SIEMENS

Data sheet

3RW5215-1AC14



SIRIUS soft starter 200-480 V 25 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 	<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 	3RV2032-4EA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3RV2032-4EA10; Type of coordination 1, Iq = 15 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3RV2032-4VA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3RV2032-4VA10; Type of coordination 1, Iq = 15 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3822-6; Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	3NA3822-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1817-0; Type of coordination 2, Iq = 65 kA</u>
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE8021-1; 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

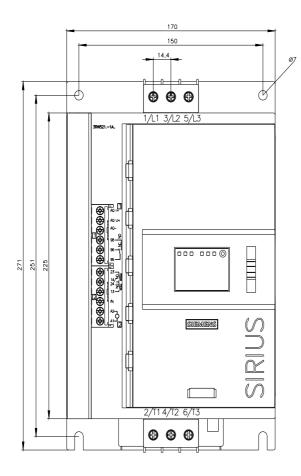
for main current circuit	100 ms			
for control circuit	100 ms			
insulation voltage rated value	600 V			
degree of pollution	3, acc. to IEC 60947-4-2			
impulse voltage rated value	5, acc. to fee 60947-4-2 6 kV			
blocking voltage of the thyristor maximum	1 600 V			
service factor	1			
surge voltage resistance rated value	1 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 Diboron trioxide - 1303-86-2			
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 error logbook 	Yes; Only in conjunction with special accessories 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	25 A			
• at 50 °C rated value	22.3 A			
• at 60 °C rated value	19.6 A			
operational current at inside-delta circuit				
• at 40 °C rated value	43.3 A			
• at 50 °C rated value	39 A			
• at 60 °C rated value	33.9 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 %			

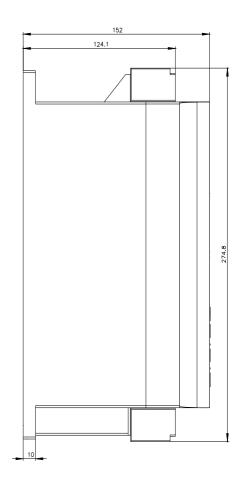
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
• at 230 V at 40 °C rated value	5.5 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	11 kW
 at 400 V at 40 °C rated value 	11 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	18.5 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	11.5 A
 at rotary coding switch on switch position 2 	12.4 A
 at rotary coding switch on switch position 3 	13.3 A
 at rotary coding switch on switch position 4 	14.2 A
 at rotary coding switch on switch position 5 	15.1 A
 at rotary coding switch on switch position 6 	16 A
 at rotary coding switch on switch position 7 	16.9 A
at rotary coding switch on switch position 7 at rotary coding switch on switch position 8	17.8 A
at rotary coding switch on switch position 9 at rotary coding switch on switch position 9	18.7 A
 at rotary coding switch on switch position 9 at rotary coding switch on switch position 10 	19.6 A
at rotary coding switch on switch position 10 at rotary coding switch on switch position 11	20.5 A
at rotary coding switch on switch position 11 at rotary coding switch on switch position 12	21.4 A
at rotary coding switch on switch position 12 at rotary coding switch on switch position 13	22.3 A
at rotary coding switch on switch position 13 at rotary coding switch on switch position 14	23.2 A
• at rotary coding switch on switch position 14	24.1 A
at rotary coding switch on switch position 13 at rotary coding switch on switch position 16	25 A
minimum	11.5 A
adjustable motor current	11.5 A
for inside-delta circuit at rotary coding switch on switch	19.9 A
position 1	
 for inside-delta circuit at rotary coding switch on switch position 2 	21.5 A
 for inside-delta circuit at rotary coding switch on switch position 3 	23 A
 for inside-delta circuit at rotary coding switch on switch position 4 	24.6 A
 for inside-delta circuit at rotary coding switch on switch position 5 	26.2 A
 for inside-delta circuit at rotary coding switch on switch position 6 	27.7 A
 for inside-delta circuit at rotary coding switch on switch position 7 	29.3 A
 for inside-delta circuit at rotary coding switch on switch position 8 	30.8 A
 for inside-delta circuit at rotary coding switch on switch position 9 	32.4 A
 for inside-delta circuit at rotary coding switch on switch position 10 	33.9 A
 for inside-delta circuit at rotary coding switch on switch position 11 	35.5 A
 for inside-delta circuit at rotary coding switch on switch position 12 	37.1 A
 for inside-delta circuit at rotary coding switch on switch position 13 	38.6 A
 for inside-delta circuit at rotary coding switch on switch position 14 	40.2 A
 for inside-delta circuit at rotary coding switch on switch position 15 	41.7 A
 for inside-delta circuit at rotary coding switch on switch position 16 	43.3 A
 at inside-delta circuit minimum 	19.9 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	20 W

