SIEMENS

Data sheet

3RW5073-2TB15



SIRIUS soft starter 200-600 V 250 A, 110-250 V AC Spring-loaded terminals Thermistor input

Figure	similar
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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, Iq = 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>
General 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 classCLASS 10A / 10E (preset) / 20E; and: to IEC 60947-4-2• for main current drout100 ms• for main current drout100 ms• for control crout000 Vdegree of pollution8, acc. to IEC 60947.4-2impaise voltage rated value6 kVbicking voltage of the tryistor maximum1000 Vsurge voltage rated value6 kVsurge voltage rated value6 kVmaximum permissible voltage of set footalino1000 V• between main and auxiliary circuit6 kV• between main and surge voltage15 g/ 11 ms, from 12 g/ 11 ms with potential contact lifting• between main and surger voltage rate value15 g/ 11 ms, from 12 g/ 11 ms with potential contact lifting• between main and surger voltage rate value15 g/ 11 ms, from 12 g/ 11 ms with potential contact lifting• between main and surger voltage rate value15 g/ 11 ms, from 12 g/ 11 ms with potential contact lifting• between main and surger voltage rate value15 g/ 11 ms, from 12 g/ 11 ms with potential contact lifting• between main and surger voltage20 g/ 11 ms, from 12 g/ 11 ms with potential contact lifting• between main and surger voltage15 g/ 11 ms, from 12 g/ 11 ms with potential contact lifting• between main and surger voltage15 g/ 11 ms, from 12 g/ 11 ms, from 12 g/ 11 ms with potential contact lifting• vistage rate voltage control15 g/ 11 ms, from 12 g/ 1		
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• PROFlenergyYes; in connection with the PROFINET Standard communication module• voltage rampYes• torque controlNo• analog outputNoPower Electronics• perational current250 A• at 40 °C rated value220 A• at 60 °C rated value200 A• at 60 °C rated value15 %• at 60 °C rated value10 %• at 200 V at 40 °C rated value132 kW• at 230 V at 40 °C rated value132 kW• at 500 V at 40 °C rated value50 Hz• at 500 V at 40 °C rated value100 k• at 500 V at 40 °C rated value100 %• at 500 V at 40 °C rated value100 %• at 500 V at 40 °C rated value100 %• at 500 V at 40 °C rated value100 %	 via software parameterizable 	No
module• voltage rampYes• torque controlNo• analog outputNoPower Electronicsoperational current250 A• at 40 °C rated value250 A• at 60 °C rated value200 600 V• rated value10 %• crated value10 %• at 200 V at 40 °C rated value10 %• at 200 V at 40 °C rated value132 kW• at 500 V at 40 °C rated value60 Hz• at 500 V at 40 °C rated value60 Hz• at 200 V at 40 °C rated value10 %• at 200 V at 40 °C rated value100 %	 via software configurable 	Yes
• torque controlNo• analog outputNoPower Electronics• at 40 °C rated value250 A• at 40 °C rated value220 A• at 50 °C rated value200 A• at 60 °C rated value200 A• operating voltage200 A• rated value200 600 V• rated value200 600 Vrelative negative tolerance of the operating voltage-15 %• at 230 V at 40 °C rated value10 %• at 230 V at 40 °C rated value50 Hz• at 230 V at 40 °C rated value132 kW• at 230 V at 40 °C rated value50 Hz• operating frequency 1 rated value60 Hz• preative negative tolerance of the operating frequency10 %• operating frequency 2 rated value10 %• at 200 V at 40 °C rated value10 %• at 500 V at 40 °C rated value10 %• at 500 V at 40 °C rated value10 %• at 500 V at 40 °C rated value10 %• at 500 V at 40 °C rated value10 %• at 500 V at 40 °C rated value10 %• at 500 V at 40 °C rated value10 %• at 500 V at 40 °C rated value10 %• at 500 V at 40 °C rated value10 %• at 500 V at 40 °C rated value10 %• at 500 V at 40 °C rated value10 %• at 500 V at 40 °C rated value10 %• at 500 V at 40 °C rated value10 %• at 500 V at 50 °C rated value100 A	PROFlenergy	· ·
