SIEMENS

Data sheet 3RW5055-2AB05

SIRIUS



SIRIUS soft starter 200-600 V 143 A, 24 V AC/DC Spring-loaded terminals Analog output

Figure similar

product brand name

b	
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 227-0; Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE3 334 -0B; Type of coordination 2, Iq = 65 kA
 of line contactor usable up to 480 V 	3RT1055
 of line contactor usable up to 690 V 	3RT1055
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

trin class	CLASS 10A / 10E (procet) / 20E: ago to IEC 60047 4 2
trip class	CLASS 10A / 10E (preset) / 20E; acc. to IEC 60947-4-2
buffering time in the event of power failure	100 mg
for main current circuit for control circuit	100 ms 100 ms
insulation voltage rated value	600 V
degree of pollution	3, acc. to IEC 60947-4-2 6 kV
impulse voltage rated value blocking voltage of the thyristor maximum	1 800 V
service factor	
reference code acc. to IEC 81346-2	1
product function	Q
•	Yes
ramp-up (soft starting)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 via software configurable	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard communication
T Not lettergy	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 	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	C0 A
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 at rotary coding switch on switch position 5	83 A
at rotary coding switch on switch position 5 at rotary coding switch on switch position 6	88 A
at rotary coding switch on switch position 6	93 A
 at rotary coding switch on switch position 7 at rotary coding switch on switch position 8 	98 A 103 A
	1115.0

 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	10 70, I Clative to simalest settable le
• at 40 °C after startup	23 W
• at 50 °C after startup	19 W
• at 60 °C after startup	16 W
·	10 VV
power loss [W] at AC at current limitation 350 %	4 220 M
• at 40 °C during startup	1 336 W
• at 50 °C during startup	1 134 W
at 60 °C during startup	1 007 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
 control supply voltage at AC 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 %
control supply voltage at DC rated value	24 V
relative negative tolerance of the control supply voltage at DC	-20 %
relative positive tolerance of the control supply	20 %
voltage at DC	
control supply current in standby mode rated value	160 mA
holding current in bypass operation rated value	360 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 not part of scope of supply
Inputs/ Outputs	
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
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	
• 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	25 11111
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
at AWG cables for main contacts for box terminal using the front clamping point	6 250 kcmil
for main contacts for box terminal using the back clamping point solid	16 120 mm²
 at 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 mm², 1x 120 mm²
 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 mm²
 for main contacts for box terminal using the back clamping point finely stranded without core end processing 	10 120 mm²
for main contacts for box terminal using the back clamping point stranded	16 120 mm²
type of connectable conductor cross-sections	
 at 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)
at AWG cables for control circuit solidat AWG cables for control circuit finely stranded with	2x (24 16) 2x (24 16)

