SIEMENS

Data sheet

3RW5225-1TC15



SIRIUS soft starter 200-600 V 63 A, 110-250 V AC Screw terminals Thermistor input

SIRIUS
Hybrid switching devices
Soft starter
3RW52
<u>3RW5980-0HS00</u>
<u>3RW5980-0HF00</u>
<u>3RW5980-0CS00</u>
<u>3RW5980-0CP00</u>
<u>3RW5980-0CT00</u>
<u>3RW5980-0CR00</u>
<u>3RW5980-0CE00</u>
3VA2163-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
3VA2163-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10
3VA2110-7MN32-0AA0: Type of coordination 1, Iq = 65 kA, CLASS 10
3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10
3NA3830-6; Type of coordination 1, Iq = 65 kA
<u>3NA3830-6; Type of coordination 1, Iq = 65 kA</u>
<u>3NE1022-0: Type of coordination 2. lq = 65 kA</u>
<u>3NE8024-1; Type of coordination 2, Iq = 65 kA</u>
30 100 %
50 50 %
0 20 s
130 700 %
Yes
Yes
Yes
Yes
100

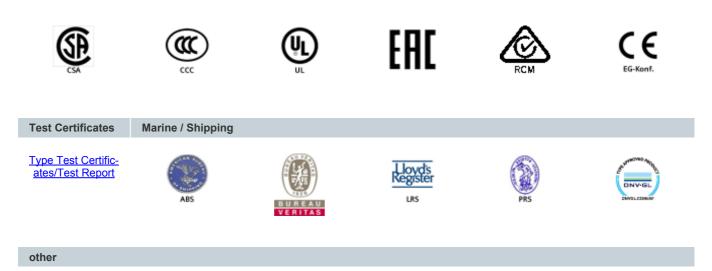
The class CLASS 10A (default) / 10E / 20E; soc: to IEC 60947.4-2 buffering line in the event of power failure 100 ms • for main current circuit 100 ms insultation voltage rade value 600 V degree of pollution 3. acc: to IEC 60947.4-2 impuise voltage rade value 61V surge voltage rade value 61V bolk rade rade value 61V surge voltage rade value 61V impuise voltage rade value 61V surge voltage rade value 61V impuise voltage rade value 61V impuise voltage rade value 61V subtance 61V voltage rade value 61V subtance 61V voltage rade value 61V subtance 61V voltage rade value 61V subtance (classicy voltage rade value 60V voltage rade value 61V voltage rade value 61V voltage rade value 61V voltage rade value 61V voltage rade value 71 m	number of controlled phases	3
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vibration resistance 15 mm to 6 Hz; 2g to 500 Hz utilization category acc. to IEC 60947-4-2 AC 53a Ference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 15.02.2018 00:00:00 product function Yes • amp-down (soft starting) Yes • daylustable current limitation Yes • adjustable current limitation Yes • upm pramp down Yes • intrinsic device protection Yes • motor overload protection Yes • motor overload protection Yes • inside-efficit acricut Yes • auto-RESET Yes • communication function Yes • communication function Yes • day advise configurable No • operating measured value display Yes • vis ofdware configurable No • vis ofdware configurable No • vis ofdware configurable Yes • operating measured value display Yes, in connection with special accessories • vis ofdware configurable No • vi		
utilization category acc. to IEC 6094-4-2 AC 53a reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 15.02.2018 00:00:00 product function Yes • ramp-up (soft starting) Yes • adjustable current limitation Yes • auto-RESET Yes		
reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 15.02.2018.00:00.00 oramp-up (soft starting) Yes • ramp-up (soft starting) Yes • aramp-down (soft stop) Yes • adjustable current limitation Yes • adjustable current limitation Yes • upup ramp down Yes • motor overload protection Yes; Type A PTC or Kilxon / Thermoclick • motor overload protection Yes; By turning off the control supply voltage • auto-RESET Yes • monunication function Yes; Only in conjunction with special accessories • communication function Yes; Only in conjunction with special accessories • auto-RESET Yes • error logbook Yes; Only in conjunction with special accessories • operating measured value display Yes; Only in conjunction with the PROFINET Standard communication module • irinware update Yes • vis oftware configurable Yes • irinware update Yes • firmware update Yes • forque control No • at 60 °C rated value <th></th> <th></th>		
Substance Prohibitance (Date) 15.02.2018 00:00:00 product function Yes • ramp-down (soft stop) Yes • soft forque Yes • adjustable current limitation Yes • adjustable current limitation Yes • intrinsic device protection Yes • intrinsic device protection Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) • rendor overload protection Yes; Type A PTC or Klixon / Thermoclick • inside-delta circuit Yes • inside-delta circuit Yes • inside-water data device protection Yes; Type A PTC or Klixon / Thermoclick • inside-water data device protection Yes; Type A PTC or Klixon / Thermoclick • inside-water data device protection Yes; Type A PTC or Klixon / Thermoclick • inside-water data device protection Yes; Type A PTC or Klixon / Thermoclick • inside-water data device protection Yes; Type A PTC or Klixon / Thermoclick • operating measured value display Yes; Type A PTC or Klixon / Thermoclick • via software configurable Yes; In conjunction with special accessories • via software parameterizable No • infinition data device introl		
product function Yes • ramp-up (soft starting) Yes • adjustable current limitation Yes • adjustable current limitation Yes • adjustable current limitation Yes • intrinsic device protection Yes • intrinsic device protection Yes • intor overload protection Yes • motor overload protection Yes • inside-delta circuit Yes • auto-RESET Yes • manual RESET Yes • remote reset Yes • communication function Yes • erand togood Yes • auto-RESET Yes • remote reset Yes • dia software parameterizable No • via software parameterizable No • via software configurable Yes • removable terminal for control circuit Yes • forque control No • analog output No • analog output Soft A • at 0° C rated value Sof A • at 0		
