SIEMENS

product brand name

Data sheet 3RW5226-1TC14

SIRIUS



SIRIUS soft starter 200-480 V 77 A, 110-250 V AC Screw 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 	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10		
 of circuit breaker usable at 500 V 	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10		
 of circuit breaker usable at 400 V at inside-delta circuit 	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10		
 of circuit breaker usable at 500 V at inside-delta circuit 	3VA2216-7MN32-0AA0; Type of coordination 1, lq = 20 kA, CLASS 10		
 of the gG fuse usable up to 690 V 	3NA3132-6; Type of coordination 1, Iq = 65 kA		
 of the gG fuse usable at inside-delta circuit up to 500 V 	3NA3132-6; Type of coordination 1, Iq = 65 kA		
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1224-0: 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 50 %		
start-up ramp time of soft starter	0 20 s		
current limiting value [%] adjustable	130 700 %		
certificate of suitability			
 CE marking 	Yes		
 UL approval 	Yes		
CSA approval	Yes		
product component is supported			
HMI-Standard	Yes		
HMI-High Feature	Yes		
product feature integrated bypass contact system	Yes		

number of controlled phases	3			
trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2			
buffering time in the event of power failure	CLASS TOA (default) / TOE / 20L, acc. to ILC 00947-4-2			
• for main current circuit	100 ms			
for control circuit				
	100 ms			
insulation voltage rated value	600 V			
degree of pollution	3, acc. to IEC 60947-4-2 6 kV			
impulse voltage rated value				
blocking voltage of the thyristor maximum service factor	_ 1 400 V 1			
surge voltage resistance rated value	6 kV			
maximum permissible voltage for safe isolation				
between main and auxiliary circuit	600 V			
shock resistance				
vibration resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting			
utilization category acc. to IEC 60947-4-2	15 mm to 6 Hz; 2g to 500 Hz			
reference code acc. to IEC 81346-2	AC 53a Q			
Substance Prohibitance (Date)	15.02.2018 00:00:00			
product function	10.02.2010 00.00.00			
• ramp-up (soft starting)	Yes			
	Yes			
ramp-down (soft stop)Soft Torque				
adjustable current limitation	Yes Yes			
pump ramp down				
	Yes			
intrinsic device protection meter everland protection	Yes Ves: Full motor protection (thermistor motor protection and electronic			
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			
operating measured value display	Yes; Only in conjunction with special accessories			
error logbook	Yes; Only in conjunction with special accessories			
via software parameterizable	No			
• via software configurable	Yes			
PROFlenergy	Yes; in connection with the PROFINET Standard communication module			
firmware update	Yes			
removable terminal for control circuit	Yes			
• torque control	No			
analog output	No			
Power Electronics				
operational current				
at 40 °C rated value	77 A			
at 50 °C rated value	68 A			
at 60 °C rated value	62 A			
operational current at inside-delta circuit				
at 40 °C rated value	133 A			
at 50 °C rated value	118 A			
at 60 °C rated value	107 A			
operating voltage				
rated value	200 480 V			
at inside-delta circuit rated value	200 480 V			
relative negative tolerance of the operating voltage	-15 %			
relative positive tolerance of the operating voltage	10 %			
relative negative tolerance of the operating voltage at	-15 %			
inside-delta circuit				

