SIEMENS

Data sheet

Siemens EcoTech



SIRIUS soft starter 200-480 V 143 A, 110-250 V AC Screw terminals Thermistor input

product brand name	SIRIUS			
product category	Hybrid switching devices			
product designation	Soft starter			
product type designation	3RW50			
manufacturer's article number				
 of standard HMI module usable 	<u>3RW5980-0HS01</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 	3VA2220-7MN32-0AA0; Type of assignment 1, Iq = 20 kA			
 of circuit breaker usable at 500 V 	3VA2220-7MN32-0AA0; Type of assignment 1, Iq = 20 kA			
 of the gG fuse usable up to 690 V 	3NA3244-6; Type of coordination 1, Iq = 65 kA			
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1 227-0; Type of coordination 2, Iq = 65 kA</u>			
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE3 334 -0B; Type of coordination 2, Iq = 65 kA</u>			
 of line contactor usable up to 480 V 	<u>3RT1055</u>			
 of line contactor usable up to 690 V 	<u>3RT1055</u>			
General technical data				
starting voltage [%]	30 100 %			
stopping voltage [%]	50 %; non-adjustable			
start-up ramp time of soft starter	0 20 s			
ramp-down 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	2			
buffering time in the event of power failure				

3RW5055-6TB14

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)	09/23/2019				
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 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				
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 PROFlenergy 	Yes				
	Yes; in connection with the PROFINET Standard communication module Yes				
 voltage ramp torque control 	No				
analog output	No				
Power Electronics					
operational current					
at 40 °C rated value	143 A				
• at 50 °C rated value	128 A				
at 60 °C rated value	118 A				
operating voltage					
rated value	200 480 V				
relative negative tolerance of the operating voltage	-15 %				
relative positive tolerance of the operating voltage	10 %				
operating power for 3-phase motors					
• at 230 V at 40 °C rated value	37 kW				
• at 400 V at 40 °C rated value	75 kW				
Operating frequency 1 rated value	50 Hz				
Operating frequency 2 rated value	60 Hz				
relative negative tolerance of the operating frequency	-10 %				
relative positive tolerance of the operating frequency	10 %				
adjustable motor current					
 at rotary coding switch on switch position 1 	68 A				

 at rotary coding switch on switch position 2 	73 A				
 at rotary coding switch on switch position 3 	78 A				
 at rotary coding switch on switch position 4 	83 A				
 at rotary coding switch on switch position 5 	88 A				
 at rotary coding switch on switch position 6 	93 A				
 at rotary coding switch on switch position 7 	98 A				
at rotary coding switch on switch position 8	103 A				
at rotary coding switch on switch position 9	108 A				
 at rotary coding switch on switch position 10 	113 A				
	118 A				
at rotary coding switch on switch position 11					
at rotary coding switch on switch position 12	123 A				
 at rotary coding switch on switch position 13 	128 A				
 at rotary coding switch on switch position 14 	133 A				
 at rotary coding switch on switch position 15 	138 A				
 at rotary coding switch on switch position 16 	143 A				
• minimum	68 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	23 W				
• at 50 °C after startup	19 W				
• at 60 °C after startup	16 W				
power loss [W] at AC at current limitation 350 %					
• at 40 °C during startup	1 336 W				
● at 50 °C during startup	1 134 W				
• at 60 °C during startup	1 007 W				
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor				
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				
	-15 %				
relative negative tolerance of the control supply voltage at AC at 50 Hz					
	10 %				
AC at 50 Hz relative positive tolerance of the control supply voltage at	-				
AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz	10 % -15 % 10 %				
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Installation/ mounting/ dimensions					
mounting position	with vertical mounting surface $+/-90^{\circ}$ rotatable, with vertical mounting surface $+/-22.5^{\circ}$ tiltable to the front and back				
fastening method	screw fixing				
height	198 mm				
width	120 mm				
depth	249 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	3.2 kg				
Connections/ Terminals					
type of electrical connection					
 for main current circuit 	busbar connection				
 for control circuit 	screw-type terminals				
width of connection bar maximum	25 mm				
wire length for thermistor connection					
• with conductor cross-section = 0.5 mm ² maximum	50 m				
 with conductor cross-section = 1.5 mm² maximum 	150 m				
 with conductor cross-section = 2.5 mm² maximum 	250 m				
type of connectable conductor cross-sections for main	200 111				
contacts for box terminal					
 using the front clamping point solid 	16 120 mm²				
 using the front clamping point finely stranded with core end processing 	16 120 mm ²				
 using the front clamping point finely stranded without core end processing 	10 120 mm²				
 using the front clamping point stranded 	16 70 mm²				
using the back clamping point solid	16 120 mm²				
 r box terminal using the back clamping point 	6 250 kcmil				
using both clamping points solid	max. 1x 95 mm², 1x 120 mm²				
using both clamping points solid using both clamping points finely stranded with core end					
 using both clamping points finely stranded with core end processing using both clamping points finely stranded without core 	max. 1x 95 mm², 1x 120 mm² max. 1x 95 mm², 1x 120 mm²				
end processing					
 using both clamping points stranded 	max. 2x 120 mm ²				
 using the back clamping point finely stranded with core end processing 	16 120 mm²				
 using the back clamping point finely stranded without core end processing 	10 120 mm²				
 using the back clamping point stranded 	16 120 mm²				
type of connectable conductor cross-sections					
 for AWG cables for main current circuit solid 	4 250 kcmil				
 for DIN cable lug for main contacts stranded 	16 95 mm²				
 for DIN cable lug for main contacts finely stranded 	25 120 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 mm ²), 2x (0.5 1.5 mm ²)				
for AWG cables for control circuit solid	1x (20 12), 2x (20 14)				
	IA (20 12), 2A (20 17)				
wire length	800 m				
between soft starter and motor maximum	800 m				
at the digital inputs at AC maximum	1 000 m				
tightening torque					
 for main contacts with screw-type terminals 	10 14 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 	89 124 lbf·in				
 for auxiliary and control contacts with screw-type 	7 10.3 lbf·in				
terminals					

