SIEMENS

Data sheet 3RW5075-2AB05



SIRIUS soft starter 200-600 V 370 A, 24 V AC/DC Spring-loaded terminals Analog output

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 	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
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

• for control circuit	100 mg	
• 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	1 600 V	
service factor	1	
surge voltage resistance rated value	6 kV	
maximum permissible voltage for protective separation	2221	
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 	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 	370 A	
 at 50 °C rated value 	328 A	
at 60 °C rated value	300 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	110 kW	
• at 400 V at 40 °C rated value	200 kW	
at 500 V at 40 °C rated value	250 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 	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	

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a ricitary coding switch on switch position 16 a minimum load [5] power loss [W] for rated value of the current at AC at 40 for fart satrup at 50 °C after satrup at 60 °C afte		356 A
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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 rush 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 ruph current by closing the bypass contacts maximum rush 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 ruph control circuit protection for control circuit protectio	at DC rated value	24 V
control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum 7.6 A 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 Varistor design of short-circuit protection for control circuit Varistor 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 Inputs/ Outputs number of digital inputs 1 number of digital outputs • not parameterizable digital output version 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 1 160 mA 490 mA 40 maximum 40 maximum 40 maximum 40 maximum 40 maximum 40 maximum 41 number of analogoutputs 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply Inputs/Outputs analogoutputs 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply Inputs/Outputs 1 number of digital inputs 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 1 1 switching capacity current of the relay outputs 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), 6	,	-20 %
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 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 number of digital outputs onto parameterizable digital output version number of analog outputs switching capacity current of the relay outputs other inputs/ Outputs 1 switching capacity current of the relay outputs other inputs/ Outputs 1 3 A other inputs/ Outputs/ Outputs 1 3 A other inputs/ Outputs/ Outputs/ Outputs other inputs/ Outputs/		20 %
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 breaker (Icu= 800 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply Inputs/ Outputs number of digital inputs number of digital outputs number of digital outputs ont parameterizable digital output version number of analog outputs switching capacity current of the relay outputs o at AC-15 at 250 V rated value o at DC-13 at 24 V rated value 12.1 ms 12.1 m	control supply current in standby mode rated value	160 mA
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 breaker (Icu= 800 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply Inputs/ Outputs number of digital inputs number of digital outputs number of digital outputs ont parameterizable digital output version number of analog outputs switching capacity current of the relay outputs o at AC-15 at 250 V rated value o at DC-13 at 24 V rated value 12.1 ms 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 1 analog outputs 1 analog outputs 1 analog output version 1 analog outputs 2 analog outputs 3 analog out	holding current in bypass operation rated value	490 mA
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 inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value 12.1 ms 13.3 A 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 13.3 A 14.3 a quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu=300 A); Is not part of scope of supply 15.1 ms 16.2 miniature circuit breaker (Icu=300 A); Is not part of scope of supply 16.2 miniature circuit breaker (Icu=300 A); Is not part of scope of supply 17.4 miniature circuit breaker (Icu=300 A); Is not part of scope of supply 18.4 miniature circuit breaker (Icu=300 A); Is not part of scope of supply 18.4 miniature circuit breaker (Icu=300 A); Is not part of scope of supply 18.4 miniature circuit breaker (Icu=300 A); Is not part of scope of supply 18.4 miniature circuit breaker (Icu=300 A); Is not part of scope of supply 18.4 miniature circuit breaker (Icu=1 kA), 6 A quick-acting fuse (Icu	inrush current by closing the bypass contacts maximum	7.6 A
design of the overvoltage protection design of short-circuit protection for control circuit threaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply Inputs/ Outputs number of digital inputs number of digital outputs number of digital outputs onto parameterizable digital output version number of analog outputs switching capacity current of the relay outputs ot at AC-15 at 250 V rated value at DC-13 at 24 V rated value Varistor 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 1 2 Inputs/ Outputs 2 anormally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 3 A 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply 1 A A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu=300 A); Is not part of scope of supply 1 A A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu=300 A); Is not part of scope of supply 1 A A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu=300 A); Is not part of scope of supply 1 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu=300 A); Is not part of scope of supply 1 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu=300 A); Is not part of scope of supply 1 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu=300 A); Is not part of scope of supply 1 1 1 1 1 1 1 1 1 1 1 1 1	inrush current peak at application of control supply voltage	3.3 A
design of the overvoltage protectionVaristordesign of short-circuit protection for control circuit4 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 supplyInputs/ Outputs1number of digital inputs1number of digital outputs3• not parameterizable2digital output version2 normally-open contacts (NO) / 1 changeover contact (CO)number of analog outputs1switching capacity current of the relay outputs3 A• at AC-15 at 250 V rated value3 A• at DC-13 at 24 V rated value1 A		12.1 ms
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 number of digital outputs onto parameterizable digital output version 2 normally-open contacts (NO) / 1 changeover contact (CO) number of analog outputs switching capacity current of the relay outputs onto at AC-15 at 250 V rated value at AC-13 at 24 V rated value 1 A		Varistor
number of digital inputs number of digital outputs onot parameterizable digital output version number of analog outputs switching capacity current of the relay outputs o at AC-15 at 250 V rated value at DC-13 at 24 V rated value 1 1 1 1 2 2 2 2 2 3 4 3 4 4 4 4 4 4 4 4 4 4		breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of
number of digital outputs ● not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs ● at AC-15 at 250 V rated value • at DC-13 at 24 V rated value 1 3 3 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A	Inputs/ Outputs	
number of digital outputs ● 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 ■ at DC-13 at 24 V rated value 1 A	number of digital inputs	1
digital output version 2 normally-open contacts (NO) / 1 changeover contact (CO) number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value 1 A	number of digital outputs	
number of analog outputs switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value 1 A	·	
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		
 at AC-15 at 250 V rated value at DC-13 at 24 V rated value 1 A 		1
at DC-13 at 24 V rated value 1 A		
	• at AC-15 at 250 V rated value	
Installation/ mounting/ dimensions	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	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	35 mm; with connection cover 3RT1966-4EA1 maximum length 45 mm	
type of connectable conductor cross-sections	SS THIN, WILL CONTINUE OF CO SECTION STATE OF THE PROPERTY OF THE SECTION OF THE	
for main contacts for box terminal using the front	95 300 mm²	
clamping point solid	00 000 Hilli	
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	
 for main contacts for box terminal using the back clamping point solid 	120 240 mm²	
 for AWG cables for main contacts for box terminal using the back clamping point 	250 500 kcmil	
for main contacts for box terminal using both 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 for main contacts for box terminal using both clamping 	min. 2x 50 mm², max. 2x 185 mm²	
points stranded • for main contacts for box terminal using both clamping points stranded	min. 2x 70 mm², max. 2x 240 mm² 120 185 mm²	
clamping point finely stranded with core end processing • for main contacts for box terminal using the back	120 185 mm ²	
clamping point finely stranded without core end processing • for main contacts for box terminal using the back	120 240 mm ²	
clamping point stranded		
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	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	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	7 10.3 lbf-in	
terminals		

