SIEMENS



Data sheet 3RW5075-2TB14

SIRIUS



SIRIUS soft starter 200-480 V 370 A, 110-250 V AC Spring-loaded terminals Thermistor input

Figure similar

product brand name

product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW50
manufacturer's article number	
 of standard HMI module usable 	3RW5980-0HS01
 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 	3VA2580-6HN32-0AA0; Type of assignment 1, Iq = 65 kA
 of circuit breaker usable at 500 V 	3VA2580-6HN32-0AA0; Type of assignment 1, Iq = 65 kA
 of the gG fuse usable up to 690 V 	2x3NA3365-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1 334-2; Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE3 336: Type of coordination 2, Iq = 65 kA
 of line contactor usable up to 480 V 	<u>3RT1075</u>
 of line contactor usable up to 690 V 	<u>3RT1075</u>
General technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 %; non-adjustable
start-up ramp time of soft starter	0 20 s
ramp-down time of soft starter	0 20 s
current limiting value [%] adjustable	130 700 %
accuracy class according to IEC 61557-12	5 %
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	2

Antin allana	01 4 00 404 / 405 /
trip class	CLASS 10A / 10E (20E, acc. to IEC 60947-4-2
buffering time in the event of power failure	400 mg
for main current circuit	100 ms 100 ms
• for control circuit	
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	000 1/
between main and auxiliary 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
utilization category according to IEC 60947-4-2	AC-53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	09/23/2019
product function	Voc
• ramp-up (soft starting)	Yes
• ramp-down (soft stop)	Yes
Soft Torque adjustable current limitation	Yes Yes
adjustable current limitation pump ramp down	Yes
pump ramp down intringia dovigo protection	Yes
intrinsic device protection meter everland protection	
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
auto-RESET	Yes
• manual RESET	Yes
• remote reset	Yes; By turning off the control supply voltage
communication function	Yes
operating measured value display	Yes; Only in conjunction with special accessories
error logbook via poffugera proposatarinable	Yes; Only in conjunction with special accessories
via software parameterizable	No Yes
via software configurable PROFlement	Yes Yes: in connection with the PROFINET Standard communication
PROFlenergy	module
voltage ramp tergue central	Yes
torque control applica output	No No
analog output	No
Power Electronics	
operational current	070.4
• at 40 °C rated value	370 A
at 50 °C rated value	328 A
at 60 °C rated value	300 A
operating voltage	200 400 V
• rated value	200 480 V
relative negative tolerance of the operating voltage	-15 % -10 %
relative positive tolerance of the operating voltage	10 %
operating power for 3-phase motors • at 230 V at 40 °C rated value	110 kW
at 400 V at 40 °C rated value at 400 V at 40 °C rated value	110 kW 200 kW
	50 Hz
Operating frequency 1 rated value Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative negative tolerance of the operating frequency	10 %
adjustable motor current	10 /0
at rotary coding switch on switch position 1	160 A
	174 A
 at rotary coding switch on switch position? 	
 at rotary coding switch on switch position 2 at rotary coding switch on switch position 3 	188 A

