SIEMENS

Data sheet 3RW5225-3TC15



SIRIUS soft starter 200-600 V 63 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 | 3VA2163-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10 |
| of circuit breaker usable at 500 V | 3VA2163-7MN32-0AA0; Type of coordination 1, lq = 20 kA, CLASS 10 |
| of circuit breaker usable at 400 V at inside-delta circuit | 3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10 |
| of circuit breaker usable at 500 V at inside-delta circuit | 3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10 |
| of the gG fuse usable up to 690 V | 3NA3830-6; Type of coordination 1, Iq = 65 kA |
| of the gG fuse usable at inside-delta circuit up to 500 V | 3NA3830-6; Type of coordination 1, Iq = 65 kA |
| of full range R fuse link for semiconductor protection usable up to 690 V | 3NE1022-0: Type of coordination 2, Iq = 65 kA |
| of back-up R fuse link for semiconductor protection usable up to 690 V | 3NE8024-1; Type of coordination 2, Iq = 65 kA |

| General technical data | |
|--|----------------------|
| starting voltage [%] | 30 100 % |
| stopping voltage [%] | 50 %; non-adjustable |
| 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 | |
| HMI-High Feature | No |
| is supported HMI-Standard | Yes |
| is supported HMI-High Feature | Yes |
| product feature integrated bypass contact system | Yes |
| number of controlled phases | 3 |