installation altitude at height above and level maximum	F 000 m; denoting on of 1000 m and Manual	
installation altitude at height above sea level maximum	5 000 m; derating as of 1000 m, see Manual	
ambient temperature	05 - 00 00 Pl	5.40.00
during operation	-25 +60 °C; Please observe derating at temperatures of	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), 1 inside the devices), 1M4	IS2 (sand must not ge
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	
IL/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	
• at 575/600 V at 50 °C rated value	300 hp	
afety 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	
TEX		
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 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=3RW5075-2AB05

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5075-2AB05

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5075-2AB05

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5075-2AB05&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

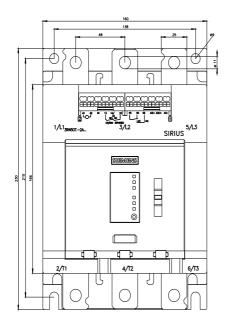
https://support.industry.siemens.com/cs/ww/en/ps/3RW5075-2AB05/char

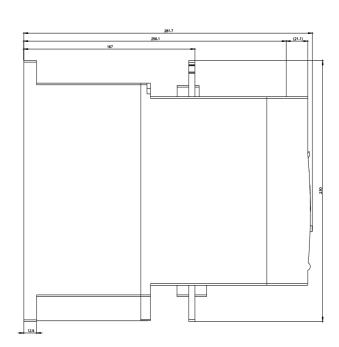
Characteristic: Installation altitude

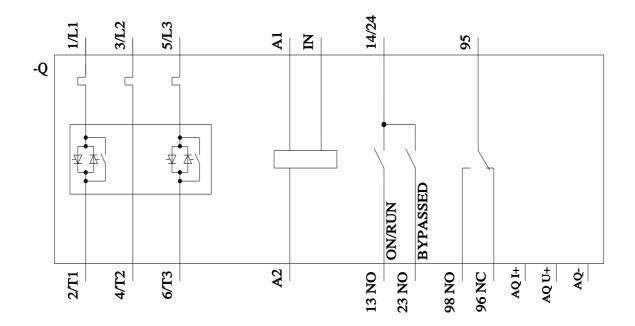
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5075-2AB05\&objecttype=14\&gridview=view1}$

Simulation Tool for Soft Starters (STS)

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







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