 50 °C rated value200 A• at 60 °C rated value200 A• operational current at inside-delta circuit433 A• at 60 °C rated value381 A• at 60 °C rated value346 A• at 60 °C rated value346 A• at 60 °C rated value200 600 V• at 60 °C rated value346 A• at 60 °C rated value200 600 V• at enside-delta circuit rated value200 600 V• at enside-delta circuit rated value200 600 V• at inside-delta circuit rated value10 %• relative negative tolerance of the operating voltage-15 % | • | |
| • analog outputNo• ower Electronics• operational current250 A• at 40 °C rated value250 A• at 50 °C rated value200 A• at 60 °C rated value200 A• operational current at inside-delta circuit433 A• at 40 °C rated value381 A• at 60 °C rated value346 A• operating voltage200 600 V• rated value200 600 V• at inside-delta circuit rated value15 %• relative negative tolerance of the operating voltage15 % | | Yes |
| ower Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value • at 60 °C rated value • at 0 °C rated value • at 50 °C rated value • at 50 °C rated value • at 60 °C rated value • at inside-delta circuit rated value 200 600 V • at inside-delta circuit rated value • 15 % relative negative tolerance of the operating voltage | torque control | No |
| operational current250 A• at 40 °C rated value250 A• at 50 °C rated value220 A• at 60 °C rated value200 Aoperational current at inside-delta circuit433 A• at 40 °C rated value433 A• at 60 °C rated value381 A• at 60 °C rated value346 Aoperating voltage200 600 V• rated value200 600 V• at inside-delta circuit rated value210 600 V• at inside-delta circuit value210 600 V• at inside-delta circuit value110 % | analog output | No |
| • at 40 °C rated value250 A• at 50 °C rated value220 A• at 60 °C rated value200 Aoperational current at inside-delta circuit-• at 40 °C rated value433 A• at 50 °C rated value381 A• at 60 °C rated value346 Aoperating voltage-• rated value200 600 V• at inside-delta circuit rated value200 600 Vrelative negative tolerance of the operating voltage-15 %relative negative tolerance of the operating voltage-15 % | Power Electronics | |
| a t 50 °C rated value220 A• at 60 °C rated value200 Aoperational current at inside-delta circuit | • | |
| • at 60 °C rated value200 Aoperational current at inside-delta circuit• at 40 °C rated value433 A• at 40 °C rated value381 A• at 50 °C rated value346 Aoperating voltage• rated value200 600 V• at inside-delta circuit rated value200 600 Vrelative negative tolerance of the operating voltage-15 %relative negative tolerance of the operating voltage at inside-delta circuit10 % | ● at 40 °C rated value | 250 A |
| operational current at inside-delta circuit433 A• at 40 °C rated value433 A• at 50 °C rated value381 A• at 60 °C rated value346 Aoperating voltage200 600 V• rated value200 600 V• at inside-delta circuit rated value200 600 Vrelative negative tolerance of the operating voltage-15 %relative negative tolerance of the operating voltage at inside-delta circuit10 %relative negative tolerance of the operating voltage at inside-delta circuit-15 % | ● at 50 °C rated value | 220 A |
| • at 40 °C rated value433 A• at 50 °C rated value381 A• at 60 °C rated value346 Aoperating voltage200 600 V• rated value200 600 V• at inside-delta circuit rated value200 600 Vrelative negative tolerance of the operating voltage-15 %relative negative tolerance of the operating voltage at inside-delta circuit10 %relative negative tolerance of the operating voltage at inside-delta circuit-15 % | • at 60 °C rated value | 200 A |
| • at 50 °C rated value381 A• at 60 °C rated value346 Aoperating voltage200 600 V• rated value200 600 V• at inside-delta circuit rated value200 600 Vrelative negative tolerance of the operating voltage-15 %relative negative tolerance of the operating voltage at inside-delta circuit10 %relative negative tolerance of the operating voltage at inside-delta circuit-15 % | - | |
| • at 60 °C rated value346 Aoperating voltage200 600 V• rated value200 600 V• at inside-delta circuit rated value200 600 Vrelative negative tolerance of the operating voltage-15 %relative negative tolerance of the operating voltage at inside-delta circuit10 %relative negative tolerance of the operating voltage at inside-delta circuit15 % | | |
| operating voltage 200 600 V • rated value 200 600 V • at inside-delta circuit rated value 200 600 V relative negative tolerance of the operating voltage -15 % relative negative tolerance of the operating voltage at inside-delta circuit 10 % relative negative tolerance of the operating voltage at inside-delta circuit -15 % | | |
| • rated value 200 600 V • at inside-delta circuit rated value 200 600 V relative negative tolerance of the operating voltage -15 % relative negative tolerance of the operating voltage at inside-delta circuit 10 % relative negative tolerance of the operating voltage at inside-delta circuit -15 % | ● at 60 °C rated value | 346 A |
| • at inside-delta circuit rated value 200 600 V relative negative tolerance of the operating voltage -15 % relative negative tolerance of the operating voltage 10 % relative negative tolerance of the operating voltage at inside-delta circuit -15 % | | |
| relative negative tolerance of the operating voltage -15 % relative positive tolerance of the operating voltage 10 % relative negative tolerance of the operating voltage at inside-delta circuit -15 % | rated value | |
| relative positive tolerance of the operating voltage 10 % relative negative tolerance of the operating voltage at inside-delta circuit -15 % | at inside-delta circuit rated value | 200 600 V |
| relative negative tolerance of the operating voltage at inside-delta circuit | | |
| inside-delta circuit | | |
| relative positive tolerance of the operating voltage at 10 % | inside-delta circuit | |
| | relative positive tolerance of the operating voltage at | 10 % |