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 	22 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	37 kW
 at 400 V at 40 °C rated value 	37 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	75 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 	32 A
 at rotary coding switch on switch position 2 	35 A
 at rotary coding switch on switch position 3 	38 A
 at rotary coding switch on switch position 4 	41 A
 at rotary coding switch on switch position 5 	44 A
 at rotary coding switch on switch position 6 	47 A
at rotary coding switch on switch position 7	50 A
at rotary coding switch on switch position 8	53 A
at rotary coding switch on switch position 9	56 A
at rotary coding switch on switch position 10	59 A
at rotary coding switch on switch position 11	62 A
at rotary coding switch on switch position 12	65 A
at rotary coding switch on switch position 13	68 A
at rotary coding switch on switch position 14	71 A
at rotary coding switch on switch position 15	74 A
at rotary coding switch on switch position 16	77 A
• minimum	32 A
adjustable motor current	SZ / C
for inside-delta circuit at rotary coding switch on switch position 1	55.4 A
 for inside-delta circuit at rotary coding switch on switch position 2 	60.6 A
 for inside-delta circuit at rotary coding switch on switch position 3 	65.8 A
 for inside-delta circuit at rotary coding switch on switch position 4 	71 A
 for inside-delta circuit at rotary coding switch on switch position 5 	76.2 A
 for inside-delta circuit at rotary coding switch on switch position 6 	81.4 A
 for inside-delta circuit at rotary coding switch on switch position 7 	86.6 A
 for inside-delta circuit at rotary coding switch on switch position 8 	91.8 A
 for inside-delta circuit at rotary coding switch on switch position 9 	97 A
 for inside-delta circuit at rotary coding switch on switch position 10 	102 A
for inside-delta circuit at rotary coding switch on switch position 11	107 A
for inside-delta circuit at rotary coding switch on switch position 12	113 A
for inside-delta circuit at rotary coding switch on switch position 13	118 A
for inside-delta circuit at rotary coding switch on switch position 14	123 A
for inside-delta circuit at rotary coding switch on switch position 15	128 A
 for inside-delta circuit at rotary coding switch on switch position 16 	133 A

at inside-delta circuit minimum	_ 55.4 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 	35 W		
 at 50 °C after startup 	32 W		
at 60 °C after startup	31 W		
power loss [W] at AC at current limitation 350 %			
 at 40 °C during startup 	1 107 W		
 at 50 °C during startup 	933 W		
at 60 °C during startup	826 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 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	75 mA		
locked-rotor current at close of bypass contact	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			
number of analog outputs	2 normally-open contacts (NO) / 1 changeover contact (CO) 0		
switching capacity current of the relay outputs			
	3 A		
 at AC-15 at 250 V rated value at DC-13 at 24 V rated value 	3 A 1 A		
	I A		
Installation/ mounting/ dimensions			
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back		
fastening method	screw fixing		
height	306 mm		
width	185 mm		
depth	203 mm		
required spacing with side-by-side mounting			
forwards	10 mm		
backwards	0 mm		
• upwards	100 mm		

