SIEMENS

Data sheet

3RW5055-2AB15



SIRIUS soft starter 200-600 V 143 A, 110-250 V AC Spring-loaded terminals Analog output

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starting voltage [%]30 100 %stopping voltage [%]50 %; non-adjustablestart-up ramp time of soft starter0 20 sramp-down time of soft starter0 20 scurrent limiting value [%] adjustable130 700 %certificate of suitabilityYes• CE markingYes• UL approvalYes• CSA approvalYesproduct componentYes• HMI-High FeatureNo• is supported HMI-StandardYes• product feature integrated bypass contact systemYesproduct feature integrate		
product designation Soft starter product type designation 3RW50 manufacture?stricle number 3RW580-0HS01 • of standard HMI module usable 3RW5880-0HS01 • of ommunication module PROFINET standard usable 3RW5880-0CE00 • of ommunication module PROFINET standard usable 3RW5880-0CE00 • of ommunication module ROPRIBUS usable 3RW5880-0CE00 • of communication module Enteret/IP 3RW5880-0CE00 • of oricuit breaker usable at 400 V 3RV5880-0CE00 • of circuit breaker usable at 500 V 3RV2220-7MN32-0AA0. Type of assignment 1. I.g = 20 kA • of full range R (use link for semiconductor protection usable up to 690 V 3RV2220-7MN32-0AA0. Type of assignment 1. I.g = 20 kA • of full range R (use link for semiconductor protection usable up to 690 V 3RV5380-0CE00 • of full range R (use link for semiconductor protection usable up to 690 V 3RV1055 • of line contactor usable up to 480 V 3RV1055 • of line contactor usable up to 690 V 3RV1055 • of line contactor usable up to 690 V 3RV1055 • of line contactor usable up to 690 V 3RV1055 • of line contactor usable up to 690 V 3RV1055 • of	•	
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buffering time in the event of power failure		CLASS 10A / 10E (preset) / 20E; acc. to IEC 60947-4-2
• for main current circuit 100 ms	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	1 800 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
vibration resistance	15 mm to 6 Hz; 2g to 500 Hz
utilization category according to IEC 60947-4-2	AC-53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	09/23/2019
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 torque control	Yes 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	143 A
• at 50 °C rated value	128 A
• at 60 °C rated value	118 A
operating voltage	
rated value	200 600 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 	37 kW
• at 400 V at 40 °C rated value	75 kW
● at 500 V at 40 °C rated value	90 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	68 A
at rotary coding switch on switch position 2	73 A
at rotary coding switch on switch position 3	78 A
at rotary coding switch on switch position 4	83 A
at rotary coding switch on switch position 5	88 A
 at rotary coding switch on switch position 6 at rotary coding switch on switch position 7 	93 A 98 A
 at rotary coding switch on switch position 7 at rotary coding switch on switch position 8 	98 A 103 A
at rotary coung switch on switch position δ	100 A

 at rotary coding switch on switch position 9 	108 A
 at rotary coding switch on switch position 10 	113 A
 at rotary coding switch on switch position 11 	118 A
 at rotary coding switch on switch position 12 	123 A
 at rotary coding switch on switch position 13 	128 A
 at rotary coding switch on switch position 14 	133 A
 at rotary coding switch on switch position 15 	138 A
 at rotary coding switch on switch position 16 	143 A
• minimum	68 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	19 W
• at 60 °C after startup	16 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	1 336 W
• at 50 °C during startup	1 134 W
	1 007 W
at 60 °C during startup	
type of the motor protection Control circuit/ Control	Electronic, tripping in the event of thermal overload of the motor
	10
type of voltage of the control supply voltage	AC
control supply voltage at AC	440 050.14
• 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	80 mA
inrush current by closing the bypass contacts maximum	2.5 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
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	198 mm
width	120 mm
depth	249 mm