• ramp-up (soft starting) Yes • ramp-down (soft stop) Yes • soft Torque Yes • adjustable current limitation Yes • upmp ramp down Yes • intrinsic device protection Yes • intrinsic device protection Yes • motor overload 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; Type A PTC or Klixon / Thermoclick • inside-deta circuit Yes; Type A PTC or Klixon / Thermoclick • inside-deta circuit Yes; Type A PTC or Klixon / Thermoclick • inside-deta dircuit Yes; Type A PTC or Klixon / Thermoclick • inside-deta dircuit Yes; Type A PTC or Klixon / Thermoclick • inside-deta dircuit Yes; Type A PTC or Klixon / Thermoclick • inside-deta dircuit Yes; Type A PTC or Klixon / Thermoclick • ermoto rogbook Yes; Only in conjunction with special accessories • operating measured value display Yes; Only in conjunction with special accessories • via software configurable Yes • removable terminal for control circuit Yes • firmware update Yes • forque control No • at siog		
 ramp-down (soft stop) Yes Soft Torque Gott Torque Adjustable current limitation pump ramp down Yes adjustable current limitation Yes intrinsic device protection Yes intrinsic device protection Yes motor overload protection Yes motor overload protection Yes motor overload protection Yes intrinsic device protection Yes motor overload protection Yes auto-RESET Yes manual RESET Yes manual RESET Yes manual RESET Yes remoter totation Yes operating measured value display Yes; Only in conjunction with special accessories operating measured value display Yes; Only in conjunction with special accessories via software parameterizable No via software configurable Yes removable terminal for control circuit torque control analog output No Power Electronics Operational current at 60 °C rated value <l< th=""><th></th><th>Yes</th></l<>		Yes
 Soft Torque Soft Torque Yes adjustable current limitation Yes pump ramp down Yes intrinsic device protection Yes motor overload protection Yes Tumotor protection (thermistor motor protection and electronic motor overload protection) evaluation of thermistor motor protection Yes, Type A PTC or Klixon / Thermoclick inside-detta circuit auto-RESET remote reset operating measured value display Yes, Only in conjunction with special accessories error logbook Yes, in connection with the PROFINET Standard communication module via software parameterizable via software parameterizable via software ported to circuit firmware update removable terminal for control circuit vies operational current at 40 °C rated value at 60 °C rated value<th></th><th></th>		
 adjustable current limitation Yes pump ramp down Yes intrinsic device protection Yes, Full motor protection (thermistor motor protection and electronic motor overload protection) vevaluation of thermistor motor protection Yes, Type A PTC or Klixon / Thermoclick auto-RESET auto-RESET remote reset communication function Yes, Only in conjunction with special accessories error ofgbook via software parameterizable via software parameterizable via software configurable Yes, in connection with the PROFINET Standard communication module firmware update removable terminal for control circuit via to "C rated value at 40 °C rated value at 50 °C rated value of C rated value at 60 °C rated value of C rated value of O V at inside-delta cincuit rated value<		
• pump ramp downYes• 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• auto-RESETYes• manual RESETYes• remote resetYes; Dy turning off the control supply voltage• communication functionYes• error logbookYes; Only in conjunction with special accessories• error logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software parameterizableYes; in connection with the PROFINET Standard communication module• firmware updateYes• removable terminal for control circuitYes• torque controlNo• at 40 °C rated value63 A• at 50 °C rated value51 A• at 60 °C rated value96 A• at		
• 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-detta circuit Yes • auto-RESET Yes • manual RESET Yes • remote reset Yes; Dy turning off the control supply voltage • communication function Yes; Only in conjunction with special accessories • via software parameterizable No • via software configurable Yes • PROFienergy Yes • infimware update Yes • removable terminal for control circuit Yes • analog output No • at 40 °C rated value 63 A • at 50 °C rated value 66 A • at 60 °C rated value 96 A • at 60 °C rated valu	-	
• 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; Only in conjunction with special accessories • error logbook Yes; Only in conjunction with special accessories • via software parameterizable No • via software configurable Yes; in connection with the PROFINET Standard communication module • translog output Yes • removable terminal for control circuit Yes • torque control Yes • analog output No Power Electronics 56 A • at 60 °C rated value 56 A • at 60 °C rated value 96 A • at 60 °C rated value 86 A • at 60 °C rated value 96 A • at 60 °C rated value 96 A • at 60 °C rated value 96 A • at 60		
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• 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• via software parameterizableNo• via software configurableYes• via software configurableYes• PROFlenergyYes; in connection with the PROFINET Standard communication module• firmware updateYes• removable terminal for control circuitYes• torque controlNo• analog outputNoPower ElectronicsYesoperational current63 A• at 40 °C rated value63 A• at 50 °C rated value56 A• at 60 °C rated value51 Aoperational current at inside-delta circuit96 A• at 60 °C rated value96 A <tr <tr="">• at 60 °</tr>	● 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 parameterizableNovia software configurableYes;• PROFlenergyYes; in connection with the PROFINET Standard communication module• firmware updateYes• removable terminal for control circuitYes• forque controlNo• analog outputNoPower ElectronicsYesoperational current63 A• at 40 °C rated value56 A• at 50 °C rated value51 Aoperational current at inside-delta circuit109 A• at 60 °C rated value87.5 Aoperating voltage96 A• at 60 °C rated value91.6 NO• at 60 °C rated value109 A• at 60 °C rated value100 V• at 60 °C rated value100 V• at 60 °C rated value100 V• at 60 °C rated value10 %	manual RESET	Yes
