SIEMENS

3RW5225-1AC14 **Data sheet**



SIRIUS soft starter 200-480 V 63 A, 110-250 V AC Screw terminals Analog output



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 	<u>3RW5980-0HS00</u>
 of high feature HMI module usable 	<u>3RW5980-0HF00</u>
 of communication module PROFINET standard usable 	3RW5980-0CS00
 of communication module PROFIBUS usable 	3RW5980-0CP00
 of communication module Modbus TCP usable 	3RW5980-0CT00
 of communication module Modbus RTU usable 	3RW5980-0CR00
 of communication module Ethernet/IP 	3RW5980-0CE00
 of circuit breaker usable at 400 V 	3VA2163-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3VA2163-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3830-6; Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	3NA3830-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1022-0; Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE8024-1; Type of coordination 2, Iq = 65 kA
Seneral technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 %; non-adjustable
start-up ramp time of soft starter	0 20 s
current limiting value [%] adjustable	130 700 %
certificate of suitability	
CE marking	Yes
UL approval	Yes
CSA approval	Yes
product component	
HMI-High Feature	No
• is supported HMI-Standard	Yes
• is supported HMI-High Feature	Yes
product feature integrated bypass contact system	Yes

number of controlled phases

buffering time in the event of power failure

- for main assument -travit	400 ma
for main current circuit for control circuit	100 ms
• for control circuit	100 ms
insulation voltage rated value	600 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 400 V
service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	600 V
between main and auxiliary circuit	600 V
shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
utilization category according to IEC 60947-4-2	AC 53a
reference code according to IEC 81346-2	Q 2014512040
Substance Prohibitance (Date)	02/15/2018
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7 1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) covering any of its individual anti- and syn-isomers or any combination thereof Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Dodecamethylcyclohexasiloxane (D6) - 540-97-6
product function	
• ramp-up (soft starting)	Yes
• ramp-down (soft stop)	Yes
• Soft Torque	Yes
adjustable current limitation	Yes
pump ramp down	Yes
intrinsic device protection	Yes
motor overload protection	Yes; Electronic motor overload protection
evaluation of thermistor motor protection	No
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	Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)
Power Electronics	
operational current	
• at 40 °C rated value	63 A
• at 50 °C rated value	55.5 A
at 60 °C rated value	50.5 A
operational current at inside-delta circuit	
• at 40 °C rated value	109 A
at 50 °C rated value	96 A
at 60 °C rated value	87.5 A
operating voltage	
rated value	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 relative negative tolerance of the operating voltage at	10 % -15 %
inside-delta circuit	40.0/
relative positive tolerance of the operating voltage at	10 %

inside-delta circuit	
operating power for 3-phase motors	40.5111
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
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	
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 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 for inside-delta circuit at rotary coding switch on switch 	78.8 A 83.1 A
position 10 • for inside-delta circuit at rotary coding switch on switch	87.5 A
position 11 • for inside-delta circuit at rotary coding switch on switch	91.8 A
position 12 • for inside-delta circuit at rotary coding switch on switch	96.1 A
position 13 • for inside-delta circuit at rotary coding switch on switch	100 A
position 14 • for inside-delta circuit at rotary coding switch on switch position 15	105 A
for inside-delta circuit at rotary coding switch on switch position 16	109 A
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	10 70, Molative to emaile of detable to
at 40 °C after startup	31 W
at +0 ○ atter startup	OT W

at 60 °C after startup	27 W
power loss [W] at AC at current limitation 350 %	
 at 40 °C during startup 	882 W
 at 50 °C during startup 	744 W
at 60 °C during startup	659 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
● at 50 Hz	110 250 V
• at 60 Hz	110 250 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %
relative positive tolerance of the control supply 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
inrush current by closing the bypass contacts 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	
Inputs/ Outputs number of digital inputs	1
	3
number of digital inputs number of digital outputs • not parameterizable	3 2
number of digital inputs number of digital outputs • not parameterizable digital output version	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO)
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs	3 2
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards	2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side	2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals	2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5 mm 5.6 kg
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5 mm 5 mm
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5 mm 5.6 kg
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5 mm 5 mm
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit	2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5 mm 5.6 kg

