SIEMENS

Data sheet

3RW5074-6TB05



SIRIUS soft starter 200-600 V 315 A, 24 V AC/DC Screw terminals Thermistor input

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 	<u>3VA2440-7MN32-0AA0: Type of assignment 1, lq = 65 kA</u>				
 of circuit breaker usable at 500 V 	3VA2440-7MN32-0AA0; 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 	<u>3NE1 333-2; 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>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 %				
accuracy class according to IEC 61557-12	5 %				
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 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	1600 V			
surge voltage resistance rated value	_ 1 _ 6 kV			
maximum permissible voltage for safe isolation				
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 g / 11 ms, from 12 g / 11 ms with potential contact lifting 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; Full motor protection (thermistor motor protection and electronic motor overload protection)			
 evaluation of thermistor motor protection 	Yes; Type A PTC or Klixon / Thermoclick			
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	No			
Power Electronics				
operational current				
• at 40 °C rated value	315 A			
● at 50 °C rated value	279 A			
• at 60 °C rated value	255 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	90 kW			
 at 400 V at 40 °C rated value 	160 kW			
• at 500 V at 40 °C rated value	200 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	12E A			
 at rotary coding switch on switch position 1 at rotary coding switch on switch position 2 	135 A			
 at rotary coding switch on switch position 2 at rotary coding switch on switch position 3 	147 A 159 A			
- at rotary county switch on switch position s				

 at rotary coding switch on switch position 4 	171 A				
 at rotary coding switch on switch position 5 	183 A				
 at rotary coding switch on switch position 6 	195 A				
 at rotary coding switch on switch position 7 	207 A				
 at rotary coding switch on switch position 8 	219 A				
 at rotary coding switch on switch position 9 	231 A				
 at rotary coding switch on switch position 10 	231 A 243 A				
 at rotary coding switch on switch position 10 at rotary coding switch on switch position 11 	255 A				
	267 A				
 at rotary coding switch on switch position 12 					
at rotary coding switch on switch position 13	279 A				
 at rotary coding switch on switch position 14 	291 A				
 at rotary coding switch on switch position 15 	303 A				
 at rotary coding switch on switch position 16 	315 A				
minimum	135 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 	36 W				
• at 50 °C after startup	29 W				
 at 60 °C after startup 	24 W				
power loss [W] at AC at current limitation 350 %					
• at 40 °C during startup	3 368 W				
• at 50 °C during startup	2 805 W				
• at 60 °C during startup	2 455 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 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	-10 %				
voltage frequency relative positive tolerance of the control supply	10 %				
voltage frequency					
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 voltage at DC	20 %				
control supply current in standby mode rated value	160 mA				
holding current in bypass operation rated value	490 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 digital outputs	3				

not parameterizable	2			
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)			
number of analog outputs	0			
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	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	screw-type terminals			
width of connection bar maximum	35 mm; with connection cover 3RT1966-4EA1 maximum length 45 mm			
wire length for thermistor connection				
• with conductor cross-section = 0.5 mm ² maximum	50 m			
• with conductor cross-section = 1.5 mm ² maximum	150 m			
• with conductor cross-section = 2.5 mm ² maximum	250 m			
type of connectable conductor cross-sections	230 11			
for main contacts for box terminal using the front	95 300 mm²			
clamping point solid	35 500 mm			
 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			
 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 	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 	120 240 mm²			
type of connectable conductor cross-sections				

