SIEMENS

Data sheet

3RW5072-6AB14



SIRIUS soft starter 200-480 V 210 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	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 	<u>3VA2440-7MN32-0AA0; Type of assignment 1, Iq = 65 kA</u>
 of circuit breaker usable at 500 V 	3VA2440-7MN32-0AA0; Type of assignment 1, Iq = 65 kA
 of the gG fuse usable up to 690 V 	2x3NA3354-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1 230-2; Type of coordination 2, Iq = 65 kA</u>
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE3 333; Type of coordination 2, Iq = 65 kA</u>
 of line contactor usable up to 480 V 	<u>3RT1064</u>
 of line contactor usable up to 690 V 	<u>3RT1064</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	

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
	6 kV
impulse voltage rated value	1 600 V
blocking voltage of the thyristor maximum	1
service factor	6 kV
surge voltage resistance rated value maximum permissible voltage for protective separation	0 KV
	600 V
between main and auxiliary circuit 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
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
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
voltage ramp	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	210 A
• at 50 °C rated value	186 A
at 60 °C rated value	170 A
operating voltage	200 490 1/
rated value	200 480 V -15 %
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	
 operating power for 3-phase motors at 230 V at 40 °C rated value 	55 kW
at 230 V at 40 °C rated value at 400 V at 40 °C rated value	55 KW 110 kW
Operating frequency 1 rated value	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	90 A
at rotary coding switch on switch position 1	98 A
at rotary coding switch on switch position 2 at rotary coding switch on switch position 3	106 A
 at rotary coding switch on switch position 5 at rotary coding switch on switch position 4 	114 A
 at rotary coding switch on switch position 4 at rotary coding switch on switch position 5 	122 A
at rotary coding switch on switch position 5 at rotary coding switch on switch position 6	130 A
- at rotary county switch on switch position o	

 at rotary coding switch on switch position 7 	138 A
 at rotary coding switch on switch position 8 	146 A
 at rotary coding switch on switch position 9 	154 A
 at rotary coding switch on switch position 10 	162 A
 at rotary coding switch on switch position 11 	170 A
 at rotary coding switch on switch position 12 	178 A
	186 A
 at rotary coding switch on switch position 13 	
• at rotary coding switch on switch position 14	194 A
 at rotary coding switch on switch position 15 	202 A
 at rotary coding switch on switch position 16 	210 A
• minimum	90 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 	16 W
 at 50 °C after startup 	13 W
 at 60 °C after startup 	11 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	2 237 W
• at 50 °C during startup	1 867 W
• at 60 °C during startup	1 637 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	Lissa sino, apping in the oroni of themail oronioud of the motor
	10
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	105 mA
inrush current by closing the bypass contacts maximum	2.2 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
	2
not parameterizable	
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	1 A
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
height	230 mm

resures spacing with adde by-side mounting mm • biockwards 0 mm • biockwards 00 mm • organds 100 mm • organds 100 mm • organds 5 mm • organds 5 mm • organds 5 mm • organds 7 mm • organds 5 mm • organds	width	160 mm
events	depth	282 mm
• exhwards0 mm• upwards100 mn• downwards75 mm• if the side5 mm• wight without packaging7.3 kgConsection TerminalValuation of the side	required spacing with side-by-side mounting	
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• dommarks75 mm• at the side67 mm• eight without packaging7.3 kgConnectors I terminalsbased connection• for main current circuitbased connection• for main current circuit55 mm, with connection cover 3RT1986.4EA1 maximum length 45 mm• prop of connectible conductor cores sections for main55 mm, with connection cover 3RT1986.4EA1 maximum length 45 mm• using the fort damping point ford55 mm, with connection cover 3RT1986.4EA1 maximum length 45 mm• using the fort damping point fordy stranded with core70 – 240 mm²• using the fort damping point fordy stranded with core70 – 240 mm²• using the fort damping point fordy stranded with core70 – 240 mm²• using the fort damping point findy stranded with core70 – 240 mm²• using the fort damping point stranded250500 kmil• using bith champing points findy stranded with corermin. 2x 60 mm², max. 2x 185 mm²• using bith champing points findy stranded with corermin. 2x 50 mm², max. 2x 240 mm²• using bith champing points findy stranded with corermin. 2x 50 mm², max. 2x 240 mm²• using bith champing points findy stranded with corermin. 2x 50 mm², max. 2x 240 mm²• using bith camping point findy stranded with corermin. 2x 50 mm², max. 2x 240 mm²• using bith camping point findy stranded with corermin. 2x 50 mm², max. 2x 240 mm²• using bith camping point findy stranded with corermin. 2x 50 mm², max. 2x 240 mm²• using bith camping point findy stranded with corermin. 2x 50 mm², max. 2x 240 mm²• for Connectable condu	backwards	0 mm
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inside the devices), 1M4	 during storage according to IEC 60721 	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get

