SIEMENS

Data sheet

3RW5073-6AB04



SIRIUS soft starter 200-480 V 250 A, 24 V AC/DC Screw terminals Analog output

Figure similar

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 	3VA2440-7MN32-0AA0; Type of assignment 1, Iq = 65 kA				
 of circuit breaker usable at 500 V 	<u>3VA2440-7MN32-0AA0; Type of assignment 1, lq = 65 kA</u>				
 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 331-0; Type of coordination 2, Iq = 65 kA</u>				
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE3 335; Type of coordination 2, Iq = 65 kA</u>				
 of line contactor usable up to 480 V 	<u>3RT1065</u>				
 of line contactor usable up to 690 V 	<u>3RT1065</u>				
Seneral technical data					
starting voltage [%]	30 100 %				
stopping voltage [%]	50 50 %				
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 %				
accuracy class acc. to IEC 61557-12	5 %				
certificate of suitability					
CE marking	Yes				
UL approval	Yes				
CSA approval	Yes				
product component is supported					
HMI-Standard	Yes				
HMI-High Feature	Yes				
product feature integrated bypass contact system	Yes				
number of controlled phases	2				

trip class	CLASS 10A / 10E (preset) / 20E; acc. to IEC 60947-4-2				
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					
impulse voltage rated value					
blocking voltage of the thyristor maximum	6 kV 1 600 V				
service factor	1				
	6 kV				
surge voltage resistance rated value	0 KV				
maximum permissible voltage for safe isolation	600.V				
between main and auxiliary circuit	600 V				
shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting				
vibration resistance	15 mm to 6 Hz; 2g to 500 Hz				
reference code acc. to IEC 81346-2	Q				
Substance Prohibitance (Date)	23.09.2019 00:00:00				
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 	250 A				
• at 50 °C rated value	220 A				
• at 60 °C rated value	200 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	75 kW				
• at 400 V at 40 °C rated value	132 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	100 A				
 at rotary coding switch on switch position 2 	110 A				
 at rotary coding switch on switch position 3 	120 A				

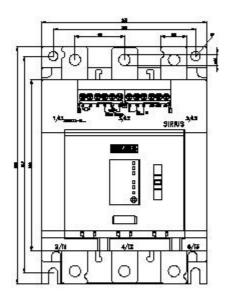
 at rotary coding switch on switch position 4 	130 A					
 at rotary coding switch on switch position 5 	140 A					
 at rotary coding switch on switch position 6 	150 A					
 at rotary coding switch on switch position 7 	160 A					
 at rotary coding switch on switch position 8 	170 A					
 at rotary coding switch on switch position 9 	180 A					
 at rotary coding switch on switch position 10 	190 A					
at rotary coding switch on switch position 11	200 A					
 at rotary coding switch on switch position 12 	210 A					
 at rotary coding switch on switch position 13 	220 A					
 at rotary coding switch on switch position 14 	230 A					
 at rotary coding switch on switch position 15 	240 A					
 at rotary coding switch on switch position 16 	250 A					
minimum	100 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	18 W					
• at 60 °C after startup	15 W					
power loss [W] at AC at current limitation 350 %						
• at 40 °C during startup	2 454 W					
• at 50 °C during startup	2 454 W 2 043 W					
• at 60 °C during startup	2 043 W 1 786 W					
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor					
Control circuit/ Control	Electronic, tripping in the event of thermal overload of the motor					
type of voltage of the control supply voltage	AC/DC					
control supply voltage at AC • at 50 Hz rated value	24 V					
at 50 Hz rated value at 60 Hz rated value	24 V 24 V					
	-20 %					
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 70					
relative positive tolerance of the control supply	20 %					
voltage at AC at 50 Hz						
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %					
relative positive tolerance of the control supply	20 %					
voltage at AC at 60 Hz						
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 voltage						
at DC rated value	24 V					
relative negative tolerance of the control supply	-20 %					
voltage at DC						
relative positive tolerance of the control supply voltage at DC	20 %					
control supply current in standby mode rated value	160 mA					
holding current in bypass operation rated value	490 mA					
locked-rotor current at close of bypass contact maximum	7.6 A					
inrush current peak at application of control supply voltage maximum	3.3 A					
duration of inrush current peak at application of control supply voltage	12.1 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					
Inputs/ Outputs	not part of scope of supply					