| inside-delta circuit | |
|---|----------------|
| operating power for 3-phase motors | |
| • at 230 V at 40 °C rated value | 75 kW |
| at 230 V at inside-delta circuit at 40 °C rated value | 132 kW |
| at 400 V at 40 °C rated value | 132 kW |
| at 400 V at inside-delta circuit at 40 °C rated value | 250 kW |
| at 500 V at 40 °C rated value | 160 kW |
| at 500 V at inside-delta circuit at 40 °C rated value | 315 kW |
| Operating frequency 1 rated value | 50 Hz |
| Operating frequency 2 rated value | 60 Hz |
| relative negative tolerance of the operating frequency | -10 % |
| relative positive tolerance of the operating frequency | 10 % |
| adjustable motor current | |
| at rotary coding switch on switch position 1 | 100 A |
| at rotary coding switch on switch position 2 | 110 A |
| at rotary coding switch on switch position 3 | 120 A |
| at rotary coding switch on switch position 4 | 130 A |
| at rotary coding switch on switch position 5 | 140 A |
| • at rotary coding switch on switch position 6 | 150 A |
| at rotary coding switch on switch position 7 | 160 A |
| at rotary coding switch on switch position 8 | 170 A |
| at rotary coding switch on switch position 9 | 180 A |
| at rotary coding switch on switch position 10 | 190 A |
| at rotary coding switch on switch position 11 | 200 A |
| at rotary coding switch on switch position 12 | 210 A |
| at rotary coding switch on switch position 13 at rotary coding switch on switch position 14 | 220 A |
| at rotary coding switch on switch position 14 at rotary coding switch on switch position 15 | 230 A 240 A |
| at rotary coding switch on switch position 15 at rotary coding switch on switch position 16 | 250 A |
| at rotary coding switch on switch position 16 minimum | 100 A |
| adjustable motor current | 100 A |
| for inside-delta circuit at rotary coding switch on | 173 A |
| switch position 1 | |
| for inside-delta circuit at rotary coding switch on switch position 2 | 191 A |
| for inside-delta circuit at rotary coding switch on switch position 3 | 208 A |
| for inside-delta circuit at rotary coding switch on switch position 4 | 225 A |
| for inside-delta circuit at rotary coding switch on switch position 5 | 242 A |
| for inside-delta circuit at rotary coding switch on switch position 6 | 260 A |
| for inside-delta circuit at rotary coding switch on switch position 7 for inside delta circuit at rotary coding switch on | 277 A |
| for inside-delta circuit at rotary coding switch on switch position 8 | 294 A |
| for inside-delta circuit at rotary coding switch on switch position 9 for inside delta circuit at rotary coding switch on | 312 A |
| for inside-delta circuit at rotary coding switch on switch position 10 | 329 A |
| for inside-delta circuit at rotary coding switch on switch position 11 for inside delta circuit at rotary coding switch on | 346 A |
| for inside-delta circuit at rotary coding switch on switch position 12 for inside delta circuit at rotary coding switch on | 364 A |
| for inside-delta circuit at rotary coding switch on switch position 13 for inside delta circuit at rotary coding switch on | 381 A |
| for inside-delta circuit at rotary coding switch on switch position 14 for inside delta circuit at rotary coding switch on | 398 A |
| for inside-delta circuit at rotary coding switch on switch position 15 | 416 A |
| for inside-delta circuit at rotary coding switch on | 433 A |