 using the front clamping point solid 	1x (2.5 16 mm²)
 using the front clamping point finely stranded with core 	1x (2.5 50 mm²)
end processing	
 using the front clamping point stranded 	1x (10 70 mm²)
 using the back clamping point solid 	1x (2.5 16 mm²)
 r box terminal using the back clamping point 	1x (10 2/0)
 using both clamping points solid 	2x (2.5 16 mm²)
 using both clamping points finely stranded with core end processing 	2x (2.5 35 mm²)
 using both clamping points stranded 	2x (6 16 mm²), 2x (10 50 mm²)
 using the back clamping point finely stranded with core end processing 	1x (2.5 50 mm²)
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)
for 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	0.8 1.2 N·m
terminals	
tightening torque [lbf·in]	
 for main contacts with screw-type terminals 	40 53 lbf·in
 for auxiliary and control contacts with screw-type terminals 	7 10.3 lbf·in
Ambient conditions	
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
ambient temperature	
 during operation 	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
 during storage and transport 	-40 +80 °C
environmental category	
- ,	
during operation according to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
during operation according to IEC 60721	(sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get
 during operation according to IEC 60721 during storage according to IEC 60721 	(sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
 during operation according to IEC 60721 during storage according to IEC 60721 during transport according to IEC 60721 	(sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
during operation according to IEC 60721 during storage according to IEC 60721 during transport according to IEC 60721 Environmental footprint	(sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
during operation according to IEC 60721 during storage according to IEC 60721 during transport according to IEC 60721 Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference	(sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech
during operation according to IEC 60721 during storage according to IEC 60721 during transport according to IEC 60721 Environmental footprint Siemens Eco Profile (SEP)	(sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech
• during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol	(sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech
• during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported	(sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A
• during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard	(sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A
during operation according to IEC 60721 during storage according to IEC 60721 during transport according to IEC 60721 Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported PROFINET standard EtherNet/IP	(sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A
• during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU	(sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes Yes
during operation according to IEC 60721 during storage according to IEC 60721 during transport according to IEC 60721 Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported PROFINET standard EtherNet/IP Modbus RTU Modbus TCP PROFIBUS	(sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes
• during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP	(sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes
• during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings	(sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes
• during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker usable for Standard Faults	(sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes
• during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker usable for Standard Faults — at 460/480 V according to UL	(sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
• during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker usable for Standard Faults — at 460/480 V according to UL — 60/480 V according to UL	(sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA
• during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker usable for Standard Faults — at 460/480 V according to UL — at 460/480 V at inside-delta circuit according to UL	(sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq = 10 kA
during operation according to IEC 60721 during storage according to IEC 60721 during transport according to IEC 60721 Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported PROFINET standard EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker usable for Standard Faults — at 460/480 V according to UL — 60/480 V at inside-delta circuit according to UL — 60/480 V at inside-delta circuit according to UL	(sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA
• during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker usable for Standard Faults — at 460/480 V according to UL — 60/480 V at inside-delta circuit according to UL — 60/480 V at inside-delta circuit according to UL — at 575/600 V according to UL	(sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA
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• during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker usable for Standard Faults — at 460/480 V according to UL — 60/480 V according to UL — at 460/480 V at inside-delta circuit according to UL — at 575/600 V according to UL — at 575/600 V according to UL — at 575/600 V at inside-delta circuit according to UL — at 575/600 V at inside-delta circuit according to UL — at 575/600 V at inside-delta circuit according to UL — at 575/600 V at inside-delta circuit according to UL — at 575/600 V at inside-delta circuit according to UL — at 575/600 V at inside-delta circuit according to UL • of the fuse — usable for Standard Faults up to 575/600 V	(sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA
• during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker usable for Standard Faults — at 460/480 V according to UL — 60/480 V according to UL — at 460/480 V at inside-delta circuit according to UL — at 575/600 V according to UL — at 575/600 V according to UL • of the fuse	(sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Yes Ye

 — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 200 A; Iq = 10 kA
 — usable for High Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 225 A; Iq = 100 kA
operating power [hp] for 3-phase motors	
 at 200/208 V at 50 °C rated value 	15 hp
 at 220/230 V at 50 °C rated value 	20 hp
 at 460/480 V at 50 °C rated value 	40 hp
 at 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
contact rating of auxiliary contacts according to UL	R300-B300
Electrical Safety	
protection class IP on the front according to IEC 60529	IP00; IP20 with cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover
Approvals Certificates	

General Product Approval





Confirmation







General Product Approval

EMV

Test Certificates

Marine / Shipping





<u>KC</u>

Type Test Certificates/Test Report





Marine / Shipping

other

Environment





Confirmation





Environmental Confirmations

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RW5225-1AC14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5225-1AC14

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW5225-1AC14

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5225-1AC14&lang=en

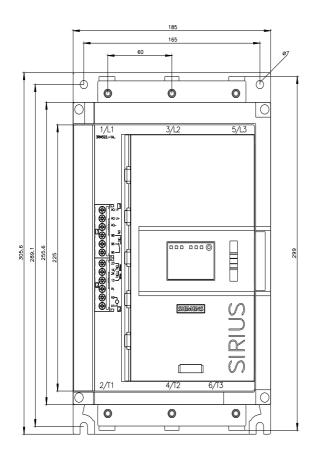
Characteristic: Tripping characteristics, I2t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5225-1AC14/char

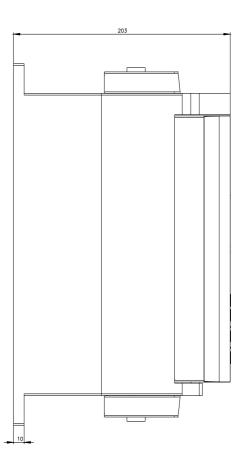
Characteristic: Installation altitude

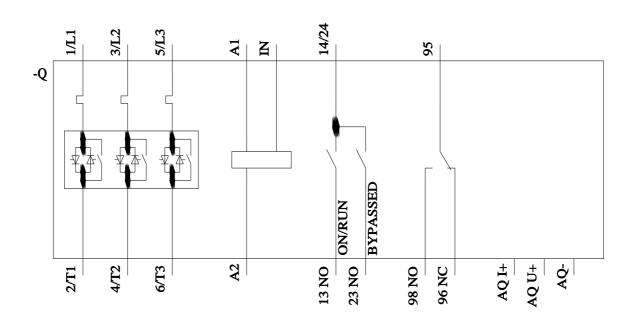
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5225-1AC14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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