SIEMENS

Data sheet

3RW5077-6AB14



SIRIUS soft starter 200-480 V 570 A, 110-250 V AC Screw terminals Analog output

product brand name				
product brand name	SIRIUS			
product category	Hybrid switching devices Soft starter			
product designation	3RW50			
product type designation manufacturer's article number	36,000			
of standard HMI module usable	3RW5980-0HS01			
	3RW5980-0HF00			
 of high feature HMI module usable of communication module PROFINET standard usable 	3RW5980-0CS00			
of communication module PROFIBUS usable	3RW5980-0CP00			
of communication module Modbus TCP usable	3RW5980-0CT00			
of communication module Modbus RTU usable	3RW5980-0CR00			
of communication module Ethernet/IP				
of communication module Etherney of circuit breaker usable at 400 V	<u>3RW5980-0CE00</u> 3VA2580-6HN32-0AA0; Type of assignment 1, lg = 65 kA			
of circuit breaker usable at 500 V	3VA2580-6HN32-0AA0; Type of assignment 1, Iq = 65 kA			
of the qG fuse usable up to 690 V	2x3NA3365-6; Type of coordination 1, Iq = 65 kA			
 of full range R fuse link for semiconductor protection 	3NE1 437-2; Type of coordination 2, Ig = 65 kA			
usable up to 690 V	<u>3112 1 437-2, Type of coordination 2, iq = 03 kA</u>			
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE3 340-8; Type of coordination 2, Iq = 65 kA			
 of line contactor usable up to 480 V 	3TF68			
 of line contactor usable up to 690 V 	3TF68			
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			

e for main current circuit	100 ms				
 for main current circuit for control circuit 	100 ms				
	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	1 600 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				
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	570 A				
• at 50 °C rated value	504 A				
• at 60 °C rated value	460 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	160 kW				
• at 400 V at 40 °C rated value					
Operating frequency 1 rated value	315 kW 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					
-	240 A				
 at rotary coding switch on switch position 1 at rotary coding switch on switch position 2 	240 A 262 A				
 at rotary coding switch on switch position 2 at rotary coding switch on switch position 2 					
 at rotary coding switch on switch position 3 at rotary coding switch on switch position 4 	284 A				
at rotary coding switch on switch position 4	306 A				
at rotary coding switch on switch position 5	328 A				
 at rotary coding switch on switch position 6 	350 A				

 at rotary coding switch on switch position 7 	372 A				
 at rotary coding switch on switch position 8 	394 A				
 at rotary coding switch on switch position 9 	416 A				
 at rotary coding switch on switch position 10 	438 A				
 at rotary coding switch on switch position 11 	450 A				
 at rotary coding switch on switch position 12 	460 A 482 A				
at rotary coding switch on switch position 13	504 A				
 at rotary coding switch on switch position 14 	526 A				
at rotary coding switch on switch position 15	548 A				
 at rotary coding switch on switch position 16 	570 A				
• minimum	240 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 	73 W				
 at 50 °C after startup 	57 W				
 at 60 °C after startup 	47 W				
power loss [W] at AC at current limitation 350 %					
 at 40 °C during startup 	7 019 W				
• at 50 °C during startup	5 801 W				
• at 60 °C during startup	5 048 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				
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 (lcu=1 kA), 6 A quick-acting fuse (lcu=1 kA), C1 miniature circuit breaker (lcu= 600 A), C6 miniature circuit breaker (lcu= 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	1A				
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				
• cloamwards 000 mm • cloamwards 75 mm • cloamwards 73 kg Connection 5 mm • or non current circuit bubbar connection • or non current circuit 50 mm • or non current circuit 50 mm • or non current circuit 50 mm • wraing the front diamping point sold 95 300 mm ² • using the front diamping point sold 95 300 mm ² • using the front diamping point sold 95 300 mm ² • using the front diamping point sold 70 240 mm ² • using the front diamping point sold 120 240 mm ² • using the front diamping point sold mm. 2x 70 mm ² max. 2x 240 mm ² • using the back diamping point sold mm. 2x 50 mm ² max. 2x 240 mm ² • using bub diamping points sold mm. 2x 50 mm ² max. 2x 240 mm ² • using bub diamping points finely stranded without core end processing mm. 2x 50 mm ² max. 2x 240 mm ² • using bub diamping points finely stranded without core end processing mm. 2x 50 mm ² max. 2x 240 mm ² • using bub back diamping point finely stranded without core end processing mm. 2x 50 mm ² max. 2x 240 mm ² <	forwards	10 mm			
• 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				
• Ibr eside 9 mm weight without packaging 7.3 kg Connectional Leminials 5000 methods Screew Loop Leminials 5000 methods with of connection bar maximum 5000 methods Vige of connection bar maximum 5000 mm² • using the front damping point sold 95	• upwards				
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• for main current circuit • for control circuit • for co					
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 for control circuit finely stranded with core end processing for AWG cables for control circuit solid for AWG cables for control circuit solid ix (2012, 2x (2014) wire length between soft starter and motor maximum at the digital inputs at AC maximum at the digital inputs at AC maximum 1000 m tightening torque for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals for auxi		$1x (0.5 \pm 4.0 \text{ mm}^2) 2x (0.5 \pm 2.5 \text{ mm}^2)$			
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terminals Image: Constraint of the second secon					
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• during storage according to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get					
inside the devices), 1M4	 during storage according to IEC 60721 	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get			