| switch position 16 | |
|--|--|
| at inside-delta circuit minimum | 173 A |
| minimum load [%] | 15 %; Relative to smallest settable le |
| power loss [W] for rated value of the current at AC | |
| • at 40 °C after startup | 87 W |
| • at 50 °C after startup | 78 W |
| • at 60 °C after startup | 72 W |
| power loss [W] at AC at current limitation 350 % | 12 11 |
| • at 40 °C during startup | 3 818 W |
| • at 50 °C during startup | 3 188 W |
| at 60 °C during startup | 2 799 W |
| Control circuit/ Control | |
| type of voltage of the control supply voltage | AC |
| control supply voltage at AC at 50 Hz | 110 250 V |
| | 110 250 V |
| control supply voltage at AC at 60 Hz relative negative tolerance of the control supply | -15 % |
| voltage at AC at 50 Hz | |
| relative positive tolerance of the control supply voltage at AC at 50 Hz | 10 % |
| relative negative tolerance of the control supply voltage at AC at 60 Hz | -15 % |
| relative positive tolerance of the control supply voltage at AC at 60 Hz | 10 % |
| control supply voltage frequency | 50 60 Hz |
| relative negative tolerance of the control supply voltage frequency | -10 % |
| relative positive tolerance of the control supply voltage frequency | 10 % |
| control supply current in standby mode rated value | 30 mA |
| holding current in bypass operation rated value | 100 mA |
| locked-rotor current at close of bypass contact maximum | 2.2 A |
| inrush current peak at application of control supply voltage maximum | 12.2 A |
| duration of inrush current peak at application of control supply voltage | 2.2 ms |
| 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 |
| Inputs/ Outputs | |
| number of digital inputs | 1 |
| number of inputs for thermistor connection | 1; Type A PTC or Klixon / Thermoclick |
| number of digital outputs | 3 |
| not parameterizable | 2 |
| digital output version | 2 normally-open contacts (NO) / 1 changeover contact (CO) |
| number of analog outputs | 0 |
| switching capacity current of the relay outputs | |
| at AC-15 at 250 V rated value | 3 A |
| • at DC-13 at 24 V rated value | 1 A |
| Installation/ mounting/ dimensions | |
| mounting position | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back |
| fastening method | screw fixing |
| height | 393 mm |
| width | 210 mm |
| depth | 203 mm |
| required spacing with side-by-side mounting | |
| forwards | 10 mm |
| backwards | 0 mm |
| upwards | 100 mm |