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 stranded • 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 stranded type of connectable conductor cross-sections • for control circuit solid 1x (10 2/0 2x (2.5 16 2x (2.5 36 1x (2.5 50 1x (10 70 1x (10 70	m²)		
type of electrical connection	m²)		
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 • with conductor cross-section = 1.5 mm² maximum • with conductor cross-sections • for main contacts for box terminal using the front clamping point solid • 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 solid • 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 front 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 solid • for main contacts for box terminal using both clamping points solid • 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 both clamping point 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 stranded • for control circuit solid • type of connectable conductor cross-sections • for control circuit solid • for control circuit solid • type of connectable conductor cross-sections • for auxiliary and control circuit solid • the digital inputs at AC maximum • at the digital inputs at AC maximum • at the digital inputs at AC maximum • or main contacts with screw-type terminals • for auxiliary and control contacts with screw-type • for main contacts wi	m²)		
• for main current circuit • for control circuit • for control circuit • for control circuit • for control circuit • for control circuit • width of connection bar maximum • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-sections • for main contacts for box terminal using the front clamping point solid • 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 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 • at AWG cables for box terminal using the back clamping points solid • for main contacts for box terminal using both clamping points solid • for main contacts for box terminal using both clamping points stranded • 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 stranded • for main contacts for box terminal using both 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 ontrol circuit finely stranded with core end processing • for control circuit finely stranded with core end processing • for control circuit solid • for control circuit finely stranded with core end processing • for main contacts for box terminal using the back clamping point stranded type of connectable conductor cross-sections • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid • for auxiliary and control co	m²)		
width of connection bar maximum wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 2.5 mm² maximum with conductor cross-section = 2.5 mm² maximum with conductor cross-section = 2.5 mm² maximum with conductor cross-sections for main contacts for box terminal using the front clamping point solid 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 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 the back clamping point stranded for main contacts for box terminal using the back clamping point stranded for omain contacts for box terminal using both clamping point stranded for main contacts for box terminal using the back clamping point stranded for omain contacts for box terminal using the back clamping point stranded for one control circuit finely stranded with core end processing at AWG cables for control circuit solid for control circuit finely stranded with core end processing at AWG cables for control circuit solid for control circuit solid for control circuit solid for auxiliary and control contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals tightening torque [lbf-in]	m²)		
width of connection bar maximum 25 mm wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum 50 m • with conductor cross-section = 2.5 mm² maximum 150 m • with conductor cross-section = 2.5 mm² maximum 250 m • with conductor cross-section = 2.5 mm² maximum 150 m • with conductor cross-section = 2.5 mm² maximum 250 m • promain contacts for box terminal using the front clamping point solid 1x (2.5 16 m) • for main contacts for box terminal using the front clamping point stranded 1x (2.5 16 m) • at AWG cables for main contacts for box terminal using the front clamping point solid 1x (2.5 16 m) • for main contacts for box terminal using the back clamping point solid 1x (2.5 16 m) • for main contacts for box terminal using both clamping points solid 1x (2.5 16 m) • for main contacts for box terminal using both clamping points finely stranded with core end processing 2x (2.5 16 m) • for main contacts for box terminal using the back clamping point stranded 1x (2.5 16 m) • for main contacts for box terminal using the back clamping point stranded 1x (2.5 16 m) • for main contacts for box terminal using the back clamping point stranded 1x (2.5 50 m) • for control circuit solid	m²)		
wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-sections • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front clamping point 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 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 solid • 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 stranded • for main contacts for box terminal using both 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 onnectable conductor cross-sections • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid • to control circuit finely stranded with core end processing • at AWG cables for control circuit solid • for onnectable conductor cross-sections • for ontrol circuit finely stranded with core end processing • at AWG cables for control circuit solid • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • tightening tor	m²)		
with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum with conductor cross-sections for main contacts for box terminal using the front clamping point solid 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 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 point 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 stranded for main contacts for box terminal using both 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 main contacts for box terminal using the back clamping point stranded for control circuit solid for control circuit solid for control circuit finely stranded with core end processing at AWG cables for control circuit solid for control circuit finely stranded with core end processing at AWG cables for control circuit solid for or control circuit solid for or control circuit finely stranded with core end processing at AWG cables for control circuit solid for or auxiliary and control con	m²)		
with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum type of connectable conductor cross-sections	m²)		
type of connectable conductor cross-sections • for main contacts for box terminal using the front clamping point solid • 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 stranded • at AWG cables for main contacts for box terminal 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 of ror main contacts for box terminal using both clamping points solid • for main contacts for box terminal using both clamping points solid • 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 both clamping point finely stranded with core end processing • for omain 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 onnectable conductor cross-sections • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid • between soft starter and motor maximum • at the digital inputs at AC maximum • tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • tightening torque [lbf-in]	m²)		
type of connectable conductor cross-sections • for main contacts for box terminal using the front clamping point solid • 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 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 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 the back clamping point finely stranded with core end processing • for main contacts for box terminal using the back clamping point stranded type of connectable conductor cross-sections • for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid * tx (0.5 4. 1x (2.5 16 of 1 16 of	m²)		
• for main contacts for box terminal using the front clamping point solid • 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 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 of 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 point stranded • for main contacts for box terminal using both 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 * type of connectable conductor cross-sections • for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid * type of connectable conductor cross-sections • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid * type of connectable conductor cross-sections • for control circuit solid * to C.5 4. 1x (2.5 16 2x (2.5	m²)		
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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 • 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 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 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 control circuit solid • for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid • for ocontrol circuit solid • for ocontrol circuit finely stranded with core end processing • at AWG cables for control circuit solid • at the digital inputs at AC maximum • at the digital inputs at AC maximum • at the digital inputs at AC maximum • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals			
clamping point stranded at AWG cables for main contacts for box terminal 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 point stranded for main contacts for box terminal using both 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 control circuit solid for control circuit solid for control circuit finely stranded with core end processing at AWG cables for control circuit solid for control circuit finely stranded with core end processing at AWG cables for control circuit solid for control circuit solid for control circuit finely stranded with core end processing at AWG cables for control circuit solid for control circuit	n²)		
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 • 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 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 stranded type of connectable conductor cross-sections • for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid **Ix (2.5 36** 1x (2.5			
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 stranded 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 stranded type of connectable conductor cross-sections for control circuit solid for control circuit finely stranded with core end processing at AWG cables for control circuit solid for control circuit finely stranded with core end processing at AWG cables for control circuit solid for control circuit finely stranded with core end processing at AWG cables for control circuit solid for at the digital inputs at AC maximum at the digital inputs at AC maximum for auxiliary and control contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals fightening torque [lbf-in]			
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 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 with core end processing • for main contacts for box terminal using the back clamping point stranded type of connectable conductor cross-sections • for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals tightening torque [lbf-in]	1x (2.5 16 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 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 stranded with core end processing • for main contacts for box terminal using the back clamping point stranded type of connectable conductor cross-sections • for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals tightening torque [lbf-in]			
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 the back clamping point finely stranded with core end processing • for main contacts for box terminal using the back clamping point stranded type of connectable conductor cross-sections • for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid iv (0.5 4. wire length • between soft starter and motor maximum • at the digital inputs at AC maximum tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals tightening torque [lbf·in]			
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 stranded type of connectable conductor cross-sections • for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid **wire length* • between soft starter and motor maximum • at the digital inputs at AC maximum **tightening torque* • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals **tightening torque [lbf-in]*			
clamping point finely stranded with core end processing • for main contacts for box terminal using the back clamping point stranded type of connectable conductor cross-sections • for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid **wire length* • between soft starter and motor maximum • at the digital inputs at AC maximum **tightening torque* • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals **tightening torque [lbf-in]*	2x (6 16 mm²), 2x (10 50 mm²)		
clamping point stranded type of connectable conductor cross-sections • for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid 1x (20 12 wire length • between soft starter and motor maximum • at the digital inputs at AC maximum tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals tightening torque [lbf-in]	1x (2.5 50 mm²)		
for control circuit solid for control circuit finely stranded with core end processing at AWG cables for control circuit solid 1x (0.5 2. 2. 2. 2. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	1x (10 70 mm²)		
for control circuit finely stranded with core end processing at AWG cables for control circuit solid interpretation of the strate of the strat			
processing at AWG cables for control circuit solid wire length between soft starter and motor maximum at the digital inputs at AC maximum tightening torque for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals tightening torque [lbf·in]	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)		
wire length • between soft starter and motor maximum • at the digital inputs at AC maximum 100 m tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals tightening torque [lbf·in]	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)		
between soft starter and motor maximum at the digital inputs at AC maximum 100 m tightening torque for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals tightening torque [lbf·in]	x (20 14)		
at the digital inputs at AC maximum tightening torque for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals tightening torque [lbf·in]			
tightening torque • for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals tightening torque [lbf·in] 4.5 6 N·m 0.8 1.2 N			
• for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals tightening torque [lbf·in] 4.5 6 N·m 0.8 1.2 N			
• for auxiliary and control contacts with screw-type terminals tightening torque [lbf·in] 0.8 1.2 N			
terminals tightening torque [lbf·in]			
tightening torque [lbf·in]			
To make the first type to mindle			
 for auxiliary and control contacts with screw-type terminals 			
Ambient conditions			
installation altitude at height above sea level maximum 5 000 m; De			
ambient temperature	ing as of 1000 m, see catalog		
• during operation -25 +60 ° above	ing as of 1000 m, see catalog		
• during storage and transport -40 +80 °	ing as of 1000 m, see catalog Please observe derating at temperatures of 40 °C or		
environmental category ● during operation acc. to IEC 60721 3K6 (no ice mist), 3S2 (see the content of the co			

