SIEMENS

Data sheet

3RW5225-1AC04



SIRIUS soft starter 200-480 V 63 A, 24 V AC/DC 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 	<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>
General 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

product feature integrated bypass contact system

Yes Yes

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• 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 Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4
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 inside-delta circuit	10 % -15 %
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
• at 230 V at 40 °C rated value	18.5 kW
 at 200 V at inside-delta circuit at 40 °C rated value 	30 kW

• at 100 V at 10 °C roted value	30 kW
 at 400 V at 40 °C rated value at 400 V at inside delta circuit at 40 °C rated value 	30 kW
at 400 V at inside-delta circuit at 40 °C rated value Operating frequency 1 rated value	55 kW 50 Hz
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative negative tolerance of the operating frequency	10 %
adjustable motor current	
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	74.5 A
 for inside-delta circuit at rotary coding switch on switch position 9 	78.8 A
 for inside-delta circuit at rotary coding switch on switch position 10 for inside delta circuit at rotary coding switch on switch 	83.1 A
 for inside-delta circuit at rotary coding switch on switch position 11 for inside-delta circuit at rotary coding switch on switch 	87.5 A 91.8 A
 for inside-delta circuit at rotary coding switch on switch position 12 for inside-delta circuit at rotary coding switch on switch 	91.8 A 96.1 A
 for inside-delta circuit at rotary coding switch on switch for inside-delta circuit at rotary coding switch on switch 	100 A
 for inside delta circuit at rotary coding switch on switch for inside-delta circuit at rotary coding switch on switch 	105 A
 or for inside delta circuit at rotary coding switch on switch or inside-delta circuit at rotary coding switch on switch 	109 A
position 16 • at inside-delta circuit minimum	44.2 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	
• at 40 °C after startup	31 W
• at 50 °C after startup	29 W
• at 60 °C after startup	27 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	882 W
• at 50 °C during startup	744 W

 at 60 °C during startup 	659 W
Control circuit/ Control	033 W
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
at 50 Hz rated value	24 V
at 60 Hz rated value	24 V 24 V
relative negative tolerance of the control supply voltage at	-20 %
AC at 50 Hz	-20 70
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
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 voltage at DC	
rated value	24 V
relative negative tolerance of the control supply voltage at DC	-20 %
relative positive tolerance of the control supply voltage at DC	20 %
control supply current in standby mode rated value	160 mA
holding current in bypass operation rated value	380 mA
inrush current by closing the bypass contacts maximum	7.6 A
inrush current peak at application of control supply voltage maximum	3.3 A
duration of inrush current peak at application of control supply voltage	12.1 ms
design of the overvoltage protection	Varistor
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply
Inputs/ Outputs	
number of digital inputs	1
number of digital outputs	3
not parameterizable	2
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	1
	•
switching capacity current of the relay outputs	
switching capacity current of the relay outputsat AC-15 at 250 V rated value	3 A
at AC-15 at 250 V rated valueat DC-13 at 24 V rated value	
• at AC-15 at 250 V rated value	3 A
at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position	3 A
at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions	3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing
at AC-15 at 250 V rated value at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position	3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm
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 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm 185 mm
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	3 A 1 A +/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface screw fixing 306 mm
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	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
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 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
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	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
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	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
tat 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 oforwards backwards upwards downwards downwards	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
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	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
 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 at the side weight without packaging	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
• 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 • at the side weight without packaging Connections/ Terminals	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
• 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 • at the side weight without packaging Connections/ Terminals type of electrical connection	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 5.6 kg
 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 downwards for main current circuit for context contex context context context context context con	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 6 kg box terminal
• 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 • at the side weight without packaging Connections/ Terminals type of electrical connection	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 5.6 kg

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 end processing 	1x (2.5 50 mm²)
 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
 at the digital inputs at DC maximum 	1 000 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; Iq = 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
 — at 460/480 V at inside-delta circuit according to UL — 60/480 V at inside-delta circuit according to UL 	Siemens type: 3VA51, max. 125 A; lq = 10 kA Siemens type: 3VA51, max. 125 A; lq max = 65 kA
 at 460/480 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 	Siemens type: 3VA51, max. 125 A; lq = 10 kA Siemens type: 3VA51, max. 125 A; lq max = 65 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 10 kA
 at 460/480 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 at 575/600 V at inside-delta circuit according to UL 	Siemens type: 3VA51, max. 125 A; lq = 10 kA Siemens type: 3VA51, max. 125 A; lq max = 65 kA
 at 460/480 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 	Siemens type: 3VA51, max. 125 A; lq = 10 kA Siemens type: 3VA51, max. 125 A; lq max = 65 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; lq = 10 kA

according to L			T 01 1/1		
— usable for I UL	High Faults up to 575/600	V according to	Type: Class J / L, max. 225	A; Iq = 100 kA	
— usable for S	— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL		Type: Class RK5 / K5, max. 200 A; lq = 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; lq = 100 kA			
operating power [hp]	•				
• at 200/208 V at 5			15 hp		
• at 220/230 V at \$	• 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	inside-delta circuit at 50 °C	C rated value	30 hp		
	inside-delta circuit at 50 °C		30 hp		
	inside-delta circuit at 50 °C		75 hp		
	liary contacts according		R300-B300		
Electrical Safety		,			
•	the front according to	IEC 60529	IP00; IP20 with cover		
-	he front according to IE		finger-safe, for vertical cont	act from the front with cover	
Approvals Certificates	The front according to income	0 00325	inger-sale, for vertical cont		
General Product App	roval				
	Confirmation			•	
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LH		ccc	EG-Konf.	UL	
EMV		Test Certificat	es Marine / Shipping		
_				_	
\mathbf{A}	KC	Type Test Cer			
					Lloyds
	_	ates/Test Re			Lloyd's Register
RCM	_				Lloyd's Register
RCM	_		port 💓	BUREAU VERITAS	Lloyds Register urs
RCM			port 💓	D U REAU VERITAS	Lloyds Register uis
RCM	other		port 💓	BUREAU VERITAS	Lloyds Register urs
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RCM	other	ates/Test Re	port 💓		Lloyds Register Lits
RCM Marine / Shipping	other	ates/Test Re	port 💓	Environmental Con-	Lloyds Kegister uis
Marine / Shipping	other	Environment	port 💓	Environmental Con-	Llovds Kegister uis
Marine / Shipping	other	Environment	port 💓	Environmental Con-	Lloyds Kegister uis
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