 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	act. to IEC 00347-4-2. Class A
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 High Faults at 460/480 V according to UL 	Siemens type: 3VA54, max. 600 A; lq max = 65 kA
of the fuse	
 — usable for Standard Faults up to 575/600 V according to UL 	Type: Class L, max. 700 A; lq = 10 kA
— usable for High Faults up to 575/600 V according to UL	Type: Class L, max. 700 A; Iq = 100 kA
operating power [hp] for 3-phase motors	
• at 200/208 V at 50 °C rated value	60 hp
• at 220/230 V at 50 °C rated value	60 hp
 at 460/480 V at 50 °C rated value 	150 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	SIL1
to ATEX PFHD with high demand rate according to IEC 61508	9E-6 1/h
relating to ATEX	
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.09
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX	0.09
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	0.09
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX certificate of suitability	0.09 0 3 a
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	0.09
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX certificate of suitability • ATEX • IECEx	0.09 0 3 a Yes Yes
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX certificate of suitability • ATEX • IECEx • UKEX	0.09 0 3 a Yes
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX certificate of suitability • ATEX • IECEx	0.09 0 3 a Yes Yes
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX certificate of suitability • ATEX • IECEx • UKEX	0.09 0 3 a Yes Yes
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX certificate of suitability • ATEX • IECEx • UKEX Approvals Certificates General Product Approval	0.09 0 3 a Yes Yes Yes Yes
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX certificate of suitability • ATEX • IECEx • UKEX Approvals Certificates General Product Approval	0.09 0 3 a Yes Yes Yes Yes
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relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX certificate of suitability • ATEX • IECEx • UKEX Approvals Certificates General Product Approval	0.09 0 3 a Yes Yes Yes Yes
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX certificate of suitability	0.09 0 3 a Yes Yes Yes Yes Yes Yes Yes Yes
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX certificate of suitability	0.09 0 3 a Yes Yes Yes Confirmation C
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX certificate of suitability	0.09 0 3 a Yes Yes Yes Yes Yes Yes Yes Yes
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX certificate of suitability	0.09 0 3 a Yes Yes Yes Yes Yes Yes Yes Yes
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX T1 value for proof test interval or service life according to IEC 61508 relating to ATEX certificate of suitability	0.09 0 3 a Yes Yes Yes Yes Yes Yes Yes Yes

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Confirmation





Environmental Confirmations

Further information

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=3RW5072-6AB14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5072-6AB14

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RW5072-6AB14

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5072-6AB14&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

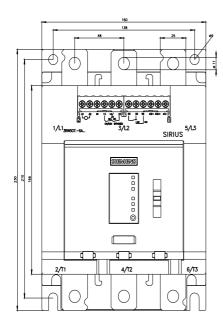
https://support.industry.siemens.com/cs/ww/en/ps/3RW5072-6AB14/char

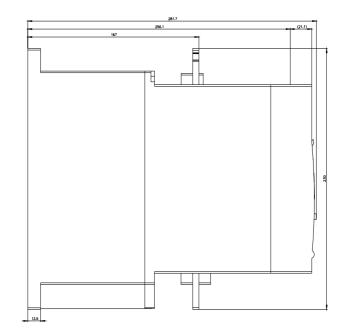
Characteristic: Installation altitude

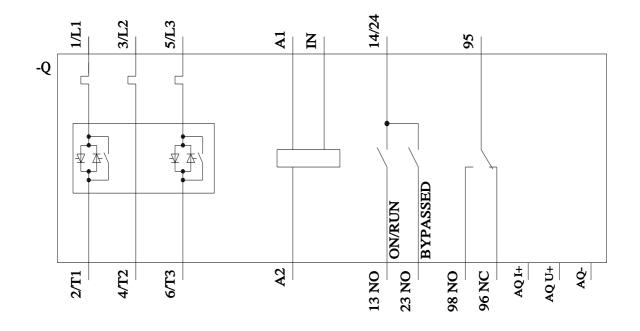
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5072-6AB14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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