wive length		-
** at the digital inputs at AC maximum tightening torque ** of main contacts with screw-type terminals ** of auxiliary and control contacts with screw-type terminals ** of auxiliary and control contacts with screw-type terminals ** of auxiliary and control contacts with screw-type terminals ** of auxiliary and control contacts with screw-type terminals ** of auxiliary and control contacts with screw-type terminals ** of auxiliary and control contacts with screw-type terminals ** of auxiliary and control contacts with screw-type terminals ** of auxiliary and control contacts with screw-type terminals ** of auxiliary and control contacts with screw-type terminals ** of auxiliary and control contacts with screw-type terminals ** of auxiliary and control contacts with screw-type terminals ** of auxiliary and control contacts with screw-type terminals ** of auxiliary and control contacts with screw-type terminals ** of auxiliary and control contacts with screw-type terminals ** of auxiliary and control contacts with screw-type terminals ** of auxiliary and control contacts with screw-type terminals ** of auxiliary and control contacts with screw-type terminals ** of auxiliary and control contacts with screw-type terminals ** of auxiliary and control contacts with screw-type terminals ** of auxiliary and control contacts with screw-type terminals ** of auxiliary and control contacts with screw-type terminals ** of auxiliary and control contacts with screw-type terminals ** of auxiliary and control contacts with screw-type terminals ** of auxiliary and control contacts with screw-type terminals ** of auxiliary and control contacts with screw-type terminals ** of auxiliary and control contacts with screw-type terminals ** of auxiliary and control contacts and contact form the front with auxiliary and control contact from the front with auxiliary and control contact from the front with cover ** of aux	wire length	
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• for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals • for auxiliary and control contact sole of the for auxiliary and transport • during storage act to IEC 60721 • during storage act to IEC 60529 for auxiliary and control contact from the front with cover for for intermination of the forted act. to IEC 61508 relating to ATEX for main contacts with screw-type terminals for fo	at the digital inputs at AC maximum	1 000 m
• for auxiliary and control contacts with screw-type terminals	tightening torque	
teminals for auxiliary forque (lbf-in) for main contacts with screw-type terminals for auxiliary and control contacts with screw-type terminals ### Ambient conditions installation altitude at helight above sea level maximum ### ambient temperature during operation ### ambient temperature during storage and transport ### ambient temperature during storage and transport ### auxiliary ### during operation acc. to IEC 60721 ### during storage acc. to IEC 60721 ### during stor	 for main contacts with screw-type terminals 	10 14 N·m
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Or subiliary and control contacts with screw-type terminals **Ambient conditions** installation altitude at height above sea level maximum 5 000 m; Deratting as of 1000 m, see manual	tightening torque [lbf·in]	
Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation ambient temperature during storage and transport ambient temperature during storage and transport adviring storage acc. to IEC 60721 during storage acc. to IEC 60721 during storage acc. to IEC 60721 during transport acc. to IEC 60721 Adviring transport acc. to IEC 60721 Adviring transport acc. to IEC 60721 BMC amitted interference communication module is supported PROFINET standard PROFINET standard PROFINET standard PROFISUS UCSA ratings manufacturer's article number of circuit breaker —usable for Standard Faults up to 575/600 V according to UL —usable for Ishandar Faults up to 575/600 V according to UL poperating power (Itpl for 3-phase motors at 480/480 V at 50 °C rated value at 480/480 V at 50 °C rated value	 for main contacts with screw-type terminals 	89 124 lbf·in
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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 according to UL. — usable for High Faults up to 575/600 V according to UL. Operating power [hp] for 3-phase motors o at 200/208 V at 50 °C rated value ot at 220/230 V at 50 °C rated value ot at 460/480 V at 50 °C rated value ot at 575/600 V at 50 °C rated value to hp at 575/600 V at 50 °C rated value for the front acc. to IEC 60529 The protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 The protection on the front acc. to IEC 60529 The protection on the front acc. to IEC 60529 The protection of suitability ATEX oritificate of suitability ATEX FIND with low demand rate acc. to IEC 61508 relating to ATEX PFDavg with low demand rate acc. to IEC 61508 relating to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating SIL1	of circuit breaker	
of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL Operating power [hp] for 3-phase motors • at 200/208 V at 50 °C rated value • at 220/230 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 575/600 V at 50 °C rated value • at 575/600 V at 50 °C rated value • at 575/600 V at 50 °C rated value • at 575/600 V at 50 °C rated value • at 60/480 V at 50 °C rated value • at 575/600 V at 50 °C rated value • at 60/480 V at 50 °C rated value • at 60/480 V at 50 °C rated value • at 60/480 V at 50 °C rated value • at 60/480 V at 50 °C rated value • at 60/480 V at 50 °C rated value • at 75/600 V at 50 °C rated value • at 60/480 V at 50 °C rated value • at 60/480 V at 50 °C rated value • at 60/480 V at 50 °C rated value • at 60/480 V at 50 °C rated value • at 60/480 V at 50 °C rated value • at 60/480 V at 50 °C rated value • at 60/480 V at 50 °C rated value • at 60/480 V at 50 °C rated value • at 60/480 V at 50 °C rated value • at 60/480 V at 50 °C rated value		Siemens type: 3VA5225, max. 250 A; Iq = 10 kA
according to UL — usable for High Faults up to 575/600 V according to UL operating power [hp] for 3-phase motors • at 200/208 V at 50 °C rated value • at 220/230 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 575/600 V at 50 °C rated value protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 TP00; 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 suitability • ATEX • IECEX hardware fault tolerance acc. to IEC 61508 relating to ATEX PFDavg with low demand rate acc. to IEC 61508 relating to ATEX PFHD with high demand rate acc. to IEC 61508 relating to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating SIL1	-	
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at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value at 575/600 V at 50 °C rated value protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 ATEX certificate of suitability ATEX IECEX hardware fault tolerance acc. to IEC 61508 relating to ATEX PFDavg with low demand rate acc. to IEC 61508 relating to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating SIL1		Type: Class J, max. 350 A; Iq = 100 kA
at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value at 575/600 V at 50 °C rated value 25 hp Safety related data protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 ATEX certificate of suitability ATEX IECEX PFDavg with low demand rate acc. to IEC 61508 relating to ATEX PFHD with high demand rate acc. to EN 62061 relating to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating SIL1 40 hp 100 hp 1100 hp 125 hp IP00; IP20 with cover IP00; IP20 with cover finger-safe, for vertical contact from the front with cover Yes Yes 0 0.09 0.09 1000009 1/h 1000009 1/h 10000009 1/h 10000009 1/h 10000009 1/h 100000000000000000000000000000000000	operating power [hp] for 3-phase motors	
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touch protection on the front acc. to IEC 60529 ATEX certificate of suitability • ATEX • IECEX hardware fault tolerance acc. to IEC 61508 relating to ATEX PFDavg with low demand rate acc. to IEC 61508 relating to ATEX PFHD with high demand rate acc. to EN 62061 relating to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating SIL1	 at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value at 575/600 V at 50 °C rated value 	40 hp 100 hp
certificate of suitability • ATEX • IECEX PFDavg with low demand rate acc. to IEC 61508 relating to ATEX PFHD with high demand rate acc. to EN 62061 relating to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating SIL1	 at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value at 575/600 V at 50 °C rated value Safety related data	40 hp 100 hp 125 hp
certificate of suitability • ATEX • IECEX PFDavg with low demand rate acc. to IEC 61508 relating to arelating to ATEX PFHD with high demand rate acc. to EN 62061 relating to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating SIL1	 at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value at 575/600 V at 50 °C rated value Safety related data protection class IP on the front acc. to IEC 60529	40 hp 100 hp 125 hp IP00; IP20 with cover
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● IECEX hardware fault tolerance acc. to IEC 61508 relating to ATEX PFDavg with low demand rate acc. to IEC 61508 relating to ATEX PFHD with high demand rate acc. to EN 62061 relating to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating SIL1	at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value at 575/600 V at 50 °C rated value Safety related data protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 ATEX	40 hp 100 hp 125 hp IP00; IP20 with cover
hardware fault tolerance acc. to IEC 61508 relating to ATEX PFDavg with low demand rate acc. to IEC 61508 relating to ATEX PFHD with high demand rate acc. to EN 62061 relating to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating SIL1	at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value at 575/600 V at 50 °C rated value Safety related data protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 ATEX certificate of suitability	40 hp 100 hp 125 hp IP00; IP20 with cover finger-safe, for vertical contact from the front with cover
PFDavg with low demand rate acc. to IEC 61508 relating to ATEX PFHD with high demand rate acc. to EN 62061 relating to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating SIL1	at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value at 575/600 V at 50 °C rated value Safety related data protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 ATEX certificate of suitability ATEX	40 hp 100 hp 125 hp IP00; IP20 with cover finger-safe, for vertical contact from the front with cover Yes
PFHD with high demand rate acc. to EN 62061 relating to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating SIL1	at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value at 575/600 V at 50 °C rated value Safety related data protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 ATEX certificate of suitability ATEX IECEX hardware fault tolerance acc. to IEC 61508 relating to	40 hp 100 hp 125 hp IP00; IP20 with cover finger-safe, for vertical contact from the front with cover Yes Yes
	at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value at 575/600 V at 50 °C rated value safety related data protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 ATEX certificate of suitability ATEX IECEX hardware fault tolerance acc. to IEC 61508 relating to ATEX PFDavg with low demand rate acc. to IEC 61508	40 hp 100 hp 125 hp IP00; IP20 with cover finger-safe, for vertical contact from the front with cover Yes Yes 0
	at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value at 575/600 V at 50 °C rated value at 575/600 V at 50 °C rated value Safety related data protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 ATEX certificate of suitability ATEX IECEX hardware fault tolerance acc. to IEC 61508 relating to ATEX PFDavg with low demand rate acc. to IEC 61508 relating to ATEX PFHD with high demand rate acc. to EN 62061 relating	40 hp 100 hp 125 hp IP00; IP20 with cover finger-safe, for vertical contact from the front with cover Yes Yes 0 0.09

