SIEMENS

Data sheet

3RW5076-6AB14



SIRIUS soft starter 200-480 V 470 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 	3VA2580-6HN32-0AA0; Type of assignment 1, Iq = 65 kA			
 of circuit breaker usable at 500 V 	3VA2580-6HN32-0AA0; Type of assignment 1, Iq = 65 kA			
 of the gG fuse usable up to 690 V 	2x3NA3365-6; Type of coordination 1, Iq = 65 kA			
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1 436-2; Type of coordination 2, Iq = 65 kA</u>			
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE3 340-8; Type of coordination 2, Iq = 65 kA</u>			
 of line contactor usable up to 480 V 	<u>3RT1076</u>			
 of line contactor usable up to 690 V 	<u>3RT1076</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 ourrant circuit	100 mg				
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	1 600 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	470 A				
at 50 °C rated value	416 A				
at 60 °C rated value	380 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	132 kW				
• at 400 V at 40 °C rated value	250 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	200 A				
 at rotary coding switch on switch position 1 at rotary coding switch on switch position 2 	200 A 218 A				
 at rotary coding switch on switch position 2 at rotary coding switch on switch position 3 	216 A 236 A				
	230 A 254 A				
at rotary coding switch on switch position 4					
at rotary coding switch on switch position 5	272 A				
 at rotary coding switch on switch position 6 	290 A				

 at rotary coding switch on switch position 7 	308 A				
 at rotary coding switch on switch position 8 	326 A				
 at rotary coding switch on switch position 9 	344 A				
 at rotary coding switch on switch position 10 	362 A				
 at rotary coding switch on switch position 11 	380 A				
at rotary coding switch on switch position 12	398 A				
at rotary coding switch on switch position 13	398 A 416 A				
 at rotary coding switch on switch position 14 	434 A				
	452 A				
at rotary coding switch on switch position 15					
 at rotary coding switch on switch position 16 	470 A				
• minimum	200 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	56 W				
 at 50 °C after startup 	44 W				
 at 60 °C after startup 	37 W				
power loss [W] at AC at current limitation 350 %					
• at 40 °C during startup	5 344 W				
• at 50 °C during startup	4 438 W				
 at 60 °C during startup 	3 876 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 (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					
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					
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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				

during transport a	ccording to IEC 60721		2K2 '	2C1 2S1 2M2 (max fall	height 0.3 m)		
Environmental footprint	during transport according to IEC 60721 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)						
Siemens Eco Profile (SE	:P)		Sieme	ens EcoTech			
EMC emitted interferen	•			o IEC 60947-4-2: Class /	٨		
Communication/ Protocol				0 1EC 00947-4-2. Class 7	7		
			_				
communication module PROFINET stands			Yes				
EtherNet/IP	aiu						
Modbus RTU				Yes			
Modbus TCP			Yes	Yes			
PROFIBUS			Yes				
UL/CSA ratings							
manufacturer's article	number		_				
of the fuse							
	tandard Faults up to 575 -	/600 V	Туре:	Class L, max. 1600 A; lo	q = 30 kA		
-	igh Faults up to 575/600	V according to	Туре:	Class L, max. 1200 A; lo	q = 100 kA		
operating power [hp] fo	or 3-phase motors						
• at 200/208 V at 50	-		150 h	р			
• at 220/230 V at 50			150 h				
• at 460/480 V at 50			350 h				
Electrical Safety							
protection class IP on	the front according to I	EC 60529	IP00;	IP20 with cover			
touch protection on the	e front according to IE	C 60529	finger	-safe, for vertical contact	t from the front with cover		
ATEX	-						
Safety Integrity Level (to ATEX	SIL) according to IEC 6	1508 relating	SIL1				
PFHD with high deman relating to ATEX	id rate according to IEC	C 61508	9E-6	1/h			
PFDavg with low dema relating to ATEX	nd rate according to IE	C 61508	0.09				
hardware fault tolerand ATEX	ce according to IEC 615	508 relating to	0				
T1 value for proof test IEC 61508 relating to A		according to	3 a				
certificate of suitability	,						
• ATEX			Yes				
• IECEx			Yes				
• UKEX			Yes				
Approvals Certificates							
General Product Appro	oval						
(\mathbf{w})	UK CA	CE		<u>Confirmation</u>	ա	EAC	
CCC	CA	EG-Konf.				LIIL	
EMV	For use in hazardous	locations			Test Certificates	Marine / Shipping	
<u>KC</u>	IECEx	(Ex)		Miscellaneous	<u>Type Test Certific-</u> ates/Test Report		
	IECEx	ATEX				ABS	
Marine / Shipping		other		Environment			
	<u> </u>	Confirmation	n			Environmental Con-	
Lloyds	(33)	Commadu	<u></u>		ciana U	firmations	
register				EDD	Siemens 💙 EcoTech		
LRS	PRS			EPU	LUTCH		

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=3RW5076-6AB14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5076-6AB14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5076-6AB14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5076-6AB14&lang=en

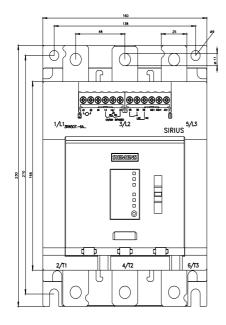
Characteristic: Tripping characteristics, I2t, Let-through current

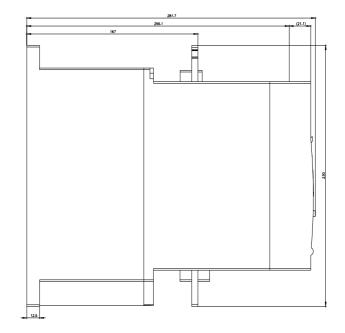
https://support.industry.siemens.com/cs/ww/en/ps/3RW5076-6AB14/char

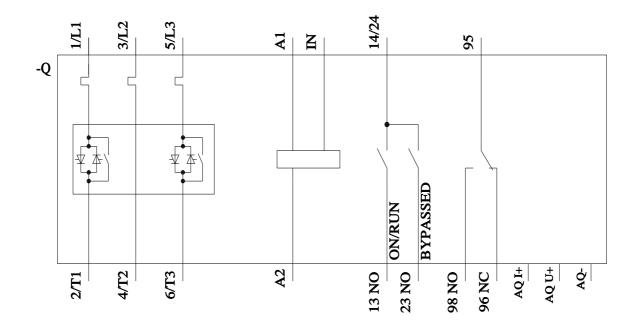
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5076-6AB14&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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







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