 at rotary coding switch on switch position 4 	202 A
 at rotary coding switch on switch position 5 	216 A 230 A Dientudong
 at rotary coding switch on switch position 6 	230 A
 at rotary coding switch on switch position 7 	244 A
 at rotary coding switch on switch position 8 	258 A
 at rotary coding switch on switch position 9 	272 A
 at rotary coding switch on switch position 10 	286 A
 at rotary coding switch on switch position 11 	300 A
 at rotary coding switch on switch position 12 	314 A
 at rotary coding switch on switch position 13 	328 A
 at rotary coding switch on switch position 14 	342 A
 at rotary coding switch on switch position 15 	356 A
 at rotary coding switch on switch position 16 	370 A
• minimum	160 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	36 W
at 50 °C after startup	29 W
at 60 °C after startup	24 W
power loss [W] at AC at current limitation 350 %	
at 40 °C during startup	3 726 W
at 50 °C during startup	3 124 W
at 60 °C during startup	2 748 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	7 11 5
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 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	105 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 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 DO-13 at 24 V rated value mounting position mounting position surface **- 22.5** tillab. surfac		
mounting position with vertical mounts surface 4-2 26 titlate surface 5-2 26 titlate surface 4-2 26 titlate surfa	at DC-13 at 24 V rated value	1A
surface 91- 22.5 'Utilità 100 mm 230 mm 23	Installation/ mounting/ dimensions	●●■111101111111111111111111111111111111
height width 230 mm depth 150 mm depth 282 mm required spacing with side by-side mounting 282 mm • Convarids 10 mm • Lockwards 100 mm • Convarids 75 mm • Convarids 75 mm • Convarids 73 kg • Connections Tremails 5 mm type of electrical connection 6 mm • For main contect for cruet 5 mm • For control circuit 5 mm • For main contect for connection 5 mm • With conductor cross-section = 1.5 mm² maximum 5 mm; with connection cover 'SRT1966-4EA1 maximum length 45 mm • With conductor cross-section = 1.5 mm² maximum 50 m • With conductor cross-section = 1.5 mm² maximum 50 m • With conductor cross-section = 1.5 mm² maximum 50 m • With conductor cross-section = 1.5 mm² maximum 50 m • Or main contacts for box terminal using the front clamping point finely stranded without cross end processing 50 m • Or main contacts for box terminal using the front clamping point stranded 10 mm • Or main contacts for box termi	mounting position	with vertical mounting ce +/- 30° rotatable, with vertical mounting surface +/- 22.5° tiltal he front and back
with dopth certain spacing with side-by-side mounting forwards	fastening method	screw fixing
required spacing with side-by-side mounting • forwards • backwards • ownwards • ownwards • of man contection between the maximum • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 0.5 mm² maximum • with conductor cross-sections • for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point signaled • for main contacts for box terminal using the font clamping point signaled • for main contacts for box terminal using the font clamping point signaled • for main contacts for box terminal using the font clamping point signaled • for main contacts for box terminal using the box clamping points • for main contacts for box terminal using the box clamping points • for main contacts for box terminal using the font clamping point signaled • for main contacts for box terminal using the box clamping points stranded • for main contacts for box terminal using the box clamping points stranded • for main contacts for box terminal using both clamping points stranded with core end processing • for main contacts for box terminal using the box clamping point stranded with core end processing • for main contacts for box terminal using the box clamping point finely stranded with core end processing • for main contacts for box terminal using the box clamping point finely stranded with core end processing • for main contacts for box terminal using the box clamping point finely stranded with core end processing • for main contacts for box terminal using the box clamping point finely stranded with core end processing • for main	height	230 mm
required spacing with side-by-side mounting • forwards • pawards • commands • commands • the side • downwards • at the side • at the side • forman contacts for box terminal using the front clamping point stranded • at AWG cables for main contacts for box terminal using the foot clamping point stranded • at AWG cables for main contacts for box terminal using the foot clamping points finely stranded with core end processing • for main contacts for box terminal using both clamping points finely stranded with core end processing • for main contacts for box terminal using both clamping points finely stranded with core end processing • for main contacts for box terminal using both clamping point sinel • at AWG cables for main contacts for box terminal using the foot clamping point sinel • at an activation of the contacts for box terminal using the foot clamping point sinel • at an activation of the clamping point of the clamping point solid • for main contacts for box terminal using both clamping points finely stranded with core end processing • for main contacts for box terminal using both clamping points finely stranded with core end processing • for main contacts for box terminal using both clamping point finely stranded with core end processing • for main contacts for box terminal using both clamping points finely stranded with core end processing • for main contacts for box terminal using both clamping points finely stranded with core end processing • for main contacts for box terminal using the back clamping point finely stranded with core end processing • for main contacts for box terminal using the back clamping point finely stranded with core end processing • for main contacts for box terminal using the back clamping point finely stranded with core end processing • for main contacts for box terminal using the back clamping point finely stranded with core end processing • for main contacts for box terminal using the back clamping point finely stranded with core end processing • for main contacts for box term	width	160 mm
• Ionavards • Dekewards • Dekewards • Ownwards • In the side • Ownwards • In the side •	depth	282 mm
• backwards • upwards • upwards • otherwards • otherw	required spacing with side-by-side mounting	
• Upwards • Otherwards • At the side • At the side • At the side • Thin weight without packaging 7.3 kg Connections Trainials Type of electrical connection • For main current circuit • For control circuit • For main current circuit • For control circuit • With conductor cross-section = 0.5 mm² maximum • With conductor cross-sections • Or main contacts for box terminal using the front clamping point finely stranded • Or main contacts for box terminal using the back clamping points solid • Or main contacts for box terminal using both clamping points finely stranded with core end processing • Or main contacts for box terminal using both clamping points finely stranded with core end processing • Or main contacts for box terminal using both clamping points finely stranded with core end processing • Or main contacts for box terminal using both clamping points finely stranded with core end proce	forwards	10 mm