| buffering time in the event of power failure • for main current circuit • for main c | trin class | CLASS 10A (default) / 10E / 20E; 200, to IEC 60047 4.2 |
|--|--|--|
| • for main current circuit • for portional circuit insulation voltage rated value degree of pollution purpulse voltage rated value for pollution • the purpulse voltage rated value for pollution • the purpulse voltage rated value • the purpulse voltage voltage voltage rated value • the purpulse voltage voltage voltage rated value • voltage voltage voltage voltage rated value • voltage voltage voltage voltage voltage at institute older voltage at voltage volt | trip class | CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2 |
| For control circuit 100 ms | · | 100 mg |
| Insulation voitage rated value degree of poliution 3, acc. to IEC 60947-4-2 incipulse voitage rated value blocking voitage of the thyristor maximum 1 800 V surge voitage resistance rated value a ward voitage resistance rated value between main and auxiliary circuit shock resistance vibration vibration resistance vibration resistance vibration vibration resistance vibration vibration resistance vibration vibration vibration re | | |
| Impulse voltage rated value 6kV 1800 V 1 | | |
| Impulse voltage rated value | | |
| | | |
| surge voltage resistance rated value 6kV warge voltage resistance rated value 6kV w between main and auxiliary crout 6kV shock resistance 15 g/11 ms, from 12 g/11 ms with potential contact lifting wibration resistance 15 mm to 6 Hz; 2g to 500 Hz wibration resistance 2 ms more resistance wibration resistance prohibitance (Date) Q2 (152018) *** ramp-down (soft stop) 4 ms *** ramp-down (soft stop) 4 ms *** adjustable current limitation 4 ms *** pump ramp down 4 ms *** evaluation of thermistor motor protection 4 ms *** evaluation of thermistor motor pro | | |
| surge voltage resistance rated value 6 kV a between main and auxilary circuit 600 V 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 vibilization category according to IEC 60947-4-2 AC 53a reference code according to IEC 81346-2 Q 9 ramp-up (soft starting) Yes • ramp-up (soft starting) Yes • saft forque Yes • saft prage down (soft stop) Yes • soft forque Yes • soft forque Yes • pump ramp down Yes • intrinsic device protection Yes • auto-RESET Yes • evaluation of thermistor motor protection Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) • auto-RESET Yes • montor RESET Yes • communication function Yes • communication function Yes • perating measured value display Yes; in connection with special accessories • removable terminal for control circuit Yes <th></th> <th></th> | | |
| within permissible voltage for safe isolation between main and auxiliary circuit block resistance vibration vibration | | |
| between main and auxiliary circuit 600 V 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration resistance 15 m m to 6 Hz; 2g to 500 Hz utilization category according to IEC 60947-4-2 AC 53a reference code according to IEC 61948-2 Q Substance Prohibitance (Date) Yes product function Yes * ramp-up (soft starting) Yes * soft Torque Yes * adjustable current limitation Yes * pump ramp down Yes * intrinsic device protection Yes * evaluation of thermistor motor protection Yes, Full motor protection (thermistor motor protection and electronic motor overload protection) * evaluation of thermistor motor protection Yes, Full motor protection (thermistor motor protection and electronic motor overload protection) * evaluation of thermistor motor protection Yes, Full motor protection (thermistor motor protection and electronic motor overload protection) * evaluation of thermistor motor protection Yes, Full motor protection (thermistor motor protection and electronic motor overload protection) * evaluation of thermistor motor protection Yes, Full motor protection (thermistor motor protection and electronic motor evaluation for example of the protection and electronic mot | | 6 KV |
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| utilization category according to IEC 80947-4-2 reference code according to IEC 81346-2 Q C2/15/2018 product function • ramp-up (soft starting) • samp-down (soft stop) • Soft Torque • adjustable current limitation • pump ramp down • intrinsic device protection • evaluation of thermistor motor protection and electronic motor overload protection) • evaluation of thermistor motor protection • peration greated value • of firmware update • removable terminal for control circuit • et al. 40 °C rated value • al. 60 °C rat | | |
| reference code according to IEC 81346-2 Q2/15/2018 Substance Prohibitance (Date) Q2/15/2018 product function Pes • ramp-up (soft starting) Yes • Soft Torque Yes • adjustable current limitation Yes • pump ramp down Yes • intrinsic device protection Yes, Full motor protection (thermistor motor protection and electronic motor overload protection) • evaluation of thermistor motor protection Yes, Full motor protection (thermistor motor protection and electronic motor overload protection) • evaluation of thermistor motor protection Yes, Full motor protection (thermistor motor protection and electronic motor overload protection) • evaluation of thermistor motor protection Yes, Full motor protection (thermistor motor protection and electronic motor overload protection) • evaluation of thermistor motor protection Yes Full motor protection (thermistor motor protection and electronic motor overload protection) • evaluation of thermistor motor protection Yes Per PC Flore Klixon / Thermoclick • emotor esest Yes yes put | | |
| Substance Prohibitance (Date) Product function Feature Fea | | |
| product function • ramp-down (soft stop) • Soft Torque • adjustable current limitation • pump ramp down • Intrinsic device protection • motor overload protection • evaluation of thermistor motor protection • motor everload protection) | - | |
| • ramp-up (soft starting) • ramp-down (soft stop) • Soft Torque • adjustable current limitation • pump ramp down • motor overload protection • motor overload protection • evaluation of thermistor motor protection • inside-delta circuit • siside-delta circuit • auto-RESET • manual RESET • manual RESET • manual RESET • monor eset • communication function • operating measured value display • resi software parameterizable • via software parameterizable • via software parameterizable • removable terminal for control circuit • firmware update • removable terminal for control circuit • torque control • at 40 °C rated value • at 60 °C rated value • at inside-delta circuit rate | | 02/15/2018 |
| Framp-down (soft stop) Soft Torque | • | Voc |
| Soft Torque adjustable current limitation pump ramp down intrinsic device protection when the motor overload protection evaluation of thermistor motor protection inside-delta circuit auto-RESET auto-RESET emanual RESET emanual RESET emanual RESET emanual reset ecommunication function operating measured value display eight of software parameterizable via software parameterizable eight original for control circuit errowable terminal for control | | |
