SIEMENS

Data sheet 3RW5075-6TB14

SIRIUS



SIRIUS soft starter 200-480 V 370 A, 110-250 V AC Screw terminals Thermistor input



product category	Hybrid switching devices	
product designation	Soft starter	
product type designation	3RW50	
manufacturer's article number		
 of standard HMI module usable 	3RW5980-0HS01	
 of high feature HMI module usable 	3RW5980-0HF00	
 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 	3RW5980-0CE00	
 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 	3NE1 334-2; Type of coordination 2, Iq = 65 kA	
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE3 336; Type of coordination 2, Iq = 65 kA	
 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		

Insulation vottage rated value degree of politition Impulse vottage rated value Impulse vottage rated value Impulse vottage resistance rated value Impulse vottage for protective separation Impulse vottage for protection Impulse vottage for prote	for main current circuit	100 ms		
Institution voltage rated value 600 V				
segree of pollution mpulse votinge rated value blocking votage of the thyristor maximum service factor 1 600 V maximum permissible votage for protective separation between main and quality over the control separation of the control separation and provided the control separation and the control separation of the control separation and separation				
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• ramp-up (soft starting) • ramp-down (soft stop) • Soft Torque • adjustable current limitation • pump ramp down • pump ramp down • resided device protection • motor overload protection • evaluation of thermistor motor protection • auto-RESET • remote reset • remote reset • communication function • operating measured value display • reror logbook • via software parameterizable • via software configurable • PROFlenergy • vias oftware configurable • PROFlenergy • vias oftware configurable • PROFlenergy • vias oftware configurable • randous current • at 40 °C rated value • at 50 °C rated value • at 50 °C rated value • at 20 V at 40 °C rated value • rated	product function			
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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 adjustable motor current	• at 230 V at 40 °C rated value	110 kW		
Operating frequency 2 rated value 60 Hz relative negative tolerance of the operating frequency -10 % relative positive tolerance of the operating frequency adjustable motor current	at 400 V at 40 °C rated value	200 kW		
relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency adjustable motor current	Operating frequency 1 rated value	50 Hz		
relative positive tolerance of the operating frequency adjustable motor current	Operating frequency 2 rated value	60 Hz		
adjustable motor current	relative negative tolerance of the operating frequency	-10 %		
	relative positive tolerance of the operating frequency	10 %		
• at rotary coding switch on switch position 1 160 A	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	
	272 A	
 at rotary coding switch on switch position 9 		
 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 	328 A	
 at rotary coding switch on switch position 14 	342 A	
 at rotary coding switch on switch position 15 	356 A	
 at rotary coding switch on switch position 16 	370 A	
• 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	
Inputs/ Outputs	scope of supply	
· · · · · · · · · · · · · · · · · · ·	1	
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	0	
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	

estallation/ 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	
onnections/ Terminals		
type of electrical connection		
for main current circuit	busbar connection	
for control circuit	screw-type terminals	
width of connection bar maximum	35 mm; with connection cover 3RT1966-4EA1 maximum length 45 mm	
wire length for thermistor connection	55, War some said sever out 1000 4EAT maximum longer 40 mm	
with conductor cross-section = 0.5 mm² maximum	50 m	
with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum	150 m	
with conductor cross-section = 1.5 mm maximum with conductor cross-section = 2.5 mm² maximum	250 m	
type of connectable conductor cross-sections for main	200 111	
contacts for box terminal		
using the front clamping point solid	95 300 mm²	
using the front clamping point finely stranded with core end processing	70 240 mm²	
using the front clamping point finely stranded without core end processing	70 240 mm²	
 using the front clamping point stranded 	95 300 mm²	
 using the back clamping point solid 	120 240 mm²	
 r box terminal using the back clamping point 	250 500 kcmil	
 using both clamping points solid 	min. 2x 70 mm², max. 2x 240 mm²	
 using both clamping points finely stranded with core end processing 	min. 2x 50 mm², max. 2x 185 mm²	
 using both clamping points finely stranded without core end processing 	min. 2x 50 mm², max. 2x 185 mm²	
 using both clamping points stranded 	min. 2x 70 mm², max. 2x 240 mm²	
 using the back clamping point finely stranded with core end processing 	120 185 mm²	
 using the back clamping point finely stranded without core end processing 	120 185 mm²	
using the back clamping point stranded	120 240 mm²	
type of connectable conductor cross-sections		
 for 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 processing	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	
for 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 terminals	0.8 1.2 N·m	
tightening torque [lbf·in]		
• for main contacts with screw-type terminals	124 210 lbf·in	

Ambient conditions		
installation altitude at height above sea level maximum	5 000 m; derating as of 1000 m, see Manual	
<u> </u>	5 000 III, derating as of 1000 III, see Mandal	
ambient temperature	25 L60 °C: Places cheep a denoting at temporatures of 40 °C or above	
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 according 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 according to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4	
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		
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 the fuse		
 usable for Standard Faults up to 575/600 V according to UL 	Type: Class L, max. 1200 A; Iq = 18 kA	
— usable for High Faults up to 575/600 V according to UL	Type: Class L, max. 1200 A; Iq = 100 kA	
operating power [hp] for 3-phase motors		
 at 200/208 V at 50 °C rated value 	100 hp	
• at 220/230 V at 50 °C rated value	125 hp	
• at 460/480 V at 50 °C rated value	250 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 to ATEX	SIL1	
PFHD with high demand rate according to IEC 61508 relating to ATEX	9E-6 1/h	
PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.09	
hardware fault tolerance according to IEC 61508 relating to ATEX	0	
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	3 a	
certificate of suitability		
• ATEX	Yes	
• IECEx	Yes	
• UKEX	Yes	
Approvals Certificates		
General Product Approval		

General Product Approval



Confirmation









EMV	For use in hazardous locations	Test Certificates	Marine / Shipping
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Miscellaneous

Type Test Certificates/Test Report



Marine / Shipping

other

Environment





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=3RW5075-6TB14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5075-6TB14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5075-6TB14

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5075-6TB14&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

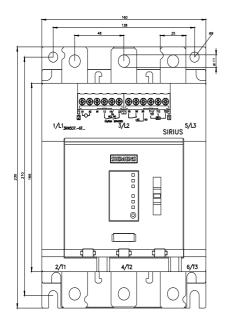
https://support.industry.siemens.com/cs/ww/en/ps/3RW5075-6TB14/char

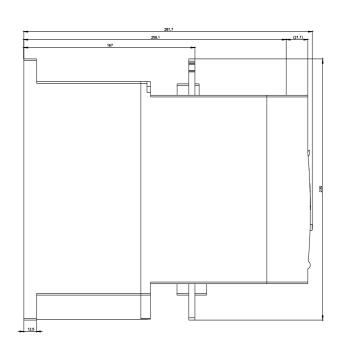
Characteristic: Installation altitude

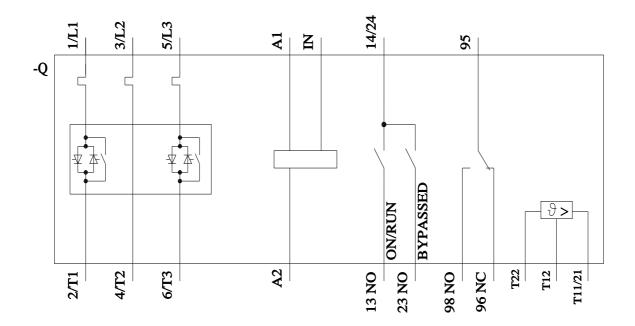
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5075-6TB14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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