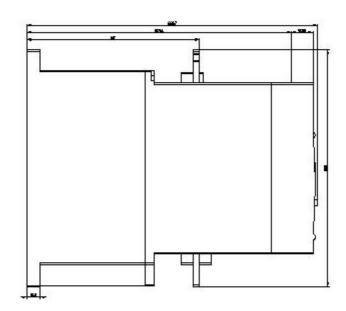
number of digital inputs	1
number of inputs for thermistor connection	0
number of digital outputs	3
not parameterizable	2
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	1
switching capacity current of the relay outputs	
• at AC-15 at 250 V rated 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
width	160 mm
depth	282 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	7.3 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	busbar connection
for control circuit	screw-type terminals
width of connection bar maximum	45 mm
 type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point solid 	95 300 mm²
 for main contacts for box terminal using the front clamping point finely stranded with core end processing 	70 240 mm²
 for main contacts for box terminal using the front clamping point finely stranded without core end processing 	70 240 mm²
 for main contacts for box terminal using the front clamping point stranded 	95 300 mm²
 at AWG cables for main contacts for box terminal using the front clamping point 	3/0 600 kcmil
 for main contacts for box terminal using the back clamping point solid 	120 240 mm²
• at AWG cables for main contacts for box terminal using the back clamping point	250 500 kcmil
 for main contacts for box terminal using both clamping points solid for main contacts for box terminal using both 	min. 2x 70 mm², max. 2x 240 mm²
 for main contacts for box terminal using both clamping points finely stranded with core end processing 	min. 2x 50 mm², max. 2x 185 mm²
 for main contacts for box terminal using both clamping points finely stranded without core end processing 	min. 2x 50 mm², max. 2x 185 mm²
 for main contacts for box terminal using both clamping points stranded 	min. 2x 70 mm², max. 2x 240 mm²
 for main contacts for box terminal using the back clamping point finely stranded with core end processing 	120 185 mm²
 for main contacts for box terminal using the back clamping point finely stranded without core end processing 	120 185 mm²
 for main contacts for box terminal using the back clamping point stranded 	120 240 mm²

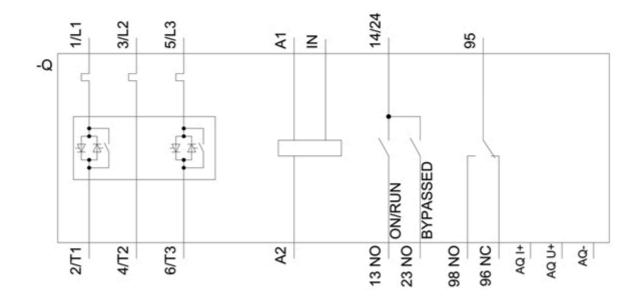
type of connectable conductor cross-sections					
 at AWG cables for main current circuit solid 	2/0 500 kcmil				
 for DIN cable lug for main contacts stranded 	50 240 mm²				
 for DIN cable lug for main contacts finely stranded 	70 240 mm²				
type of connectable conductor cross-sections					
 for control circuit solid 	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)				
 for control circuit finely stranded with core end 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)				
processing					
 at AWG cables for control circuit solid 	1x (20 12), 2x (20 14)				
wire length					
 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 	14 24 N·m				
 for auxiliary and control contacts with screw-type 	0.8 1.2 N·m				
terminals					
tightening torque [lbf·in]					
 for main contacts with screw-type terminals 	124 210 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 acc. 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 acc. to IEC 60721 	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must				
	not get inside the devices), 1M4				
• during transport acc. to IEC 60721	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)				
during transport acc. to IEC 60721 EMC emitted interference					
	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)				
EMC emitted interference	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)				
EMC emitted interference Communication/ Protocol	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)				
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes				
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes				
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes				
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes				
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes				
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes				
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes				
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes				
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for High Faults at 460/480 V according	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes				
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for High Faults at 460/480 V according to UL	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes				
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for High Faults at 460/480 V according to UL • of the fuse	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Siemens type: 3VA54, max. 600 A; lq max = 65 kA				
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for High Faults at 460/480 V according to UL • of the fuse — usable for Standard Faults up to 575/600 V	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes				
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for High Faults at 460/480 V according to UL • of the fuse — usable for Standard Faults up to 575/600 V according to UL	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Type: 3VA54, max. 600 A; lq max = 65 kA Type: Class L, max. 800 A; lq = 18 kA				
EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for High Faults at 460/480 V according to UL • of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Siemens type: 3VA54, max. 600 A; lq max = 65 kA				
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IECEx				Yes			
hardware fault tolera	ance acc. to IEC 6150	8 relating to	0				
PFDavg with low demand rate acc. to IEC 61508 relating to ATEX		0.09					
PFHD with high demand rate acc. to EN 62061 relating to ATEX		0.000009 1/h					
Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX		SIL1					
T1 value for proof te IEC 61508 relating to	est interval or service o ATEX	life acc. to	3 у				
Certificates/ approval	s						
General Product Ap	proval				For use in hazardou	s locations	
(SP)		(h)		EAC	IECEx IECEx	K ATEX	
Declaration of Conf	ormity	Test Certifica	ates	other			
CE EG-Konf.	<u>Miscellaneous</u>	<u>Type Test Ce</u> ates/Test Re		<u>Confirmation</u>			
Further information							
Further information 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=3RW5073-6AB04 Cax online generator							
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5073-6AB04							
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW5073-6AB04							
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5073-6AB04⟨=en							
Characteristic: Tripping characteristics, I ² t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5073-6AB04/char							
Characteristic: Installation altitude							
	http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5073-6AB04&objecttype=14&gridview=view1						
Oliveral effects Teach fear							

Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917







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