Ambient conditions				
installation altitude at height above sea level maximum	5 000 m; derating as of 1000 m, see Manual			
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			
• PROFIBUS UL/CSA ratings				
manufacturer's article number				
of circuit breaker				
 — usable for Standard Faults at 460/480 V according to UL 	Siemens type: 3VA5225, max. 250 A; lq = 10 kA			
of the fuse				
 — usable for Standard Faults up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 350 A; lq = 10 kA			
— usable for High Faults up to 575/600 V according to UL	Type: Class J, max. 350 A; lq = 100 kA			
operating power [hp] for 3-phase motors				
• at 200/208 V at 50 °C rated value	40 hp			
 at 220/230 V at 50 °C rated value 	40 hp			
• at 460/480 V at 50 °C rated value	100 hp			
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			
ATEX				
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX	SIL1			
PFHD with high demand rate according to IEC 61508 relating to ATEX	9E-6 1/h			
PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.09			
hardware fault tolerance according to IEC 61508 relating to ATEX	0			
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	3 a			
certificate of suitability				
• ATEX	Yes			
• IECEx	Yes			
• UKEX	Yes			
Approvals Certificates				
General Product Approval				



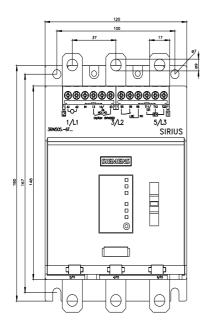
General Product Approval EMV

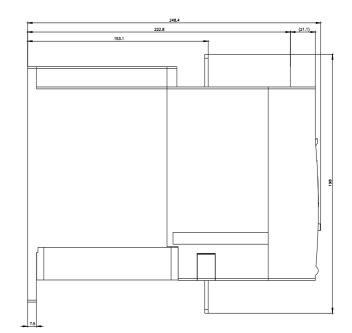
For use in hazardous locations

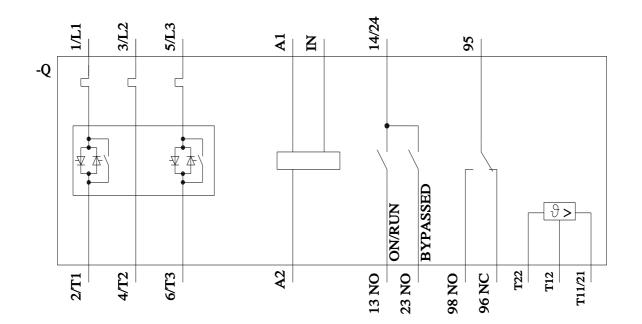
Test Certificates

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EHC	<u>KC</u>	IECEx	K ATEX	<u>Miscellaneous</u>	<u>Type Test Certific-</u> ates/Test Report	
Marine / Shipping			other	Environment		
ABS	Lloyds Register us	PRS	<u>Confirmation</u>	Siemens EcoTech	EPD	
Environment						
Further information						
Information on the pack https://support.industry.s	iemens.com/cs/ww/en/vi					
Information- and Down https://www.siemens.com	<u>n/ic10</u>	srocnures,)				
Industry Mall (Online ordering system) <u>https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5055-6TB14</u>						
Cax online generator <u>http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5055-6TB14</u> Service&Support (Manuals, Certificates, Characteristics, FAQs,)						
https://support.industry.s	iemens.com/cs/ww/en/ps	3RW5055-6TB14	le device circuit die me			
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5055-6TB14⟨=en						
Characteristic: Tripping characteristics, I ² t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5055-6TB14/char						
Characteristic: Installation altitude http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5055-6TB14&objecttype=14&gridview=view1						
Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917						







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