* downwards * downwards * with side * weight without packaging * 7.3 kg **Connections/ Terminals** **Uppe of electrical connection * for main current circuit * for control circuit * of reaching for thermistor connection * with conductor cross-section = 0.5 mm² maximum * with conductor cross-section = 0.5 mm² maximum * with conductor cross-section = 0.5 mm² maximum * with conductor cross-sections * of main contacts for box terminal using the front clamping point finely stranded with core end processing * for main contacts for box terminal using the front clamping point stranded * at AWG cables for main contacts for box terminal using the front clamping point stranded * at AWG cables for main contacts for box terminal using the front clamping point stranded * of main contacts for box terminal using the back clamping point side * of main contacts for box terminal using the back clamping points finely stranded with core end processing * for main contacts for box terminal using both clamping points finely stranded with core end processing * for main contacts for box terminal using both clamping points finely stranded with core end processing * for main contacts for box terminal using both clamping points finely stranded with core end processing * for main contacts for box terminal using both clamping points finely stranded with core end processing * for main contacts for box terminal using both clamping points finely stranded with core end processing * for main contacts for box terminal using the back clamping point finely stranded with core end processing * for main contacts for box terminal using the back clamping point finely stranded with core end processing * for main contacts for box terminal using the back clamping point finely stranded with core end processing * for main contacts for box terminal using the back clamping point finely stranded with core end processing * for main contacts for box t	backwards	0 mm
weight without packaging 7.3 kg Connections / Terminals type of electrical connection • for main current circuit • for control circuit • for control circuit • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 0.5 mm² maximum • with conductor cross-sec	• upwards	100 mm
Weight without packaging 7.3 kg	downwards	75 mm
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type of electrical connection	weight without packaging	7.3 kg
type of electrical connection	Connections/ Terminals	
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• for main contacts for box terminal using the front clamping point finely stranded with core end processing • for main contacts for box terminal using the front clamping point finely stranded without core end processing • for main contacts for box terminal using the front clamping point granded • at AWG cables for main contacts for box terminal using the back clamping point solid • at AWG cables for main contacts for box terminal using the back clamping point solid • at AWG cables for main contacts for box terminal using both clamping points solid • for main contacts for box terminal using both clamping points finely stranded with core end processing • for main contacts for box terminal using both clamping points finely stranded with core end processing • for main contacts for box terminal using both clamping points finely stranded with core end processing • for main contacts for box terminal using both clamping points finely stranded with core end processing • for main contacts for box terminal using the back clamping point finely stranded with core end processing • for main contacts for box terminal using the back clamping point finely stranded without core end processing • for main contacts for box terminal using the back clamping point finely stranded without core end processing • for main contacts for box terminal using the back clamping point finely stranded without core end processing • for main contacts for box terminal using the back clamping point stranded type of connectable conductor cross-sections • at AWG cables for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections • at Question for the point stranded type of connectable conductor cross-sections	 for main contacts for box terminal using the front 	95 300 mm²
 for main contacts for box terminal using the front clamping point finely stranded without core end processing for main contacts for box terminal using the front clamping point stranded at AWG cables for main contacts for box terminal using the for main contacts for box terminal using the front clamping point solid at AWG cables for main contacts for box terminal using the back clamping point solid at AWG cables for main contacts for box terminal using the back clamping points solid for main contacts for box terminal using both clamping points finely stranded with core end processing for main contacts for box terminal using both clamping points finely stranded without core end processing for main contacts for box terminal using both clamping point sinely stranded without core end processing for main contacts for box terminal using the back clamping point finely stranded without core end processing for main contacts for box terminal using the back clamping point finely stranded without core end processing for main contacts for box terminal using the back clamping point finely stranded without core end processing for main contacts for box terminal using the back clamping point finely stranded without core end processing for main contacts for box terminal using the back clamping point finely stranded without core end processing for main contacts for box terminal using the back clamping point stranded for main contacts for box terminal using the back clamping point finely stranded without core end processing for main contacts for box terminal using the back clamping point finely stranded for main contacts for box terminal using the back clamping point finely stranded for main contacts for box terminal using the back clamping point finely stranded for main contacts for box terminal using the back clamping point finely stranded for main cont	 for main contacts for box terminal using the front clamping point finely stranded with core end 	70 240 mm²
 • for main contacts for box terminal using the front clamping point stranded • at AWG cables for main contacts for box terminal using the front clamping point solid • at AWG cables for main contacts for box terminal using the back clamping point solid • at AWG cables for main contacts for box terminal using the back clamping point solid • for main contacts for box terminal using both clamping points solid • for main contacts for box terminal using both clamping points finely stranded with core end processing • for main contacts for box terminal using both clamping points stranded • for main contacts for box terminal using both clamping points intelly stranded without core end processing • for main contacts for box terminal using both clamping points stranded • for main contacts for box terminal using the back clamping point finely stranded with core end processing • for main contacts for box terminal using the back clamping point finely stranded without core end processing • for main contacts for box terminal using the back clamping point stranded • for main contacts for box terminal using the back clamping point stranded • for main contacts for box terminal using the back clamping point stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections • to DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections 	for main contacts for box terminal using the front clamping point finely stranded without core end	70 240 mm²
using the front clamping point • for main contacts for box terminal using the back clamping point solid • at AWG cables for main contacts for box terminal using the back clamping point solid • for main contacts for box terminal using both clamping points solid • for main contacts for box terminal using both clamping points finely stranded with core end processing • for main contacts for box terminal using both clamping points finely stranded without core end processing • for main contacts for box terminal using both clamping points stranded • for main contacts for box terminal using both clamping point stranded • for main contacts for box terminal using both clamping point stranded • for main contacts for box terminal using the back clamping point finely stranded with core end processing • for main contacts for box terminal using the back clamping point finely stranded without core end processing • for main contacts for box terminal using the back clamping point finely stranded without core end processing • for main contacts for box terminal using the back clamping point stranded type of connectable conductor cross-sections • at AWG cables for main current circuit solid • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections • at OND cable lug for main contacts finely stranded type of connectable conductor cross-sections	for main contacts for box terminal using the front	95 300 mm²
