SIEMENS

Data sheet

3RW5075-6AB14



SIRIUS soft starter 200-480 V 370 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 334-2; Type of coordination 2, lq = 65 kA</u>			
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE3 336; Type of coordination 2, Iq = 65 kA</u>			
 of line contactor usable up to 480 V 	<u>3RT1075</u>			
 of line contactor usable up to 690 V 	<u>3RT1075</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				

a for main ourrant sizeit	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	270 A				
• at 40 °C rated value	370 A				
• at 50 °C rated value	328 A				
at 60 °C rated value	300 A				
operating voltage	200 400 \/				
• 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	110 kW				
• at 400 V at 40 °C rated value	200 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 	160 A				
 at rotary coding switch on switch position 2 	174 A				
 at rotary coding switch on switch position 3 	188 A				
 at rotary coding switch on switch position 4 	202 A				
• at rotary coding switch on switch position 5	216 A				
 at rotary coding switch on switch position 6 	230 A				
'					

 at rotary coding switch on switch position 7 	244 A			
 at rotary coding switch on switch position 8 	258 A			
 at rotary coding switch on switch position 9 	272 A			
 at rotary coding switch on switch position 10 	286 A			
 at rotary coding switch on switch position 11 	300 A			
 at rotary coding switch on switch position 12 	314 A			
at rotary coding switch on switch position 13				
 at rotary coding switch on switch position 14 	328 A 342 A			
at rotary coding switch on switch position 15	356 A			
	370 A			
 at rotary coding switch on switch position 16 				
• minimum	160 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	36 W			
• at 50 °C after startup	29 W			
at 60 °C after startup	24 W			
power loss [W] at AC at current limitation 350 %				
● at 40 °C during startup	3 726 W			
• at 50 °C during startup	3 124 W			
● at 60 °C during startup	2 748 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			
	2 2 normally-open contacts (NO) / 1 changeover contact (CO)			
digital output version number of analog outputs	1			
switching capacity current of the relay outputs	2.4			
• 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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inside the devices), 1M4	 during storage according to IEC 60721 	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get			

v .	during transport according to IEC 60721		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)				
nvironmental footprin							
Siemens Eco Profile (S	s Eco Profile (SEP)			ns EcoTech			
EMC emitted interference			acc. to	IEC 60947-4-2: Class	A		
communication/ Protoc	ol						
communication modu	le is supported						
 PROFINET stand 	dard		Yes				
 EtherNet/IP 			Yes				
 Modbus RTU 			Yes				
 Modbus TCP 			Yes				
 PROFIBUS 			Yes				
IL/CSA ratings							
manufacturer's article	number						
 of the fuse 							
	Standard Faults up to 57	5/600 V	Туре:	Class L, max. 1200 A;	lq = 18 kA		
-	High Faults up to 575/600) V according to	Type:	Class L, max. 1200 A;	lq = 100 kA		
operating power [hp]	for 3-phase motors						
• at 200/208 V at 5	•		100 hp)			
• at 220/230 V at 5			125 hp				
• at 460/480 V at 5			250 hp				
Electrical Safety							
	the front according to	IEC 60529	IP00·1	P20 with cover			
-	ne front according to IE				ct from the front with cover		
TEX			inger-				
	(SIL) according to IEC	61508 relating	SIL1				
	nd rate according to IE	C 61508	9E-6 1/h				
-	and rate according to I	EC 61508	0.09				
-	ice according to IEC 61	508 relating to	0				
T1 value for proof test IEC 61508 relating to	t interval or service life ATEX	according to	3 a				
certificate of suitabilit	у						
• ATEX			Yes				
• IECEx			Yes				
• UKEX			Yes				
pprovals Certificates							
General Product App	roval						
	UK CA	<u>Confirmatio</u>	<u>in</u>	CE EG-Konf.	(h)	EHC	
EMV	For use in hazardou	s locations			Test Certificates	Marine / Shipping	
<u>KC</u>	IECEx	(Ex ATEX		<u>Miscellaneous</u>	<u>Type Test Certific-</u> ates/Test Report	ABS	
Marine / Shipping		other		Environment			
		-					
Hovd's Register	٢	<u>Confirmatio</u>	n	FPD	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=3RW5075-6AB14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5075-6AB14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5075-6AB14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5075-6AB14&lang=en

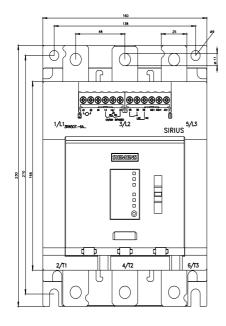
Characteristic: Tripping characteristics, I2t, Let-through current

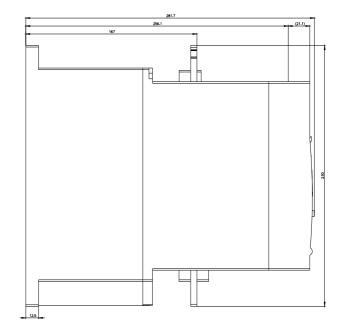
https://support.industry.siemens.com/cs/ww/en/ps/3RW5075-6AB14/char

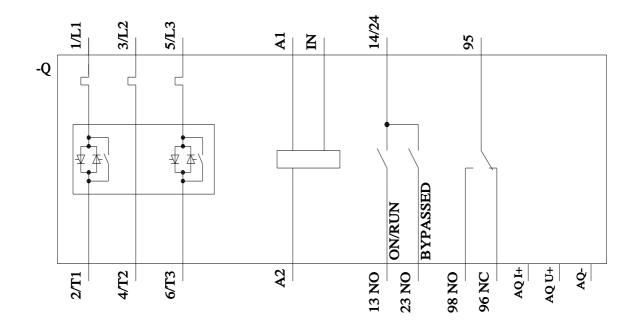
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5075-6AB14&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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







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