 during storage acc. to IEC 60721 	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must				
1 : 1	not get inside the devices), 1M4				
during transport acc. to IEC 60721 FMO and the district of the second sec	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	V.				
PROFINET standard	Yes				
EtherNet/IP	Yes				
Modbus RTU	Yes				
Modbus TCP	Yes				
PROFIBUS	Yes				
L/CSA ratings					
manufacturer's article number					
of circuit breaker					
 usable for Standard Faults at 460/480 V according to UL 	Siemens type: 3VA51, max. 125 A; Iq = 10 kA				
 usable for High Faults at 460/480 V according to UL 	Siemens type: 3VA51, max. 125 A; Iq max = 65 kA				
 usable for Standard Faults at 460/480 V at inside-delta circuit according to UL 	Siemens type: 3VA51, max. 125 A; Iq = 10 kA				
 usable for High Faults at 460/480 V at inside- delta circuit according to UL 	Siemens type: 3VA51, max. 125 A; Iq max = 65 kA				
 usable for Standard Faults at 575/600 V according to UL 	Siemens type: 3VA51, max. 125 A; Iq = 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. 250 A; Iq = 10 kA				
 usable for High Faults up to 575/600 V according to UL 	Type: Class J / L, max. 250 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. 250 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. 250 A; Iq = 100 kA				
operating power [hp] for 3-phase motors					
 at 200/208 V at 50 °C rated value 	20 hp				
 at 220/230 V at 50 °C rated value 	25 hp				
 at 460/480 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 	40 hp				
 at 460/480 V at inside-delta circuit at 50 °C rated value 	75 hp				
contact rating of auxiliary contacts according to UL	R300-B300				
afety 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 conta	act from the front with	cover		
electromagnetic compatibility	in accordance with IEC 6094	in accordance with IEC 60947-4-2			
ertificates/ approvals					
General Product Approval		EMC	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=3RW5226-1TC14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5226-1TC14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5226-1TC14