clamping point solid at AWG cables for main contacts for box terminal using the back clamping point for main contacts for box terminal using both clamping points solid for main contacts for box terminal using both clamping points finely stranded with core end processing for main contacts for box terminal using both clamping points finely stranded without core end processing for main contacts for box terminal using both clamping points finely stranded without core end processing for main contacts for box terminal using both clamping point stranded for main contacts for box terminal using the back clamping point finely stranded with core end processing for main contacts for box terminal using the back clamping point finely stranded without core end processing for main contacts for box terminal using the back clamping point stranded for main contacts for box terminal using the back clamping point stranded type of connectable conductor cross-sections at AWG cables for main contacts stranded for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections	at AWG cables for main contacts for box terminal	3/0 600 kcmil
using the back clamping point • for main contacts for box terminal using both clamping points solid • for main contacts for box terminal using both clamping points finely stranded with core end processing • for main contacts for box terminal using both clamping points finely stranded without core end processing • for main contacts for box terminal using both clamping points finely stranded without core end processing • for main contacts for box terminal using both clamping points stranded • for main contacts for box terminal using the back clamping point finely stranded without core end processing • for main contacts for box terminal using the back clamping point finely stranded without core end processing • for main contacts for box terminal using the back clamping point finely stranded type of connectable conductor cross-sections • at AWG cables for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections		120 240 mm²
clamping points solid • for main contacts for box terminal using both clamping points finely stranded with core end processing • for main contacts for box terminal using both clamping points finely stranded without core end processing • for main contacts for box terminal using both clamping points stranded • for main contacts for box terminal using both clamping point stranded • for main contacts for box terminal using the back clamping point finely stranded with core end processing • for main contacts for box terminal using the back clamping point finely stranded without core end processing • for main contacts for box terminal using the back clamping point stranded • for main contacts for box terminal using the back clamping point stranded • for main contacts for box terminal using the back clamping point stranded • for main contacts for box terminal using the back clamping point stranded • for otonnectable conductor cross-sections • at AWG cables for main current circuit solid • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • type of connectable conductor cross-sections • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded		250 500 kcmil
clamping points finely stranded with core end processing • for main contacts for box terminal using both clamping points finely stranded without core end processing • for main contacts for box terminal using both clamping points stranded • for main contacts for box terminal using the back clamping point finely stranded with core end processing • for main contacts for box terminal using the back clamping point finely stranded without core end processing • for main contacts for box terminal using the back clamping point finely stranded without core end processing • for main contacts for box terminal using the back clamping point stranded • for main contacts for box terminal using the back clamping point stranded • for main contacts for box terminal using the back clamping point stranded • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded • for DIN cable lug for main contacts finely stranded	clamping points solid	
clamping points finely stranded without core end processing • for main contacts for box terminal using both clamping points stranded • for main contacts for box terminal using the back clamping point finely stranded with core end processing • for main contacts for box terminal using the back clamping point finely stranded without core end processing • for main contacts for box terminal using the back clamping point finely stranded without core end processing • for main contacts for box terminal using the back clamping point stranded • for Olin cable lug for main contacts stranded • for Dlin cable lug for main contacts finely stranded • for Dlin cable lug for main contacts finely stranded • for connectable conductor cross-sections	clamping points finely stranded with core end	min. 2x 50 mm², max. 2x 185 mm²
clamping points stranded • for main contacts for box terminal using the back clamping point finely stranded with core end processing • for main contacts for box terminal using the back clamping point finely stranded without core end processing • for main contacts for box terminal using the back clamping point stranded • for main contacts for box terminal using the back clamping point stranded • type of connectable conductor cross-sections • at AWG cables for main current circuit solid • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded • type of connectable conductor cross-sections • at CAWG cables for main contacts stranded • for DIN cable lug for main contacts stranded • for DIN cable conductor cross-sections	clamping points finely stranded without core end	min. 2x 50 mm², max. 2x 185 mm²
clamping point finely stranded with core end processing • for main contacts for box terminal using the back clamping point finely stranded without core end processing • for main contacts for box terminal using the back clamping point stranded type of connectable conductor cross-sections • at AWG cables for main current circuit solid • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections • at Cable Stranded 2/0 500 kcmil 50 240 mm² 70 240 mm² 70 240 mm²	for main contacts for box terminal using both	min. 2x 70 mm², max. 2x 240 mm²
clamping point finely stranded without core end processing • for main contacts for box terminal using the back clamping point stranded type of connectable conductor cross-sections • at AWG cables for main current circuit solid • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections type of connectable conductor cross-sections	clamping point finely stranded with core end	120 185 mm²
type of connectable conductor cross-sections • at AWG cables for main current circuit solid • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections 2/0 500 kcmil 50 240 mm² 70 240 mm²	clamping point finely stranded without core end	120 185 mm²
 at AWG cables for main current circuit solid for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections 2/0 500 kcmil 50 240 mm² 70 240 mm²		120 240 mm²
 for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections 	type of connectable conductor cross-sections	
• for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections 70 240 mm²	 at AWG cables for main current circuit solid 	2/0 500 kcmil
type of connectable conductor cross-sections	 for DIN cable lug for main contacts stranded 	50 240 mm²
	• for DIN cable lug for main contacts finely stranded	70 240 mm²
• for control circuit solid 2x (0.25 1.5 mm²)	type of connectable conductor cross-sections	
	 for control circuit solid 	2x (0.25 1.5 mm²)