• analog outputNoPower Electronicsoperational current250 A• at 40 °C rated value200 A• at 50 °C rated value200 A• at 60 °C rated value200 Aoperating voltage200 600 V• rated value200 600 Vrelative negative tolerance of the operating voltage-15 %• at 230 V at 40 °C rated value10 %operating power for 3-phase motors-15 kW• at 230 V at 40 °C rated value132 kW• at 400 V at 40 °C rated value60 HzOperating frequency 1 rated value50 HzOperating frequency 2 rated value60 Hzrelative negative tolerance of the operating frequency-10 %etative negative tolerance of the operating frequency-10 %operating frequency 2 rated value60 Hzoperating frequency 5 rated value10 %operating frequency 6 rated value-10 %operating frequency 7 rated value10 %operating frequency 7 rated value10 %operating frequency 7 rated value10 %relative positive tolerance of the operating frequency-10 %relative negative tolerance of the operating frequency-10 %relative negative tolerance of the operating frequency10 %adjustable motor current-10 %• at rotary coding switch on switch position 1100 A	 voltage ramp 	Yes
Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value • rated value 200 600 V relative negative tolerance of the operating voltage • at 230 V at 40 °C rated value • at 230 V at 40 °C rated value • at 300 V crated value • at 400 V at 40 °C rated value • at 400 V at 40 °C rated value • at 500 V at 40 °C rated value • at 500 V at 40 °C rated value • at 500 V at 40 °C rated value 50 Hz Operating frequency 1 rated value 50 Hz Operating frequency 2 rated value 60 Hz relative positive 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	torque control	No
operational current250 A• at 40 °C rated value200 A• at 50 °C rated value200 A• at 60 °C rated value200 Aoperating voltage200 600 V• rated value200 600 Vrelative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage10 %operating power for 3-phase motors-• at 230 V at 40 °C rated value75 kW• at 400 V at 40 °C rated value132 kW• at 500 V at 40 °C rated value60 HzOperating frequency 1 rated value60 Hzrelative negative tolerance of the operating frequency-10 %relative positive tolerance of the operating frequency10 %	 analog output 	No
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• at 40 °C rated value250 Å• at 50 °C rated value220 Å• at 60 °C rated value200 Åoperating voltage200 600 V• rated value200 600 Vrelative negative tolerance of the operating voltage15 %relative positive tolerance of the operating voltage10 %operating power for 3-phase motors	operational current	
• at 50 °C rated value220 A• at 60 °C rated value200 Aoperating voltage200 600 V• rated value200 600 Vrelative negative tolerance of the operating voltage-15 %• at 230 V at 40 °C rated value10 %• at 230 V at 40 °C rated value75 kW• at 400 V at 40 °C rated value160 kW• operating frequency 1 rated value50 Hz• operating frequency 2 rated value60 Hz• at jositive tolerance of the operating frequency-10 %• at rotary coding switch on switch position 1100 A	•	250 A
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• rated value200 600 Vrelative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage10 %operating power for 3-phase motors-• at 230 V at 40 °C rated value75 kW• at 400 V at 40 °C rated value132 kW• at 500 V at 40 °C rated value50 HzOperating frequency 1 rated value60 Hzrelative negative tolerance of the operating frequency-10 %relative negative tolerance of the operating frequency100 A	operating voltage	
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• at 500 V at 40 °C rated value160 kWOperating frequency 1 rated value50 HzOperating frequency 2 rated value60 Hzrelative negative tolerance of the operating frequency-10 %relative positive tolerance of the operating frequency10 %adjustable motor current		
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adjustable motor current • at rotary coding switch on switch position 1 100 A		
• at rotary coding switch on switch position 1 100 A		
	-	100 A
• at rotary county switch on switch position 2 TTU A		
	• at rotary county switch on switch position 2	

