## **SIEMENS**

Data sheet 3RW5055-2TB04

SIRIUS



SIRIUS soft starter 200-480 V 143 A, 24 V AC/DC Spring-loaded terminals Thermistor input

Figure similar

product brand name

produce and an annual control	
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW50
manufacturer's article number	
<ul> <li>of standard HMI module usable</li> </ul>	3RW5980-0HS01
<ul> <li>of high feature HMI module usable</li> </ul>	3RW5980-0HF00
<ul> <li>of communication module PROFINET standard usable</li> </ul>	3RW5980-0CS00
<ul> <li>of communication module PROFIBUS usable</li> </ul>	3RW5980-0CP00
<ul> <li>of communication module Modbus TCP usable</li> </ul>	3RW5980-0CT00
<ul> <li>of communication module Modbus RTU usable</li> </ul>	3RW5980-0CR00
<ul> <li>of communication module Ethernet/IP</li> </ul>	3RW5980-0CE00
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3VA2220-7MN32-0AA0; Type of assignment 1, Iq = 20 kA
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2220-7MN32-0AA0; Type of assignment 1, Iq = 20 kA
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3244-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE1 227-0; Type of coordination 2, Iq = 65 kA
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE3 334 -0B; Type of coordination 2, Iq = 65 kA
<ul> <li>of line contactor usable up to 480 V</li> </ul>	<u>3RT1055</u>
<ul> <li>of line contactor usable up to 690 V</li> </ul>	<u>3RT1055</u>
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

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	1 400 V
service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
<ul> <li>between main and auxiliary circuit</li> </ul>	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
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	23.09.2019 00:00:00
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
Thotor evertoda protection	motor overload protection)
<ul> <li>evaluation of thermistor motor protection</li> </ul>	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 parameterizatio     via software configurable	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard communication
• Fixor leftergy	module
voltage ramp	Yes
torque control	No
analog output	No
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	200 480 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
operating power for 3-phase motors	
operating power for 3-phase motors  • at 230 V at 40 °C rated value	37 kW
• at 230 V at 40 °C rated value	37 kW
at 230 V at 40 °C rated value  at 400 V at 40 °C rated value	75 kW
at 230 V at 40 °C rated value     at 400 V at 40 °C rated value  Operating frequency 1 rated value	75 kW 50 Hz
at 230 V at 40 °C rated value     at 400 V at 40 °C rated value  Operating frequency 1 rated value  Operating frequency 2 rated value	75 kW 50 Hz 60 Hz
at 230 V at 40 °C rated value     at 400 V at 40 °C rated value  Operating frequency 1 rated value  Operating frequency 2 rated value  relative negative tolerance of the operating frequency	75 kW 50 Hz 60 Hz -10 %
at 230 V at 40 °C rated value     at 400 V at 40 °C rated value  Operating frequency 1 rated value  Operating frequency 2 rated value  relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency	75 kW 50 Hz 60 Hz
at 230 V at 40 °C rated value     at 400 V at 40 °C rated value  Operating frequency 1 rated value  Operating frequency 2 rated value  relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency adjustable motor current	75 kW 50 Hz 60 Hz -10 % 10 %
at 230 V at 40 °C rated value  at 400 V at 40 °C rated value  Operating frequency 1 rated value  Operating frequency 2 rated value  relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency adjustable motor current  at rotary coding switch on switch position 1	75 kW 50 Hz 60 Hz -10 % 10 %
at 230 V at 40 °C rated value     at 400 V at 40 °C rated value  Operating frequency 1 rated value  Operating frequency 2 rated value  relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency adjustable motor current	75 kW 50 Hz 60 Hz -10 % 10 %