a at ANAC applies for main surrout size uit called				
at AWG cables for main current circuit solid	2/0 500 kcmil			
for DIN cable lug for main contacts stranded	50 240 mm² 70 240 mm²			
for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections	70 240 mm ⁻			
for control circuit solid	$1x (0.5 \pm 0.000^2) 2x (0.5 \pm 2.5000^2)$			
 for control circuit finely stranded with core end 	1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²)			
processing	1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²)			
at AWG cables for control circuit solid	1x (20 12), 2x (20 14)			
wire length	000			
 between soft starter and motor maximum at the digital inputs at AC maximum 	800 m 1 000 m			
at the digital inputs at AC maximum tightening torque				
 for main contacts with screw-type terminals 	14 24 N·m			
 for auxiliary and control contacts with screw-type 	14 24 N·m 0.8 1.2 N·m			
terminals				
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				
Ambient conditions				
installation altitude at height above sea level maximum	5 000 m; derating as of 1000 m, see Manual			
ambient temperature	25 ±60 °C: Places sharp a derating at terms articles of 40 °C			
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), 3S2 (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 get 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			
EMC emitted interference Communication/ Protocol	acc. to IEC 60947-4-2: Class A			
	acc. to IEC 60947-4-2: Class A			
Communication/ Protocol	acc. to IEC 60947-4-2: Class A Yes			
Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP	Yes Yes			
Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU	Yes Yes Yes			
Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP	Yes Yes Yes Yes			
Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS	Yes Yes Yes			
Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings	Yes Yes Yes Yes			
Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number	Yes Yes Yes Yes			
Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker	Yes Yes Yes Yes			
Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for High Faults at 460/480 V according to UL	Yes Yes Yes Yes			
Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for High Faults at 460/480 V according to UL • of the fuse — usable for Standard Faults up to 575/600 V	Yes Yes Yes Yes			
Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for High Faults at 460/480 V 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	Yes Yes Yes Yes Siemens type: 3VA54, max. 600 A; lq max = 65 kA			
Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for High Faults at 460/480 V 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	Yes Yes Yes Yes Siemens type: 3VA54, max. 600 A; lq max = 65 kA Type: Class L, max. 1000 A; lq = 18 kA			
Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for High Faults at 460/480 V 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	Yes Yes Yes Yes Yes Siemens type: 3VA54, max. 600 A; lq max = 65 kA Type: Class L, max. 1000 A; lq = 18 kA Type: Class L, max. 1000 A; lq = 100 kA			
Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for High Faults at 460/480 V 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 — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for Jphase motors • at 200/208 V at 50 °C rated value	Yes Yes Yes Yes Yes Siemens type: 3VA54, max. 600 A; lq max = 65 kA Type: Class L, max. 1000 A; lq = 18 kA Type: Class L, max. 1000 A; lq = 100 kA			
Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for High Faults at 460/480 V 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 — usable for High 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 • at 200/208 V at 50 °C rated value • at 220/230 V at 50 °C rated value	Yes Yes Yes Yes Yes Siemens type: 3VA54, max. 600 A; lq max = 65 kA Type: Class L, max. 1000 A; lq = 18 kA Type: Class L, max. 1000 A; lq = 100 kA 75 hp 100 hp			
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Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for High Faults at 460/480 V 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 — usable for Jpf for 3-phase motors • at 200/208 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	Yes Yes Yes Yes Yes Siemens type: 3VA54, max. 600 A; lq max = 65 kA Type: Class L, max. 1000 A; lq = 18 kA Type: Class L, max. 1000 A; lq = 100 kA 75 hp 100 hp			
Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for High Faults at 460/480 V 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 — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL • at 200/208 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 • at 575/600 V at 50 °C rated value	Yes Yes Yes Yes Siemens type: 3VA54, max. 600 A; lq max = 65 kA Type: Class L, max. 1000 A; lq = 18 kA Type: Class L, max. 1000 A; lq = 100 kA 75 hp 100 hp 200 hp 250 hp			
Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for High Faults at 460/480 V 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 — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL Soperating power [hp] for 3-phase motors • at 200/208 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	Yes Yes Yes Yes Yes Siemens type: 3VA54, max. 600 A; lq max = 65 kA Type: Class L, max. 1000 A; lq = 18 kA Type: Class L, max. 1000 A; lq = 100 kA 75 hp 100 hp 200 hp 250 hp			
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Communication/ Protocol communication module is supported PROFINET standard EtherNet/IP Modbus RTU Modbus RTU Nodbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker - usable for High Faults at 460/480 V 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 - usable for Jigh Faults up to 575/600 V according to UL 0perating 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 To the formation of the front according to IEC 60529 touch protection on the front according to IEC 60529 ATEX certificate of suitability	Yes Yes Yes Yes Siemens type: 3VA54, max. 600 A; lq max = 65 kA Type: Class L, max. 1000 A; lq = 18 kA Type: Class L, max. 1000 A; lq = 100 kA 75 hp 100 hp 200 hp 250 hp			
Communication/ Protocol communication module is supported PROFINET standard EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker - usable for High Faults at 460/480 V 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 0 perating power [hp] for 3-phase motors at 200/208 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 Catefy related data protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 ATEX	Yes Yes Yes Yes Yes Siemens type: 3VA54, max. 600 A; lq max = 65 kA Type: Class L, max. 1000 A; lq = 18 kA Type: Class L, max. 1000 A; lq = 100 kA 75 hp 100 hp 200 hp 250 hp			

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 у				
Certificates/ approval	S					
General Product Ap	proval					For use in hazard- ous locations
SP M	CCC	<u>Confirmatic</u>	<u>nc</u>		EAC	KEx ATEX
For use in hazard- ous locations	Declaration of Conformity	Test Certifica	ates	Marine / Shipping		
IECEx	CE EG-Konf.	<u>Type Test Cer</u> ates/Test Re		ABS	Lloyd's Register urs	PRS
other						
<u>Confirmation</u>						

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=3RW5074-6TB05
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5074-6TB05
Service&Support (Manuals, Certificates, Characteristics, FAQs,)
https://support.industry.siemens.com/cs/ww/en/ps/3RW5074-6TB05
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5074-6TB05⟨=en
Characteristic: Tripping characteristics, I ² t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3RW5074-6TB05/char
Characteristic: Installation altitude
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5074-6TB05&objecttype=14&gridview=view1
Simulation Tool for Soft Starters (STS)
https://support.industry.siemens.com/cs/ww/en/view/101494917

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