 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 12 at rotary coding switch on switch position 13 	220 A
	230 A
at rotary coding switch on switch position 14	
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 	2 043 W
at 60 °C during startup	1 786 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	-10 %
voltage frequency	
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
locked-rotor current at close of bypass contact 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 inputs for thermistor connection	
	1; Type A PTC or Klixon / Thermoclick
number of digital outputs	1; Type A PTC or Klixon / Thermoclick 3
•	
number of digital outputs	3

switching capacity current of the relay outputs • at AC-15 at 250 V rated value	0 3 A 1 A
 at AC-15 at 250 V rated value at DC-13 at 24 V rated value 	
• at DC-13 at 24 V rated value	
	1 Δ
Installation/ mounting/ dimensions	
	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	spring-loaded terminals
width of connection bar maximum	45 mm
wire length for thermistor connection	
 with conductor cross-section = 0.5 mm² maximum 	50 m
 with conductor cross-section = 1.5 mm² maximum 	150 m
• with conductor cross-section = 2.5 mm ² maximum	250 m
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
clamping points solid	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 type of connectable conductor cross-sections	120 240 mm ²

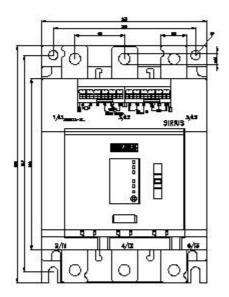
at AWG cables for main current circuit solid	2/0 500 kcmil
for DIN cable lug for main contacts stranded	50 240 mm ²
for DIN cable lug for main contacts finely stranded	70 240 mm²
type of connectable conductor cross-sections	0(0.05 4.5 mm²)
for control circuit solid	2x (0.25 1.5 mm ²)
 for control circuit finely stranded with core end processing 	2x (0.25 1.5 mm²)
 at AWG cables for control circuit solid 	2x (24 16)
 at AWG cables for control circuit finely stranded with core end processing 	2x (24 16)
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
 for auxiliary and control contacts with screw-type terminals 	7 10.3 lbf·in
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)
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 circuit breaker 	
 — usable for High Faults at 460/480 V according to UL 	Siemens type: 3VA54, max. 600 A; Iq max = 65 kA
 of the fuse 	
 — usable for Standard Faults up to 575/600 V according to UL 	Type: Class L, max. 800 A; Iq = 18 kA
 — usable for High Faults up to 575/600 V according to UL 	Type: Class L, max. 800 A; lq = 100 kA
operating power [hp] for 3-phase motors	
• at 200/208 V at 50 °C rated value	60 hp
• at 220/230 V at 50 °C rated value	75 hp
• at 460/480 V at 50 °C rated value	150 hp
• at 575/600 V at 50 °C rated value	200 hp
Safety related data	
protection class IP on the front acc. to IEC 60529	IP00; IP20 with cover
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front with cover
ATEX	

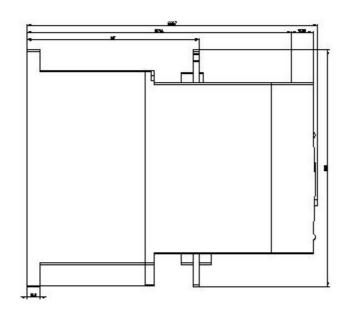
certificate of suitabi	ility				
 ATEX 			Yes		
• IECEx			Yes		
hardware fault toler	ance acc. to IEC 6150	8 relating to	0		
PFDavg with low de relating to ATEX	emand rate acc. to IEC	61508	0.09		
PFHD with high den to ATEX	nand rate acc. to EN 6	2061 relating	0.000009 1/h		
Safety Integrity Leve to ATEX	el (SIL) acc. to IEC 61	508 relating	SIL1		
T1 value for proof to IEC 61508 relating to	est interval or service o ATEX	life acc. to	3 у		
Certificates/ approval	ls				
General Product Ap	pproval			For use in hazar	rdous locations
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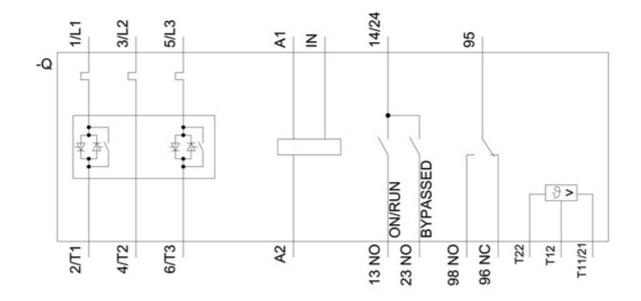
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5073-2TB15/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5073-2TB15&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917







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