. .	according to IEC 60721		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)				
Environmental footprint	1						
Siemens Eco Profile (SI	EP)		Sieme	ens EcoTech			
EMC emitted interfere	nce		acc. to	DIEC 60947-4-2: Class A	Ą		
Communication/ Protoc	ol						
communication modu	le is supported						
 PROFINET stand 	dard		Yes				
EtherNet/IP			Yes				
Modbus RTU			Yes				
Modbus TCP			Yes				
PROFIBUS			Yes				
			res				
UL/CSA ratings				_		_	
manufacturer's article	number						
 of the fuse 							
 — usable for S according to U 	Standard Faults up to 575/ L	'600 V	Туре:	Type: Class L, max. 1600 A; Iq = 30 kA			
— usable for H UL	ligh Faults up to 575/600	V according to	Туре:	Class L, max. 1200 A; lo	q = 100 kA		
operating power [hp] f	for 3-phase motors						
• at 200/208 V at 5	i0 °C rated value		150 h	0			
• at 220/230 V at 5	i0 °C rated value		200 h	D			
• at 460/480 V at 5	i0 °C rated value		400 hp				
Electrical Safety							
,	the front according to I	EC 60529	IP00.	IP20 with cover			
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529		IP00; IP20 with cover finger-safe, for vertical contact from the front with cover					
ATEX		00323	inger				
Safety Integrity Level	(SIL) according to IEC 6	1508 relating	SIL1				
to ATEX PFHD with high demand rate according to IEC 61508 PFHD with high demand rate according t		9E-6 1/h					
relating to ATEX PFDavg with low demand rate according to IEC 61508 relating to ATEX			0.09				
relating to ATEX hardware fault tolerance according to IEC 61508 relating to ATEX			0				
T1 value for proof test IEC 61508 relating to A	t interval or service life a	according to	3 a				
certificate of suitabilit	у						
• ATEX			Yes				
• IECEx			Yes				
• UKEX			Yes				
Approvals Certificates			105				
	l						
General Product App	roval						
	UK CA	<u>Confirmatio</u>	<u>n</u>	CE EG-Konf.		EAC	
EMV	For use in hazardous	locations			Test Certificates	Marine / Shipping	
<u>KC</u>	K ATEX	IECEx		<u>Miscellaneous</u>	Type Test Certific- ates/Test Report	ABS	
Marine / Shipping		other		Environment			
Lloyd's Register uts	PRS	<u>Confirmatio</u>	<u>n</u>	EPD	Siemens EcoTech	Environmental Con- firmations	

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=3RW5077-6AB14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5077-6AB14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5077-6AB14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5077-6AB14&lang=en

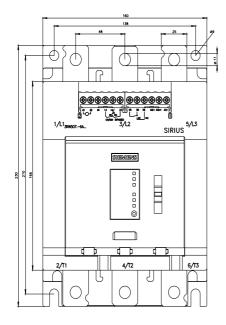
Characteristic: Tripping characteristics, I2t, Let-through current

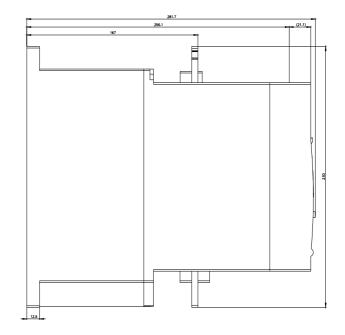
https://support.industry.siemens.com/cs/ww/en/ps/3RW5077-6AB14/char

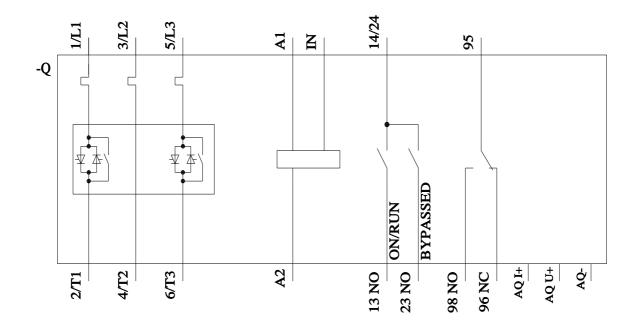
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5077-6AB14&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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







last modified:

4/19/2024 🖸