Certificates/ approvals

General Product Approval

For use in hazardous locations













Declaration of Conformity

Test Certificates

other



<u>Miscellaneous</u>

Type Test
Certificates/Test
Report

Type Test
Certificates/Test
Report

Confirmation

Confirmation

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=3RW5055-2AB05

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5055-2AB05

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5055-2AB05

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5055-2AB05&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

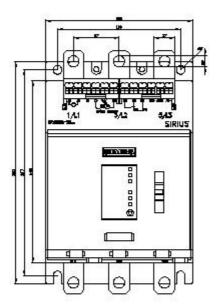
https://support.industry.siemens.com/cs/ww/en/ps/3RW5055-2AB05/char

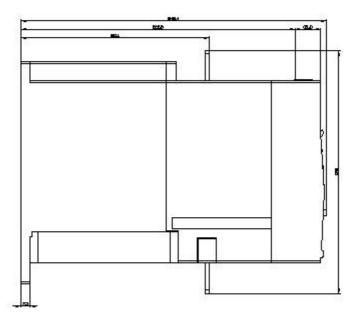
Characteristic: Installation altitude

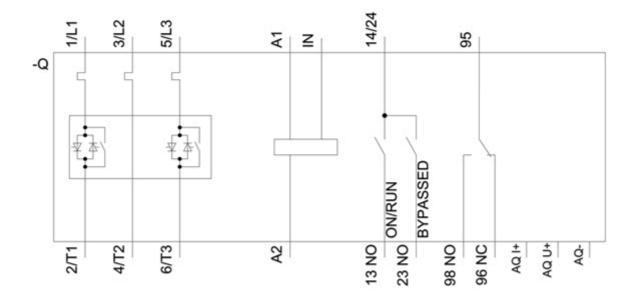
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5055-2AB05&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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