| downwards | 75 mm |
|---|---|
| at the side | 5 mm |
| weight without packaging | 9.9 kg |
| Connections/ Terminals | , |
| type of electrical connection | |
| for main current circuit | busbar connection |
| for control circuit | spring-loaded terminals |
| width of connection bar maximum | 45 mm |
| wire length for thermistor connection | |
| with conductor cross-section = 0.5 mm² maximum | 50 m |
| with conductor cross-section = 1.5 mm² maximum | 150 m |
| • with conductor cross-section = 2.5 mm ² maximum | 250 m |
| type of connectable conductor cross-sections | |
| for DIN cable lug for main contacts stranded | 2x (50 240 mm²) |
| for DIN cable lug for main contacts finely stranded | 2x (70 240 mm²) |
| type of connectable conductor cross-sections | |
| for control circuit solid | 2x (0.25 1.5 mm²) |
| for control circuit finely stranded with core end processing | 2x (0.25 1.5 mm²) |
| at AWG cables for control circuit solid | 2x (24 16) |
| at AWG cables for control circuit finely stranded with core end processing | 2x (24 16) |
| wire length | 000 |
| between soft starter and motor maximum | 800 m |
| at the digital inputs at AC maximum | 100 m |
| tightening torque | 14 - 24 N m |
| for main contacts with screw-type terminals for ouviliant and control contacts with screw type | 14 24 N·m |
| for auxiliary and control contacts with screw-type terminals | 0.8 1.2 N·m |
| tightening torque [lbf·in] | 104 040 lbf in |
| for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals | 124 210 lbf·in 7 10.3 lbf·in |
| Ambient conditions | |
| installation altitude at height above sea level maximum | 5 000 m; Derating as of 1000 m, see catalog |
| · | |
| ambient temperature during operation | -25 +60 °C; Please observe derating at temperatures of 40 °C or above |
| ambient temperature during storage and transport | -40 +80 °C |
| environmental category | |
| 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 60947-4-2: Class A |
| Communication/ Protocol | |
| communication module is supported | |
| PROFINET standard | Yes |
| • EtherNet/IP | Yes |
| Modbus RTU | Yes |
| Modbus TCP | Yes |
| PROFIBUS | Yes |
| UL/CSA ratings | |
| manufacturer's article number | |
| of circuit breaker | |
| — usable for Standard Faults at 460/480 V according to UL usable for High Faults at 460/480 V according | Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA |
| — usable for High Faults at 460/480 V according to UL | Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA |
| — usable for Standard Faults at 460/480 V at | Siemens type: 3VA54, max. 600 A; Iq = 18 kA |

