SIEMENS

Data sheet 3RW5056-6TB05



SIRIUS soft starter 200-600 V 171 A, 24 V AC/DC Screw terminals Thermistor input

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 	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 	3VA2220-7MN32-0AA0; Type of assignment 1, Iq = 20 kA
 of circuit breaker usable at 500 V 	3VA2220-7MN32-0AA0; Type of assignment 1, Iq = 20 kA
 of the gG fuse usable up to 690 V 	3NA3244-6: Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1 230-0; Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE3 335: Type of coordination 2, Iq = 65 kA
 of line contactor usable up to 480 V 	<u>3RT1056</u>
 of line contactor usable up to 690 V 	<u>3RT1064</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
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

*increarial across floatishor voltage rated value degree of pollution 3, acc, to IEC 00047-4-2 minuster voltage rated value blocking voltage of the thyristor maximum 1 800 V service factor 1 1 surge voltage resistance rated value 8 kV maximum permissible voltage for protective separation + between main and audilary cricuit + shock resistance 1 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration resistance 1 15 mm to 6 Hz. 2g to 500 Hz vibration resistance ording to IEC 60047-42 AG-53a reference code according to IEC 61346-2 0 0 Substance Prohibitance (Date) Product function * amp-up (soft starting) * yes - soft Torque * adjustable current limitation * pump ramp down * intrinsic device protection * evaluation of thermistor motor protection * under-RESET * yes * amanum RESET * yes * amanum RESET * yes * amanum RESET * yes * communication function * permit greater value display * or large place * via software parameterizable * via softwar	e for control circuit	100 mg		
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• at rotary coding switch on switch position 3 93 A				
• at rotary coding switch on switch position 4 99 A				
• at rotary coding switch on switch position 5				
• at rotary coding switch on switch position 6		111 A		
• at rotary coding switch on switch position 7 117 A	 at rotary coding switch on switch position 7 	117 A		

 at rotary coding switch on switch position 8 	123 A
 at rotary coding switch on switch position 9 	129 A
 at rotary coding switch on switch position 10 	135 A
 at rotary coding switch on switch position 11 	141 A
 at rotary coding switch on switch position 12 	147 A
at rotary coding switch on switch position 13	153 A
 at rotary coding switch on switch position 14 	159 A
at rotary coding switch on switch position 15	165 A
at rotary coding switch on switch position 16	171 A
minimum	81 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	10 70, Notative to sittaties settable to
	29 W
• at 40 °C after startup	
• at 50 °C after startup	23 W
• at 60 °C after startup	20 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	1 751 W
at 50 °C during startup	1 478 W
at 60 °C during startup	1 308 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/DC
control supply voltage at AC	
• at 50 Hz rated value	24 V
• at 60 Hz rated value	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
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 % 10 %
relative positive tolerance of the control supply voltage	
relative positive tolerance of the control supply voltage frequency	
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relative positive tolerance of the control supply voltage frequency control supply voltage • at DC rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC	10 % 24 V -20 % 20 %
relative positive tolerance of the control supply voltage frequency control supply voltage • at DC rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value	10 % 24 V -20 % 20 % 160 mA
relative positive tolerance of the control supply voltage frequency control supply voltage • at DC rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value	10 % 24 V -20 % 20 %
relative positive tolerance of the control supply voltage frequency control supply voltage • at DC rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value	10 % 24 V -20 % 20 % 160 mA
relative positive tolerance of the control supply voltage frequency control supply voltage • at DC rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value	10 % 24 V -20 % 20 % 160 mA 360 mA
relative positive tolerance of the control supply voltage frequency control supply voltage • at DC rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage	10 % 24 V -20 % 20 % 160 mA 360 mA 7.6 A
relative positive tolerance of the control supply voltage frequency control supply voltage • at DC rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply	10 % 24 V -20 % 20 % 160 mA 360 mA 7.6 A 3.3 A
relative positive tolerance of the control supply voltage frequency control supply voltage • at DC rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage	10 % 24 V -20 % 20 % 160 mA 360 mA 7.6 A 3.3 A 12.1 ms Varistor 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
relative positive tolerance of the control supply voltage frequency control supply voltage • at DC rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit	10 % 24 V -20 % 20 % 160 mA 360 mA 7.6 A 3.3 A 12.1 ms Varistor 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit
relative positive tolerance of the control supply voltage frequency control supply voltage • at DC rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit	10 % 24 V -20 % 20 % 160 mA 360 mA 7.6 A 3.3 A 12.1 ms Varistor 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
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relative positive tolerance of the control supply voltage frequency control supply voltage • at DC rated value relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit Inputs/ Outputs number of digital outputs • not parameterizable digital output version number of analog outputs	24 V -20 % 20 % 160 mA 360 mA 7.6 A 3.3 A 12.1 ms Varistor 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
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nstallation/ mounting/ dimensions		
mounting position	with vertical mounting surface +/-90 $^\circ$ rotatable, with vertical mounting surface +/- 22.5 $^\circ$ tiltable to the front and back	
fastening method	screw fixing	
height	198 mm	
width	120 mm	
depth	249 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	5.2 kg	
Connections/ Terminals	0.2 ng	
type of electrical connection		
• for main current circuit	busbar connection	
for control circuit		
	screw-type terminals	
width of connection bar maximum	25 mm	
wire length for thermistor connection	50	
• 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 mm² maximum	250 m	
type of connectable conductor cross-sections		
for main contacts for box terminal using the front clamping point solid	16 120 mm ²	
for main contacts for box terminal using the front clamping point finely stranded with core end processing	16 120 mm ²	
for main contacts for box terminal using the front clamping point finely stranded without core end processing	10 120 mm ²	
for main contacts for box terminal using the front clamping point stranded	16 70 mm²	
for main contacts for box terminal using the back clamping point solid	16 120 mm ²	
for AWG cables for main contacts for box terminal using the back clamping point	6 250 kcmil	
for main contacts for box terminal using both clamping points solid	max. 1x 95 mm², 1x 120 mm² max. 1x 95 mm², 1x 120 mm² max. 1x 95 mm², 1x 120 mm²	
for main contacts for box terminal using both clamping points finely stranded with core end processing		
for main contacts for box terminal using both clamping points finely stranded without core end processing		
for main contacts for box terminal using both clamping points stranded	max. 2x 120 mm²	
for main contacts for box terminal using the back clamping point finely stranded with core end processing	16 120 mm ²	
for main contacts for box terminal using the back clamping point finely stranded without core end processing	10 120 mm ²	
for main contacts for box terminal using the back clamping point stranded	16 120 mm²	
type of connectable conductor cross-sections		
for AWG cables for main current circuit solid	4 250 kcmil	
 for DIN cable lug for main contacts stranded 	16 95 mm²	
for DIN cable lug for main contacts finely stranded	25 120 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	10 14 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 	89 124 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 according to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S (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 g inside the devices), 1M4		
 during transport according 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		
	1 es		
UL/CSA ratings			
manufacturer's article number			
of circuit breaker			
 usable for Standard Faults at 460/480 V according to UL 	Siemens type: 3VA5225, max. 250 A; Iq = 10 kA		
 usable for High Faults at 460/480 V according to UL 	Siemens type: 3VA52, max. 250 A; Iq max = 65 kA		
of the fuse			
 usable for Standard Faults up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 400 A; Iq = 10 kA		
 usable for High Faults up to 575/600 V according to UL 	Type: Class J, max. 350 A; Iq = 100 kA		
operating power [hp] for 3-phase motors			
 at 200/208 V at 50 °C rated value 	50 hp		
• at 220/230 V at 50 °C rated value	50 hp		
 at 460/480 V at 50 °C rated value 	100 hp		
 at 575/600 V at 50 °C rated value 	150 hp		
Safety related data			
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	inigor care, for vortical contact from the front with cover		
certificate of suitability			
•	Voo		
• ATEX	Yes		
• IECEX	Yes		
• UKEX	Yes		
hardware fault tolerance according to IEC 61508 relating to ATEX	0		
PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.09		
PFHD with high demand rate according to EN 62061 relating to ATEX	9E-6 1/h		
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX	SIL1		
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	3 a		
Certificates/ approvals			
General Product Approval		For use in hazard- ous locations	