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| Intrinsic device protection motor overload protection motor overload protection evaluation of thermistor motor protection inside-defla circuit auto-RESET remour reset remounciation function operating measured value display ves; Only in conjunction with special accessories ves; only in conjunction with | • | |
| * motor overload protection * evaluation of thermistor motor protection * evaluation of thermistor motor protection * inside-delta circuit * auto-RESET * yes * auto-RESET * manual RESET * remote reset * communication function * operating measured value display * error logbook * via software parameterizable * via software parameterizable * via software configurable * removable terminal for control circuit * torque control * alado go uptut Power Electronics operational current * at 40 °C rated value * at 60 °C rated value * | | |
| evaluation of thermistor motor protection inside-delta circuit auto-RESET Temote reset communication function operating measured value display via software parameterizable via software parameterizable via software configurable removable terminal for control circuit otorque control otarioal current otatioal current otatioal current otatioal current at inside-delta circuit operating voltage or lative positive tolerance of the operating voltage of relative positive tolerance of the operating voltage of relative positive tolerance of the operating voltage relative positive tolerance of the operating voltage ar inside-delta circuit relative positive tolerance of the operating voltage ar inside-delta circuit relative positive tolerance of the operating voltage ar inside-delta circuit respective for called value and process of the operating voltage are inside-delta circuit relative positive tolerance of the operating voltage are inside-delta circuit relative positive tolerance of the operating voltage are inside-delta circuit relative positive tolerance of the operating voltage are inside-delta circuit relative positive tolerance of the operating voltage are inside-delta circuit relative positive tolerance of the operating voltage are inside-delta circuit relative positive tolerance of the operating voltage are inside-delta circuit. | • | |
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| inside-delta circuit auto-RESET auto-RESET yes manual RESET remote reset communication function operating measured value display errol logbook via software parameterizable via software configurable removable terminal for control circuit removable terminal for control circuit ves relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage | evaluation of thermistor motor protection | |
| e auto-RESET e manual RESET remote reset remote reset communication function operating measured value display error logbook via software parameterizable via software configurable remover update removable terminal for control circuit torque control analog output No Power Electronics Operational current at 15 °C rated value at 15 °C rated valu | · | |
| remote reset remote reset remote reset remote sories reset removable terminal remote removable terminal for control circuit retered value reter | | |
| remote reset communication function operating measured value display error logbook via software parameterizable via software configurable via software configurable via software update removable terminal for control circuit analog output vorer Electronics Operating current at 40 °C rated value at 60 °C rated value | | |
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| error logbook via software parameterizable via software configurable PROFlenergy PROFlenergy Yes; in connection with the PROFINET Standard communication module firmware update removable terminal for control circuit ves removable terminal for control circuit volume analog output No Power Electronics Operational current at 40 °C rated value at 60 °C rated val | | |
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| • removable terminal for control circuit • torque control • analog output No Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value • at 40 °C rated value • at 60 °C rated value • at 60 °C rated value • at 60 °C rated value • at 50 °C rated value • at 50 °C rated value • at 50 °C rated value • at 60 °C rated value • at inside-delta circuit rated value • at inside-delta circuit rated value • at inside-delta circuit rated value relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit | _ | |
| torque control analog output No Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 40 °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 relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit 10 % | • firmware update | Yes |
| analog output No Power Electronics operational current at 40 °C rated value | removable terminal for control circuit | Yes |
| power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value operational current at inside-delta circuit • at 40 °C rated value operational current at inside-delta circuit • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value • at 60 °C rated value • at 60 °C rated value • at inside-delta circuit rated value • rated value • at inside-delta circuit rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit | torque control | No |
| operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value 55 A operational current at inside-delta circuit • at 40 °C rated value 109 A • at 50 °C rated value 96 A • at 60 °C rated value 87.5 A operating voltage • rated value • at inside-delta circuit rated value 200 600 V relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit 10 % | analog output | No |
| at 40 °C rated value at 50 °C rated value at 60 °C rated value 51 A Operational current at inside-delta circuit at 40 °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 200 600 V relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit 10 % | Power Electronics | |
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| operational current at inside-delta circuit • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value • rated value • rated value • rated value • at inside-delta circuit rated value relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit 10 % 10 % | • at 50 °C rated value | 56 A |
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| at 60 °C rated value operating voltage rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit 10 % 10 % | • at 40 °C rated value | 109 A |
| operating voltage • rated value | • at 50 °C rated value | 96 A |
| rated value at inside-delta circuit rated value 200 600 V relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit 10 % | at 60 °C rated value | 87.5 A |
| at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit 10 % 10 % | operating voltage | |
| relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit 10 % 10 % | rated value | 200 600 V |
| relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit 10 % 10 % | at inside-delta circuit rated value | 200 600 V |
| relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit 10 % | relative negative tolerance of the operating voltage | -15 % |
| relative positive tolerance of the operating voltage at inside-delta circuit 10 % | | 10 % |
| inside-delta circuit | | -15 % |
| operating power for 3-phase motors | | 10 % |
| | operating power for 3-phase motors | |