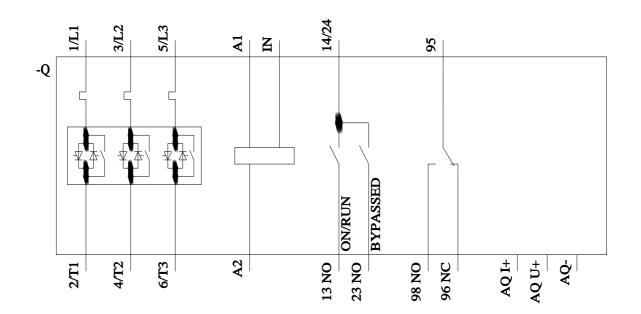
 at 50 °C after startup 	19 W				
• at 60 °C after startup	18 W				
power loss [W] at AC at current limitation 350 %					
 at 40 °C during startup 	376 W				
• at 50 °C during startup	318 W				
 at 60 °C during startup 	278 W				
Control circuit/ Control					
type of voltage of the control supply voltage	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	110 250 V -15 %				
AC at 50 Hz	-13 %				
relative positive tolerance of the control supply voltage at	10 %				
AC at 50 Hz					
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %				
relative positive tolerance of the control supply voltage atAC at 60 Hz	10 %				
control supply voltage frequency	50 60 Hz				
relative negative tolerance of the control supply voltage	-10 %				
frequency	40.97				
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	0.17 A				
inrush current peak at application of control supply voltage maximum	12.2 A				
duration of inrush current peak at application of control supply voltage	2.2 ms				
design of the overvoltage protection	Varistor				
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply				
Inputs/ Outputs					
number of digital inputs	1				
number of digital outputs	3				
not parameterizable	2				
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)				
number of analog outputs	1				
switching capacity current of the relay outputs					
• at AC-15 at 250 V rated value	3 A				
at DC-13 at 24 V rated value	1A				
Installation/ mounting/ dimensions					
mounting position	+/- 10° rotation possible and can be tilted forward or backward on vertical				
	mounting surface				
fastening method	screw fixing				
height	275 mm				
width	170 mm				
depth	152 mm				
required spacing with side-by-side mounting					
forwards	10 mm				
backwards	0 mm				
• upwards	100 mm				
downwards	75 mm				
• at the side	5 mm				
weight without packaging	2.1 kg				
Connections/ Terminals					
type of electrical connection					
for main current circuit	screw-type terminals				
for control circuit	screw-type terminals				
ture of composible conductor erections					
type of connectable conductor cross-sections					
for main contacts					

— solid	2x (1.0 2.5 mm²), 2x (2.5 10 mm²)			
 — solid — finely stranded with core end processing 				
for AWG cables for main current circuit solid	2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²) 2x (16 12), 2x (14 8)			
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 mm ²), 2x (0.5 1.5 mm ²)			
 for AWG cables for control circuit solid 	1x (0.5 2.5 mm ⁻), 2x (0.5 1.5 mm ⁻) 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 	2 2.5 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 	18 22 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	acc. to IEC 60947-4-2: Class A			
Communication/ Protocol communication module is supported				
Communication/ Protocol communication module is supported • PROFINET standard	Yes			
Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP	Yes Yes			
Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU	Yes Yes Yes			
Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP	Yes Yes Yes Yes			
Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS	Yes Yes Yes			
Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings	Yes Yes Yes Yes			
Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number	Yes Yes Yes Yes			
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	Yes Yes Yes Yes Yes			
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	Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA			
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 according to UL	Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; lq max = 65 kA			
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