for each size if firely should divide a second	0 (0.05 4.5
 for control circuit finely stranded with core end processing 	2x (0.25 1.5 mm ² 2x (24 16)
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	1 000 m
tightening torque	
for main contacts with screw-type terminals	14 24 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	124 210 lbf·in
 for auxiliary and control contacts with screw-type 	7 10.3 lbf·in
terminals	
Ambient conditions	5.000 II
installation altitude at height above sea level maximum	5 000 m; derating as of 1000 m, see Manual
ambient temperature • during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or
auring operation	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	
PROFINET standard	Yes
• EtherNet/IP	Yes
Modbus RTU Modbus TCB	Yes Yes
Modbus TCP PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
• of the fuse	
 usable for Standard Faults up to 575/600 V according to UL 	Type: Class L, max. 1200 A; Iq = 18 kA
 usable for High Faults up to 575/600 V according to UL 	
operating power [hp] for 3-phase motors	Type: Class L, max. 1200 A; Iq = 100 kA
• at 200/208 V at 50 °C rated value	100 hp
 at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value 	100 hp 125 hp
 at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value 	100 hp
 at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value Safety related data protection class IP on the front according to IEC	100 hp 125 hp
at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value Safety related data protection class IP on the front according to IEC 60529	100 hp 125 hp 250 hp IP00; IP20 with cover
at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value Safety related data protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529	100 hp 125 hp 250 hp
at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value Safety related data protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 ATEX	100 hp 125 hp 250 hp IP00; IP20 with cover
at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value Safety related data protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 ATEX certificate of suitability	100 hp 125 hp 250 hp IP00; IP20 with cover
at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value Safety related data protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 ATEX	100 hp 125 hp 250 hp IP00; IP20 with cover finger-safe, for vertical contact from the front with cover
at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value Safety related data protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 ATEX certificate of suitability ATEX	100 hp 125 hp 250 hp IP00; IP20 with cover finger-safe, for vertical contact from the front with cover
at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value Safety related data protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 ATEX certificate of suitability ATEX IECEX hardware fault tolerance according to IEC 61508	100 hp 125 hp 250 hp IP00; IP20 with cover finger-safe, for vertical contact from the front with cover Yes Yes
at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value Safety related data protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 ATEX certificate of suitability ATEX IECEX hardware fault tolerance according to IEC 61508 relating to ATEX PFDavg with low demand rate according to IEC 61508	100 hp 125 hp 250 hp IP00; IP20 with cover finger-safe, for vertical contact from the front with cover Yes Yes 0