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5226-1TC14&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

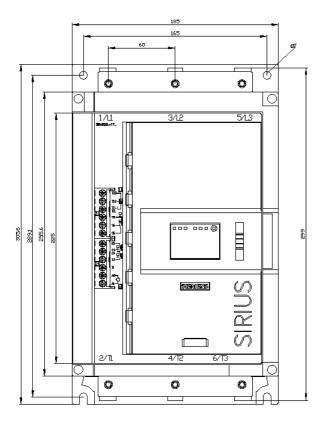
https://support.industry.siemens.com/cs/ww/en/ps/3RW5226-1TC14/char

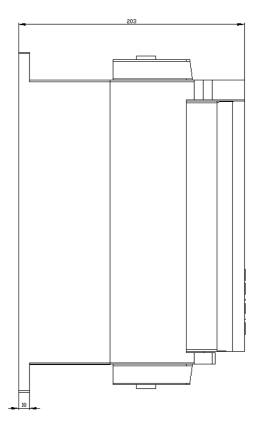
Characteristic: Installation altitude

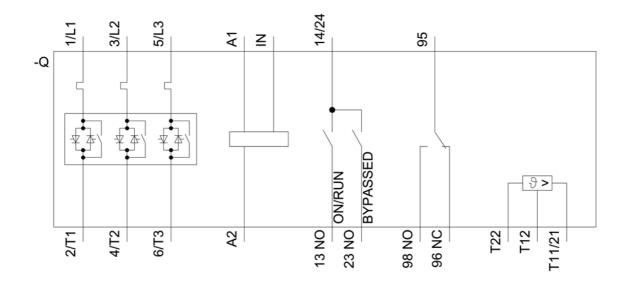
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5226-1TC14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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