| Inside-della c | virouit according to UI | | | | | |
|--|--|---|---|-----------------------------------|-------------------------|---------------------|
| — usable for | Fircuit according to UL High Faults at 460/480 According to UL | V at inside- | Siemens type: | 3VA54, max. 6 | 00 A; lq max = 65 kA | A |
| | Standard Faults at 575 | /600 V | Siemens type: | 3VA53, max. 4 | 00 A or 3VA54, max. | . 600 A; Iq = 18 kA |
| — usable for | Standard Faults at 575 Fircuit according to UL | /600 V at | Siemens type: | 3VA54, max. 6 | 00 A; Iq = 18 kA | |
| of the fuse | | | | | | |
| usable for according to | Standard Faults up to UL | 575/600 V | Type: Class J / | L, max. 800 A; | ; lq = 18 kA | |
| usable for according to | High Faults up to 575/6 UL | 600 V | Type: Class J / | L, max. 800 A; | ; Iq = 100 kA | |
| — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL | | Type: Class J / L, max. 800 A; Iq = 18 kA | | | | |
| | High Faults at inside-d according to UL | elta circuit up | Type: Class J / | L, max. 800 A; | ; Iq = 100 kA | |
| operating power [hp |] for 3-phase motors | | | | | |
| • at 200/208 V at | 50 °C rated value | | 60 hp | | | |
| • at 220/230 V at | 50 °C rated value | | 75 hp | | | |
| | 50 °C rated value | | 150 hp | | | |
| | 50 °C rated value | | 200 hp | | | |
| | | 0 00 | | | | |
| value | inside-delta circuit at 5 | | 125 hp | | | |
| value | inside-delta circuit at 5 | | 150 hp | | | |
| value | inside-delta circuit at 5 | | 300 hp | | | |
| value | inside-delta circuit at 5 | | 350 hp | | | |
| | xiliary contacts accor | ding to UL | R300-B300 | | | |
| Safety related data | | | | | | |
| | | 2 00520 | | cover | | |
| protection class IP of | on the front acc. to IE | - 60529 | IP00; IP20 with | COVEI | | |
| | the front acc. to IEC | | | | t from the front with c | cover |
| | the front acc. to IEC | | | vertical contac | | cover |
| touch protection on electromagnetic cor | the front acc. to IEC (npatibility | | finger-safe, for | vertical contac | | cover |
| touch protection on electromagnetic cor Certificates/ approval | the front acc. to IEC (npatibility s | | finger-safe, for | vertical contac | | |
| touch protection on electromagnetic cor | the front acc. to IEC (npatibility s | | finger-safe, for | vertical contac | | EMC |
| touch protection on electromagnetic cor Certificates/ approval General Product Ap | the front acc. to IEC (npatibility s pproval | 50529 | finger-safe, for in accordance | vertical contac with IEC 60947 | | |
| touch protection on electromagnetic cor Certificates/ approval | the front acc. to IEC (npatibility s pproval | | finger-safe, for in accordance | vertical contac | | |
| touch protection on electromagnetic cor Certificates/ approval General Product Ap | the front acc. to IEC (npatibility s pproval | 50529 | finger-safe, for in accordance E ates Marine | vertical contac with IEC 60947 | | |
| touch protection on electromagnetic cor Certificates/ approval General Product Ap EGE CEA | the front acc. to IEC (npatibility s oproval | 50529 UL Test Certifica <u>Type Tes</u> <u>Certificates/T</u> | finger-safe, for in accordance E ates Marine | vertical contac with IEC 60947 | -4-2 EAC | |
| touch protection on electromagnetic cor Certificates/ approval General Product Ap ECEA | the front acc. to IEC (npatibility s oproval | 50529 UL Test Certifica <u>Type Tes</u> <u>Certificates/T</u> | finger-safe, for in accordance E ates Marine | vertical contac with IEC 60947 | -4-2 EAC | |
| touch protection on electromagnetic cor Certificates/ approval General Product Ap EGE CEA | the front acc. to IEC (npatibility s oproval | 50529 UL Test Certifica <u>Type Tes</u> <u>Certificates/T</u> | finger-safe, for in accordance | vertical contac with IEC 60947 | -4-2 EAC | |

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5244-2TC15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5244-2TC15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5244-2TC15

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5244-2TC15&lang=en

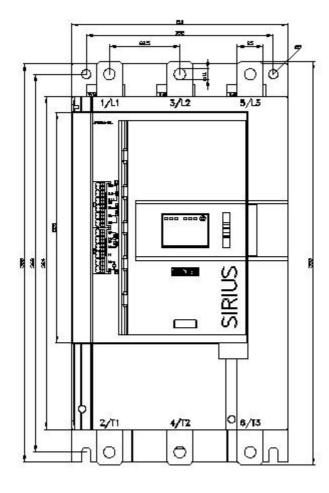
Characteristic: Tripping characteristics, I²t, Let-through current

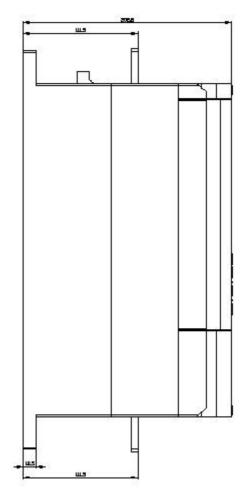
https://support.industry.siemens.com/cs/ww/en/ps/3RW5244-2TC15/char

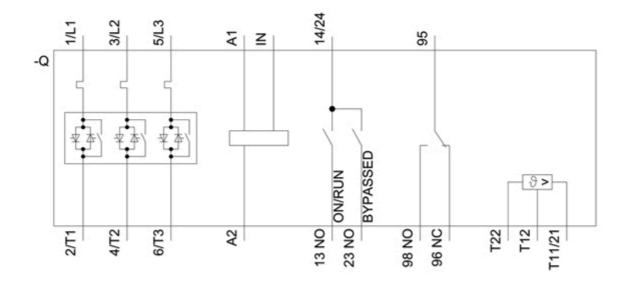
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5244-2TC15&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

https://support.industry.siemens.com/cs/ww/en/view/101494917







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