Confirmation







For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping



Explosion Protection Certificate





Type Test Certificates/Test Report



Marine / Shipping

other





Confirmation

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RW5056-6TB05

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5056-6TB05

 ${\bf Service \& Support\ (Manuals,\ Certificates,\ Characteristics,\ FAQs,...)}$

https://support.industry.siemens.com/cs/ww/en/ps/3RW5056-6TB05

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5056-6TB05&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

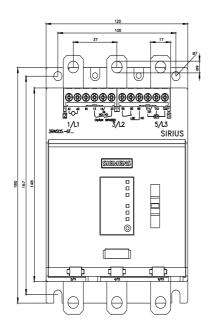
https://support.industry.siemens.com/cs/ww/en/ps/3RW5056-6TB05/char

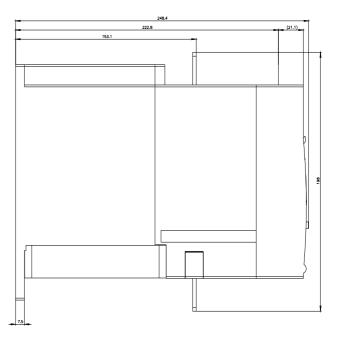
Characteristic: Installation altitude

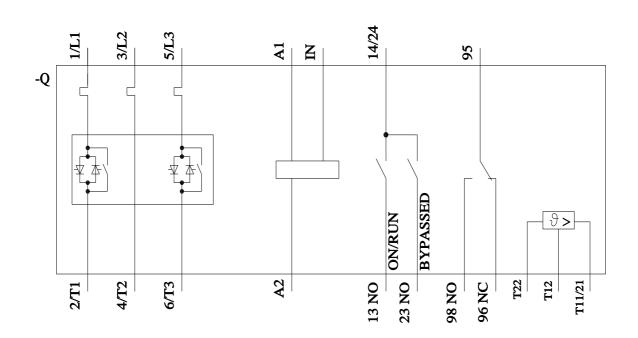
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5056-6TB05&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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