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error logbookYes; Only in conjunction with special accessoriesvia software parameterizableNovia software configurableYeserror logbookYes; in connection with the PROFINET Standard communication moduleerror logbookYes; in connection with the PROFINET Standard communication moduleerror logbookYeserror logbookYeserror logbookYeserror logbookYeserror logbookNoerror log outputNoPower ElectronicsNooperational current • at 40 °C rated value63 Aet at 60 °C rated value56 Aet at 60 °C rated value51 Aoperational current at inside-delta circuit109 A• at 40 °C rated value96 Aet 60 °C rated value87.5 Aoperating voltage200 600 V• at 60 °C rated value200 600 Vet at volterance of the operating voltage-15 %relative negative tolerance of the operating voltage10 %	 communication function 	Yes
via software parameterizableNovia software configurableYes• PROFlenergyYes; in connection with the PROFINET Standard communication module• firmware updateYes• removable terminal for control circuitYes• torque controlNo• analog outputNoPower ElectronicsNooperational current63 A• at 40 °C rated value56 A• at 60 °C rated value51 Aoperational current at inside-delta circuit109 A• at 60 °C rated value87.5 Aoperating voltage96 A• at 60 °C rated value87.5 Aoperating voltage200 600 V• at einside-delta circuit relative negative tolerance of the operating voltage115 %	 operating measured value display 	Yes; Only in conjunction with special accessories
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• removable terminal for control circuitYes• torque controlNo• analog outputNoPower ElectronicsNooperational current63 A• at 40 °C rated value56 A• at 60 °C rated value51 Aoperational current at inside-delta circuit109 A• at 40 °C rated value96 A• at 60 °C rated value90 A• at 60 °C rated value200 600 V• at 60 °C rated value87.5 A• at 60 °C rated value90 A• at 60 °C rated value96 A• at 60 °C rated value90 A• at 60 °C rated value91 A• at 60 °C rated value90 A• at 70 °C rated value90 A• 10 °C rated value90 A• 10 °C rated value90 A <td< th=""><th>PROFlenergy</th><th>,</th></td<>	PROFlenergy	,
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• at 40 °C rated value63 A• at 50 °C rated value56 A• at 60 °C rated value51 Aoperational current at inside-delta circuit109 A• at 40 °C rated value96 A• at 50 °C rated value87.5 Aoperating voltage200 600 V• at inside-delta circuit rated value200 600 V• at inside-delta circuit rated value11 %• at inside-delta circuit rated value200 600 V• at inside-delta circuit rated value200 600 V• at inside-delta circuit rated value15 %relative negative tolerance of the operating voltage10 %relative negative tolerance of the operating voltage15 %	Power Electronics	
 at 50 °C rated value at 60 °C rated value 56 A at 60 °C rated value 51 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 97.5 A operating voltage rated value 200 600 V at inside-delta circuit rated value 200 600 V at inside-delta circuit rated value 200 600 V at inside-delta circuit rated value 10 % relative negative tolerance of the operating voltage at 15 % 	operational current	
• at 60 °C rated value51 Aoperational current at inside-delta circuit-• at 40 °C rated value109 A• at 50 °C rated value96 A• at 60 °C rated value87.5 Aoperating voltage-• rated value200 600 V• at inside-delta circuit rated value200 600 V• at inside-delta circuit rated value115 %relative negative tolerance of the operating voltage at-15 %	• at 40 °C rated value	63 A
operational current at inside-delta circuit109 A• at 40 °C rated value109 A• at 50 °C rated value96 A• at 60 °C rated value87.5 Aoperating voltage200 600 V• rated value200 600 V• at inside-delta circuit rated value200 600 V• relative negative tolerance of the operating voltage-15 %relative negative tolerance of the operating voltage at-15 %	• at 50 °C rated value	56 A
• at 40 °C rated value109 A• at 50 °C rated value96 A• at 60 °C rated value87.5 Aoperating voltage200 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-15 %	• at 60 °C rated value	51 A
• at 40 °C rated value109 A• at 50 °C rated value96 A• at 60 °C rated value87.5 Aoperating voltage200 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-15 %	operational current at inside-delta circuit	
• at 60 °C rated value87.5 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-15 %	• at 40 °C rated value	109 A
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 10 % relative negative tolerance of the operating voltage at -15 %	• at 50 °C rated value	96 A
 rated value at inside-delta circuit rated value 200 600 V 200 600 V relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage 10 % relative negative tolerance of the operating voltage at -15 % 	• at 60 °C rated value	87.5 A
 rated value at inside-delta circuit rated value 200 600 V 200 600 V relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage 10 % relative negative tolerance of the operating voltage at -15 % 	operating voltage	
• at inside-delta circuit rated value200 600 Vrelative negative tolerance of the operating voltage-15 %relative negative tolerance of the operating voltage at-15 %		200 600 V
relative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage10 %relative negative tolerance of the operating voltage at-15 %	 at inside-delta circuit rated value 	
relative positive tolerance of the operating voltage 10 % relative negative tolerance of the operating voltage at -15 %		-
relative negative tolerance of the operating voltage at -15 %		10 %
		-15 %

relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
 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	10 %
adjustable motor current	
 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 	30.5 A
 at rotary coding switch on switch position 4 	33 A
 at rotary coding switch on switch position 5 	35.5 A
• at rotary coding switch on switch position 6	38 A
 at rotary coding switch on switch position 7 	40.5 A
 at rotary coding switch on switch position 8 	43 A
 at rotary coding switch on switch position 9 	45.5 A
 at rotary coding switch on switch position 10 	48 A
 at rotary coding switch on switch position 11 	50.5 A
 at rotary coding switch on switch position 12 	53 A
• at rotary coding switch on switch position 13	55.5 A
 at rotary coding switch on switch position 14 	58 A
 at rotary coding switch on switch position 15 	60.5 A
 at rotary coding switch on switch position 16 	63 A
minimum	25.5 A
adjustable motor current	20.0 M
 for inside-delta circuit at rotary coding switch on switch position 1 	44.2 A
 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 	74.5 A
 for inside-delta circuit at rotary coding switch on switch position 9 	78.8 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
 for inside-delta circuit at rotary coding switch on switch position 11 for inside-delta circuit at rotary coding switch on 	91.8 A
 for inside-delta circuit at rotary coding switch on switch position 12 for inside-delta circuit at rotary coding switch on 	96.1 A
 for inside-delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	100 A
 for inside-delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	105 A
switch position 15	