| a at 220 V at 40 °C rotad value | 10 E I/M |
|---|--|
| • at 230 V at 40 °C rated value | 18.5 kW |
| at 230 V at inside-delta circuit at 40 °C rated value | 30 kW |
| • at 400 V at 40 °C rated value | 30 kW |
| • at 400 V at inside-delta circuit at 40 °C rated value | 55 kW |
| • at 500 V at 40 °C rated value | 37 kW |
| at 500 V at inside-delta circuit at 40 °C rated value | 55 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 adjustable motor current | 10 % |
| at rotary coding switch on switch position 1 | 25.5 A |
| at rotary coding switch on switch position 2 | 28 A |
| at rotary coding switch on switch position 3 at rotary coding switch on switch position 3 | 30.5 A |
| at rotary coding switch on switch position 3 at rotary coding switch on switch position 4 | 33 A |
| , , | 35.5 A |
| at rotary coding switch on switch position 5 at rotary coding switch on switch position 6 | 38 A |
| at rotary coding switch on switch position 6 at rotary coding switch on switch position 7 | 40.5 A |
| at rotary coding switch on switch position / at rotary coding switch on switch position 8 | 40.5 A 43 A |
| at rotary coding switch on switch position 8 at rotary coding switch on switch position 9 | 45.5 A |
| at rotary coding switch on switch position 9 at rotary coding switch on switch position 10 | 48 A |
| at rotary coding switch on switch position 10 at rotary coding switch on switch position 11 | 50.5 A |
| at rotary coding switch on switch position 11 at rotary coding switch on switch position 12 | 50.5 A 53 A |
| at rotary coding switch on switch position 12 at rotary coding switch on switch position 13 | 55.5 A |
| at rotary coding switch on switch position 13 at rotary coding switch on switch position 14 | 58 A |
| at rotary coding switch on switch position 14 at rotary coding switch on switch position 15 | 60.5 A |
| at rotary coding switch on switch position 16 at rotary coding switch on switch position 16 | 63 A |
| minimum | 25.5 A |
| adjustable motor current | 20.0 A |
| for inside-delta circuit at rotary coding switch on | 44.2 A |
| switch position 1 | |
| for inside-delta circuit at rotary coding switch on switch position 2 | 48.5 A |
| for inside-delta circuit at rotary coding switch on switch position 3 | 52.8 A |
| for inside-delta circuit at rotary coding switch on switch position 4 | 57.2 A |
| for inside-delta circuit at rotary coding switch on switch position 5 | 61.5 A |
| for inside-delta circuit at rotary coding switch on switch position 6 | 65.8 A |
| for inside-delta circuit at rotary coding switch on switch position 7 | 70.1 A |
| for inside-delta circuit at rotary coding switch on switch position 8 for inside delta circuit at rotary coding switch on | 74.5 A |
| for inside-delta circuit at rotary coding switch on switch position 9 for inside delta circuit at rotary coding switch on | 78.8 A 83.1 A |
| for inside-delta circuit at rotary coding switch on switch position 10 for inside-delta circuit at rotary coding switch on | 83.1 A 87.5 A |
| switch position 11 for inside-delta circuit at rotary coding switch on | 91.8 A |
| switch position 12 • for inside-delta circuit at rotary coding switch on | 96.1 A |
| switch position 13 • for inside-delta circuit at rotary coding switch on | 100 A |
| switch position 14 • for inside-delta circuit at rotary coding switch on | 105 A |
| switch position 15 | 109 A |
| for inside-delta circuit at rotary coding switch on switch position 16 at inside-delta circuit minimum | 44.2 A |
| at inside-delta circuit minimum minimum load [%] | 44.2 A 15 %; Relative to smallest settable le |
| | 10 /0, 1/GIALIVE (U SITIALIES) SELIADIE IE |
| power loss [W] for rated value of the current at AC | |

