SIEMENS

Data sheet

product brand name



SIRIUS soft starter 200-480 V 63 A, 110-250 V AC spring-type terminals Thermistor input

3RW5225-3TC14



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 	<u>3RW5980-0CS00</u>
 of communication module PROFIBUS usable 	<u>3RW5980-0CP00</u>
 of communication module Modbus TCP usable 	<u>3RW5980-0CT00</u>
 of communication module Modbus RTU usable 	<u>3RW5980-0CR00</u>
 of communication module Ethernet/IP 	<u>3RW5980-0CE00</u>
 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 	<u>3NE1022-0; Type of coordination 2, Iq = 65 kA</u>
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE8024-1: Type of coordination 2, Iq = 65 kA</u>
eneral technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 %; non-adjustable
start-up ramp time of soft starter	0 20 s
current limiting value [%] adjustable	130 700 %
certificate of suitability	
CE marking	Yes
UL approval	Yes
CSA approval	Yes
product component	
HMI-High Feature	No
 is supported HMI-Standard 	Yes
 is supported HMI-High Feature 	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3
buffering time in the event of power failure	

SIRIUS

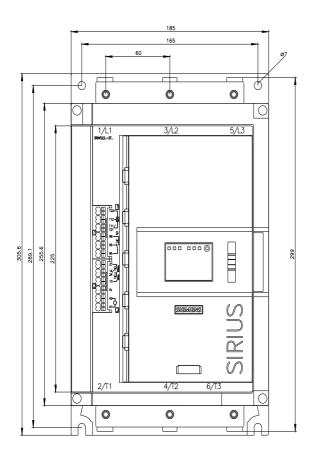
 for main current circuit 	100 ms
for control circuit	100 ms
insulation voltage rated value	600 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 400 V
service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	
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
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; 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 operating measured value display 	Yes 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	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	10 %
relative negative tolerance of the operating voltage at inside-delta circuit	-15 %

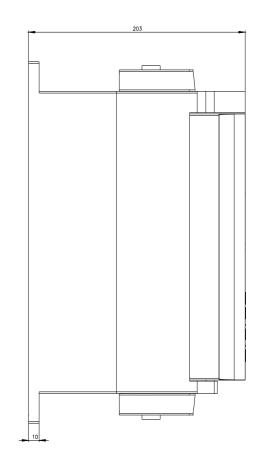
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
• at 230 V at 40 °C rated value	18.5 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	30 kW
 at 400 V at 40 °C rated value 	30 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	55 kW
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 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 12 at rotary coding switch on switch position 13 	55.5 A
at rotary coding switch on switch position 14	58.5 A
 at rotary coding switch on switch position 15 	60.5 A
 at rotary coding switch on switch position 16 	63 A
minimum	25.5 A
adjustable motor current	20.0 h
for inside-delta circuit at rotary coding switch on switch	44.2 A
position 1	
 for inside-delta circuit at rotary coding switch on switch position 2 	48.5 A
 for inside-delta circuit at rotary coding switch on switch position 3 	52.8 A
 for inside-delta circuit at rotary coding switch on switch position 4 	57.2 A
 for inside-delta circuit at rotary coding switch on switch position 5 	61.5 A
 for inside-delta circuit at rotary coding switch on switch position 6 	65.8 A
 for inside-delta circuit at rotary coding switch on switch position 7 	70.1 A
 for inside-delta circuit at rotary coding switch on switch position 8 	74.5 A
 for inside-delta circuit at rotary coding switch on switch position 9 	78.8 A
 for inside-delta circuit at rotary coding switch on switch position 10 	83.1 A
 for inside-delta circuit at rotary coding switch on switch position 11 	87.5 A
 for inside-delta circuit at rotary coding switch on switch position 12 	91.8 A
 for inside-delta circuit at rotary coding switch on switch position 13 	96.1 A
 for inside-delta circuit at rotary coding switch on switch position 14 	100 A
 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	
• at 40 °C after startup	31 W