T1 value for proof test interval or service life according to IEC 61508 relating to ATEX

3 у



Certificates/ approvals

General Product Approval



Confirmation









For use in hazardous locations Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







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=3RW5075-2TB14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5075-2TB14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5075-2TB14

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5075-2TB14&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

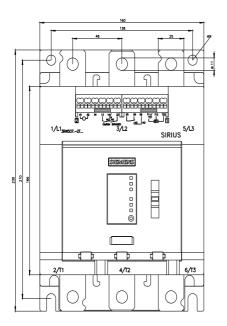
https://support.industry.siemens.com/cs/ww/en/ps/3RW5075-2TB14/char

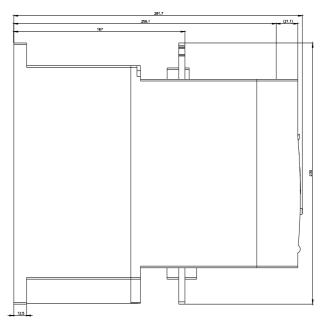
Characteristic: Installation altitude

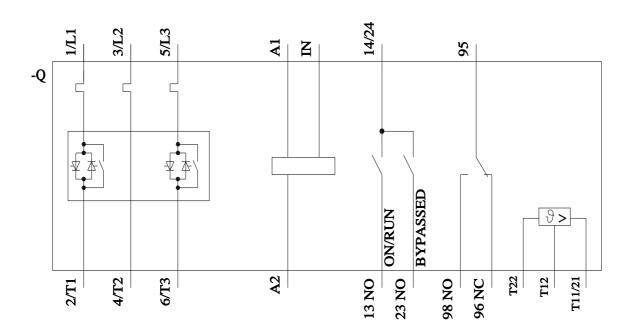
Simulation Tool for Soft Starters (STS)

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









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