| at 40 °C after startup | 31 W |
|--|--|
| at 50 °C after startup | 29 W |
| at 60 °C after startup | 27 W |
| power loss [W] at AC at current limitation 350 % | |
| at 40 °C during startup | 882 W |
| at 50 °C during startup | 744 W |
| at 60 °C during startup | 659 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 voltage at AC at 50 Hz | -15 % |
| relative positive tolerance of the control supply | 10 % |
| voltage at AC at 50 Hz | |
| 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 | 75 mA |
| locked-rotor current at close of bypass contact maximum | 2.5 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 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 | +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface |
| fastening method | screw fixing |
| height | 306 mm |
| width | 185 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 | 5.6 kg |
| Connections/ Terminals | |
| type of electrical connection | |
| •• | |

| for main current circuit for control circuit width of connection bar maximum wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum | box terminal spring-loaded terminals 25 mm |
|---|---|
| width of connection bar maximum wire length for thermistor connection | |
| wire length for thermistor connection | |
| | |
| | 50 m |
| with conductor cross-section = 1.5 mm² maximum | 150 m |
| • with conductor cross-section = 2.5 mm² maximum | 250 m |
| type of connectable conductor cross-sections | |
| for main contacts for box terminal using the front clamping point solid | 1x (2.5 16 mm²) |
| for main contacts for box terminal using the front clamping point finely stranded with core end processing | 1x (2.5 50 mm²) |
| for main contacts for box terminal using the front clamping point stranded | 1x (10 70 mm²) |
| at AWG cables for main contacts for box terminal using the front clamping point | 1x (10 2/0) |
| for main contacts for box terminal using the back clamping point solid | 1x (2.5 16 mm²) |
| at AWG cables for main contacts for box terminal using the back clamping point | 1x (10 2/0) |
| for main contacts for box terminal using both clamping points solid | 2x (2.5 16 mm²) |
| for main contacts for box terminal using both clamping points finely stranded with core end processing | 2x (2.5 35 mm²) |
| for main contacts for box terminal using both clamping points stranded | 2x (6 16 mm²), 2x (10 50 mm²) |
| for main contacts for box terminal using the back clamping point finely stranded with core end processing | 1x (2.5 50 mm²) |
| for main contacts for box terminal using the back clamping point stranded | 1x (10 70 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 | |
| between soft starter and motor maximum | 800 m |
| at the digital inputs at AC maximum | 100 m |
| tightening torque | |
| for main contacts with screw-type terminals | 4.5 6 N·m |
| for auxiliary and control contacts with screw-type terminals | 0.8 1.2 N·m |
| tightening torque [lbf-in] | |
| for main contacts with screw-type terminals | 40 53 lbf·in |
| for auxiliary and control contacts with screw-type terminals | 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 |
| during storage and transport | -40 +80 °C |
| environmental category | |
| during operation according 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 according to IEC 60721 | 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 |
| during transport according 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 | |
|--|---|
| communication module is supported • PROFINET standard | Yes |
| EtherNet/IP | Yes |
| Modbus RTU | Yes |
| Modbus TCP | |
| PROFIBUS | Yes |
| | Yes |
| UL/CSA ratings | |
| manufacturer's article number | |
| of circuit breaker | O' |
| usable for Standard Faults at 460/480 V according to UL | Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 10 kA |
| usable for High Faults at 460/480 V according to UL | Siemens type: 3VA51, max. 125 A; lq max = 65 kA |
| usable for Standard Faults at 460/480 V at inside-delta circuit according to UL | Siemens type: 3VA51, max. 125 A; lq = 10 kA |
| usable for High Faults at 460/480 V at inside- delta circuit according to UL | Siemens type: 3VA51, max. 125 A; lq max = 65 kA |
| usable for Standard Faults at 575/600 V according to UL | Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 10 kA |
| usable for Standard Faults at 575/600 V at inside-delta circuit according to UL | Siemens type: 3VA51, max. 125 A; Iq = 10 kA |
| • of the fuse | |
| usable for Standard Faults up to 575/600 V according to UL | Type: Class RK5 / K5, max. 200 A; Iq = 10 kA |
| usable for High Faults up to 575/600 V according to UL | Type: Class J / L, max. 225 A; Iq = 100 kA |
| usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL | Type: Class RK5 / K5, max. 200 A; Iq = 10 kA |
| usable for High Faults at inside-delta circuit up to 575/600 V according to UL | Type: Class J / L, max. 225 A; Iq = 100 kA |
| operating power [hp] for 3-phase motors | |
| at 200/208 V at 50 °C rated value | 15 hp |
| at 220/230 V at 50 °C rated value | 20 hp |
| at 460/480 V at 50 °C rated value | 40 hp |
| at 575/600 V at 50 °C rated value | 50 hp |
| at 200/208 V at inside-delta circuit at 50 °C rated value | 30 hp |
| at 220/230 V at inside-delta circuit at 50 °C rated value | 30 hp |
| at 460/480 V at inside-delta circuit at 50 °C rated value | 75 hp |
| at 575/600 V at inside-delta circuit at 50 °C rated value | 75 hp |
| contact rating of auxiliary contacts according to UL | R300-B300 |
| Safety related data | |
| protection class IP on the front according to IEC 60529 | IP00; IP20 with cover |
| touch protection on the front according to IEC 60529 | finger-safe, for vertical contact from the front with cover |
| electromagnetic compatibility | in accordance with IEC 60947-4-2 |
| Certificates/ approvals | |
| General Product Approval | EMC |



Confirmation









Declaration of Conformity Test Certificates Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

other





Confirmation

Further information

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=3RW5225-3TC15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5225-3TC15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5225-3TC15

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5225-3TC15&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RW5225-3TC15/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5225-3TC15&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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

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