 for inside-delta circuit at rotary coding switch on 	109 A		
switch position 16			
at inside-delta circuit minimum	44.2 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	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 %			
	000 14/		
• 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	-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	-15 %		
voltage at AC at 60 Hz			
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	-10 %		
voltage frequency relative positive tolerance of the control supply	10 %		
voltage frequency			
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 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	+/- 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		
· · · · · · · · · · · · · · · · · · ·	200 mm		
required spacing with side-by-side mountingforwards	10 mm		

backwards	0 mm
	100 mm
 upwards downwards 	75 mm
at the side	5 mm
weight without packaging	5.6 kg
Connections/ Terminals	5.6 Kg
type of electrical connection	
• for main current circuit	box terminal
for control circuit	screw-type terminals
width of connection bar maximum	25 mm
wire length for thermistor connection	
• with conductor cross-section = 0.5 mm ² maximum	50 m
• with conductor cross-section = 1.5 mm ² maximum	150 m
• with conductor cross-section = 2.5 mm ² 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 mm ²)
• 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 mm ²)
 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 	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
 for control circuit finely stranded with core end processing 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
 at AWG cables for control circuit solid 	1x (20 12), 2x (20 14)
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

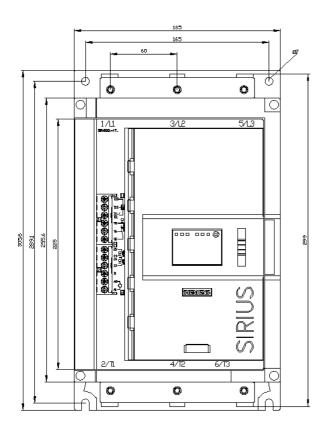
environmental category			
during operation acc. to IEC 60721	3K6 (no ice formation, only c	occasional condensation	n), 3C3 (no salt
	mist), 3S2 (sand must not ge		
• during storage acc. to IEC 60721	1K6 (only occasional conder not get inside the devices), 1		ist), 1S2 (sand must
 during transport acc. to IEC 60721 	2K2, 2C1, 2S1, 2M2 (max. fa	all height 0.3 m)	
EMC emitted interference	acc. to IEC 60947-4-2: Class	s 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 	Siemens type: 3RV2742, ma	ax. 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, ma	ax. 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; lq = 10 kA	
• of the fuse			
 — usable for Standard Faults up to 575/600 V according to UL 	Type: Class RK5 / K5, max.		
— usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 225		
 usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class RK5 / K5, max.		
 — usable for High Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 225	A; lq = 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 acc. to IEC 60529	IP00; IP20 with cover		
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front with cover		
electromagnetic compatibility	in accordance with IEC 6094	17-4-2	
Certificates/ approvals			
General Product Approval		EMC	Declaration of Conformity

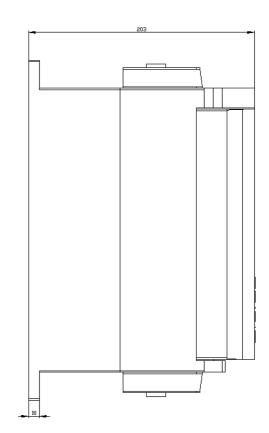


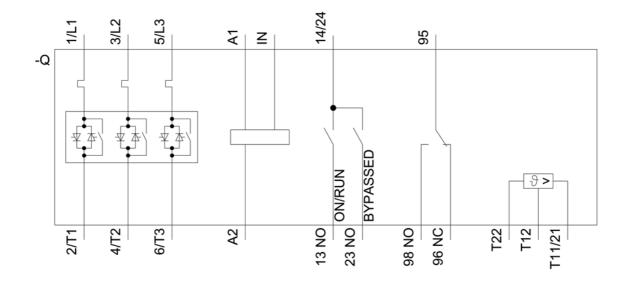
Confirmation

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=3RW5225-1TC15	
Cax online generator	
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5225-1TC15	
Service&Support (Manuals, Certificates, Characteristics, FAQs,)	
https://support.industry.siemens.com/cs/ww/en/ps/3RW5225-1TC15	
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)	
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5225-1TC15⟨=en	
Characteristic: Tripping characteristics, I ² t, Let-through current	
https://support.industry.siemens.com/cs/ww/en/ps/3RW5225-1TC15/char	
Characteristic: Installation altitude	
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5225-1TC15&objecttype=14&gridview=view1	
Simulation Tool for Soft Starters (STS)	

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







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