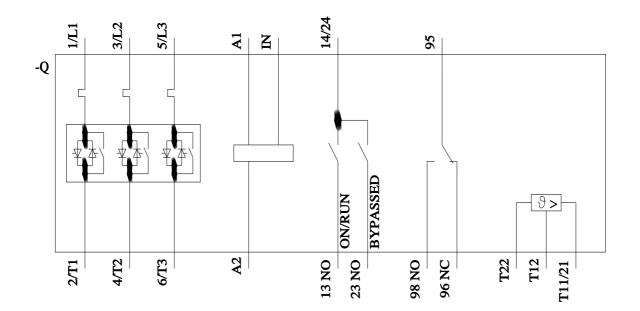
• 100 C and statup 2 ** • 100 C and statup 1 ** • 100 C and statup <th>a at 50 °C after startur</th> <th>20 W</th>	a at 50 °C after startur	20 W
preventions (V) 4 A C at correct limitation 350 % 982 W • et 60 *C during statup 982 W • et 60 *C during statup 983 W Control separt V during statup 983 W Status Control separt V during statup 983 W • et 60 1th 110 200 V • et 60 1th 10 % • et 60 1th 0 00 Hz • relative positive tolerance of the control supply voltage 10 % • for et anatage statupalication of control supply voltage 1	at 50 °C after startup	29 W
+ + + 0 ° ° Claining startup B82 W + + + 0 ° ° Claining startup 650 W Control scientify formation 550 W Control scientify of the control supply voltage AC control supply voltage at AC 10250 V	· · · · · · · · · · · · · · · · · · ·	27 VV
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• 18 0° C. aurog stanup Bes W Control Supply voltage of the control supply voltage AC Control Supply voltage at AC 10 • at 60 1% 110 • at 60 1% 110 • at 60 1% 100 • at 60 1% 100 % • at 60 1% 10% • At at 60 1% 10% • Control supply voltage of the control supply voltage 10% • Control supply voltage of the control supply voltage 10% • Telative negative tolerance of the control supply voltage 10% • relative positive tolerance of the control supply voltage 10% • relative positive tolerance of the control supply voltage 10% • relative positive tolerance of the control supply voltage <th></th> <th></th>		
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breaker (low 600 A), C6 miniature circuit breaker (low 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 outputs 0 switching capacity current of the relay outputs 0 • at AC-15 at 250 Vrated value 3 A • at AC-15 at 250 Vrated value 1 A Installation/ mounting/ dimensions +/. 10° rotation possible and can be titted forward or backward on vertical mounting surface fastening method screw fixing height 306 mm width 185 mm depth 203 mm required spacing with side-by-side mounting • forwards 0 mm • upwards 10 mm • backwards 0 mm • at the side 5 mm • downwards 5 kg connot circuit spring-loaded terminals		
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Installation/ mounting/ dimensions mounting position +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface fastening method screw fixing height 306 mm width 185 mm depth 203 mm required spacing with side-by-side mounting • • forwards 10 mm • backwards 0 mm • upwards 75 mm • at the side 5 mm weight without packaging 5.6 kg Connections/ Terminals box terminal • for control circuit box terminal • for control circuit 25 mm		
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type of electrical connection • for main current circuit box terminal • for control circuit spring-loaded terminals width of connection bar maximum 25 mm		
• for main current circuit box terminal • for control circuit spring-loaded terminals width of connection bar maximum 25 mm		
• for control circuit spring-loaded terminals width of connection bar maximum 25 mm		box terminal
width of connection bar maximum 25 mm		
wire length for thermistor connection		
	wire length for thermistor connection	

	50
• with conductor cross-section = 0.5 mm ² maximum	50 m
• with conductor cross-section = 1.5 mm ² maximum	150 m
with conductor cross-section = 2.5 mm ² maximum	250 m
type of connectable conductor cross-sections for main contacts for box terminal	
 using the front clamping point solid 	1x (2.5 16 mm²)
 using the front clamping point finely stranded with core 	1x (2.5 50 mm ²)
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 	2x (0.25 1.5 mm²)
 for control circuit finely stranded with core end processing 	2x (0.25 1.5 mm²)
 for AWG cables for control circuit solid 	2x (24 16)
 for AWG cables for control circuit finely stranded with core end processing 	2x (24 16)
wire length	
 between soft starter and motor maximum 	800 m
 at the digital inputs at AC maximum 	100 m
tightening torque	
 for main contacts with screw-type terminals 	4.5 6 N·m
 for auxiliary and control contacts with screw-type terminals 	0.8 1.2 N·m
tightening torque [lbf·in]	
 for main contacts with screw-type terminals 	40 53 lbf·in
 for auxiliary and control contacts with screw-type terminals 	7 10.3 lbf-in
Ambient conditions	
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
ambient temperature	
 during operation 	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
 during storage and transport 	-40 +80 °C
environmental category	
• during operation according to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), $3M6$
during storage according to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
during transport according to IEC 60721	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
Environmental footprint	
Siemens Eco Profile (SEP)	Siemens EcoTech
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	Yes
Modbus TCP	Yes
PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
 of circuit breaker usable for Standard Faults 	
— at 460/480 V according to UL	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 10 kA
— 60/480 V according to UL	Siemens type: 3VA51, max. 125 A; lq max = 65 kA
- at 460/480 V at inside-delta circuit according to UL	Siemens type: 3VA51, max. 125 A; lq = 10 kA
- 60/480 V at inside-delta circuit according to UL	Siemens type: 3VA51, max. 125 A; lq max = 65 kA

				$max = 70 \wedge ar 2 \sqrt{4} = 1 ma$	
	V according to UL		Siemens type: 3RV2742		x. 125 A; lq = 10 kA
	V at inside-delta circuit	according to UL	Siemens type: 3VA51, m	nax. 125 A; Iq = 10 kA	
of the fuse			T 01 500	000 4	
 — usable for saccording to L 	Standard Faults up to 57 JL	75/600 V	Type: Class RK5 / K5, m	nax. 200 A; Iq = 10 kA	
— usable for I UL	High Faults up to 575/60	00 V according to	Type: Class J / L, max. 2	225 A; lq = 100 kA	
	Standard Faults at inside according to UL	e-delta circuit up	Type: Class RK5 / K5, m	nax. 200 A; Iq = 10 kA	
— usable for I 575/600 V acc	High Faults at inside-del cording to UL	ta circuit up to	Type: Class J / L, max. 2	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 i	nside-delta circuit at 50	°C rated value	30 hp		
• at 220/230 V at i	nside-delta circuit at 50	°C rated value	30 hp		
• at 460/480 V at i	nside-delta circuit at 50	°C rated value	75 hp		
-	liary contacts accordir	ng to UL	R300-B300		
Electrical Safety					
	the front according to		IP00; IP20 with cover		
· ·	he front according to I	EC 60529	finger-safe, for vertical c	ontact from the front with o	cover
oprovals Certificates					
		~ ~ ~		(m)	
CSA		EG-Konf.	UK CA		UL
General Product Approval	EMV		CA Test Certificates	ccc	υg
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	EMV RCM		Test Certificates	s Marine / Shippir	rg B <u>U R E A U</u> V E R I TA S
Marine / Shipping	EMV RCM	KC	Test Certificates	s Marine / Shippir	eg Environmental Con- firmations
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