required spacing with side-by-side mounting	10 mm
• forwards	10 mm
backwards	0 mm
• upwards	100 mm
 downwards 	75 mm
at the side	5 mm
weight without packaging	3.2 kg
Connections/ Terminals	
type of electrical connection	
 for main current circuit 	busbar connection
for control circuit	spring-loaded terminals
width of connection bar maximum	25 mm
type of connectable conductor cross-sections	
 for main contacts for box terminal using the front clamping point solid 	16 120 mm²
 for main contacts for box terminal using the front clamping point finely stranded with core end processing 	16 120 mm²
 for main contacts for box terminal using the front clamping point finely stranded without core end processing 	10 120 mm²
 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
 for main contacts for box terminal using both clamping points finely stranded with core end processing 	max. 1x 95 mm ² , 1x 120 mm ²
 for main contacts for box terminal using both clamping points finely stranded without core end processing 	max. 1x 95 mm², 1x 120 mm²
 for main contacts for box terminal using both clamping points stranded 	max. 2x 120 mm ²
 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 	2x (0.25 1.5 mm²)
 for control circuit finely stranded with core end processing 	2x (0.25 1.5 mm²)
 for AWG cables for control circuit solid 	2x (24 16)
for 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 	10 14 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 	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), 3	C3 (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), inside the devices), 1M4	132 (sand must not get
 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	
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	
of the fuse		
— usable for Standard Faults up to 575/600 V according to UL	Type: Class RK5 / K5, max. 350 A; lq = 10 kA	
— usable for High Faults up to 575/600 V according to UL	Type: Class J, max. 350 A; lq = 100 kA	
operating power [hp] for 3-phase motors		
• at 200/208 V at 50 °C rated value	40 hp	
 at 220/230 V at 50 °C rated value 	40 hp	
• at 460/480 V at 50 °C rated value	100 hp	
• at 575/600 V at 50 °C rated value	125 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		
certificate of suitability		
• 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 а	
Certificates/ approvals		
General Product Approval		For use in hazard- ous locations
Confirmation	·· · · · · · · · · · · · · · · · · · ·	
	۳. EHC	ATEX
For use in hazardous locations Declaration of	f Conformity Test Certificates	Marine / Shipping
IECEX Explosion Protection Certificate	CE	
IECEx	EG-Konf.	ABS

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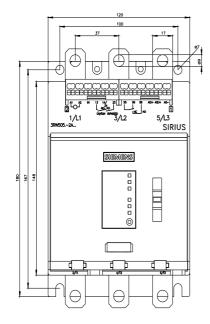
Confirmation

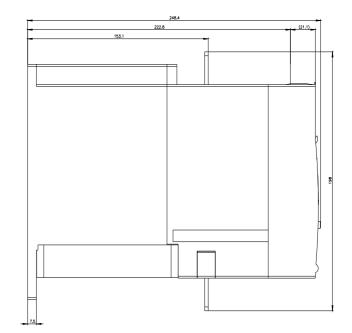
urther information
Siemens has decided to exit the Russian market (see here).
https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business
Siemens is working on the renewal of the current EAC certificates.
Please contact your local Siemens office on the status of validity of the 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=3RW5055-2AB15
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5055-2AB15
Service&Support (Manuals, Certificates, Characteristics, FAQs,)
https://support.industry.siemens.com/cs/ww/en/ps/3RW5055-2AB15
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5055-2AB15⟨=en
Characteristic: Tripping characteristics, I ² t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3RW5055-2AB15/char
Characteristic: Installation altitude

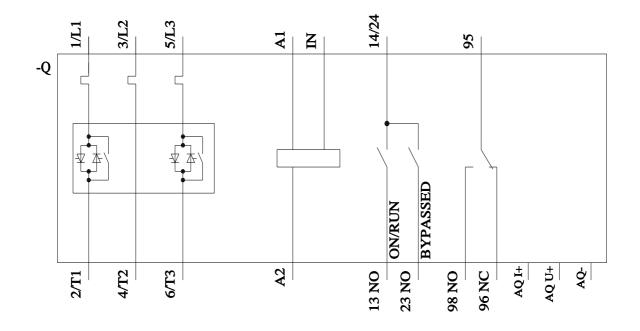
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5055-2AB15&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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