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at 50 Hz rated value  at 60 Hz rated value  24 V  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative negative tolerance of the control supply voltage  at DC rated value  relative negative tolerance of the 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  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative negative tolerance of the control supply voltage at DC  relative negative tolerance of the control supply voltage at DC  relative negative tolerance of the control supply voltage at DC  relative negative tolerance of the control supply voltage at DC  relative negative tolerance of the control supply voltage at DC  relative negative tolerance of the control supply voltage at DC  relative negative tolerance of the control supply voltage at DC  relative negative tolerance of the control supply of 0 %  24 V  -20 %  24 V  -20 %  -20 %  -20 %  -20 %  -20 %  -20 %  -20 %		AOIDO
e at 60 Hz rated value  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  control supply voltage  • at DC rated value  relative positive 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 holding current at close of bypass contact maximum  inrush current peak at application of control supply voltage maximum inrush current peak at application of control supply voltage duration of inrush current peak at application of control supply voltage  design of the overvoltage protection  design of short-circuit protection for control circuit  24 V  -20 %		24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency 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 locked-rotor current at close of bypass contact 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 voltage at DC (cu = 1 kA), 6 A quick-acting fuse (Icu = 1 kA), C1 miniature circuit breaker (Icu = 600 A), Is		
relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  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  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  at DC rated value  24 V  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  at DC rated value  160 mA  160 mA  160 mA  17.6 A  21.1 ms  12.1 ms		
relative positive tolerance of the control supply voltage at AC at 50 Hz  relative negative tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative negative tolerance of the control supply voltage frequency  relative negative tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  relative positive tolerance of the control supply voltage frequency  control supply voltage  • at DC rated value  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive 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  locked-rotor current at close of bypass contact 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  20 %  20 %  21 V  22 V  23 W  24 V  26 M  26 M  27 M  28 M  29 M  20 M  2	voltage at AC at 50 Hz	-20 //
relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply voltage		20 %
relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply voltage		-20 %
voltage at AC at 60 Hz  control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply voltage		/·
control supply voltage frequency relative negative tolerance of the control supply voltage frequency 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 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 locked-rotor current at close of bypass contact 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  50 60 Hz  -10 %  0 W  0 W  0 W  10 MA  160 mA  360 mA  7.6 A  3.3 A  12.1 ms		20 %
relative negative tolerance of the control supply voltage frequency  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  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 locked-rotor current at close of bypass contact 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  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		
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 locked-rotor current at close of bypass contact maximum  inrush current peak at application of control supply voltage maximum  duration of inrush current peak at application of control supply voltage protection  design of short-circuit protection for control circuit  dration 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		
voltage frequency  control supply voltage  at DC rated value  24 V  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  locked-rotor current at close of bypass contact 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  dividual supply voltage (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 300 A); Is		-10 %
control supply voltage		10 %
<ul> <li>at DC rated value</li> <li>relative negative tolerance of the control supply voltage at DC</li> <li>relative positive tolerance of the control supply voltage at DC</li> <li>control supply current in standby mode rated value</li> <li>holding current in bypass operation rated value</li> <li>locked-rotor current at close of bypass contact maximum</li> <li>inrush current peak at application of control supply voltage maximum</li> <li>duration of inrush current peak at application of control supply voltage</li> <li>design of the overvoltage protection</li> <li>design of short-circuit protection for control circuit</li> <li>4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 300 A); Is</li> </ul>		
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 locked-rotor current at close of bypass contact 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  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	,	24 V
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 locked-rotor current at close of bypass contact 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  Varistor  4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 300 A); Is		
voltage at DC  control supply current in standby mode rated value holding current in bypass operation rated value locked-rotor current at close of bypass contact 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  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		
holding current in bypass operation rated value  locked-rotor current at close of bypass contact 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  4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 300 A); Is		20 %
Tocked-rotor current at close of bypass contact maximum   Toke current peak at application of control supply voltage maximum   Toke current peak at application of control supply voltage   Toke current peak at appli	control supply current in standby mode rated value	160 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  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	holding current in bypass operation rated value	360 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  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		7.6 A
supply voltage  design of the overvoltage protection  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= 300 A), C6 miniature circuit breaker (Icu= 300 A); Is	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		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		Varistor
	Inputs/ Outputs	

number of digital inputs	1
number of inputs for thermistor connection	1; Type A PTC or Klixon / Thermoclick
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	198 mm
width	120 mm
depth	249 mm
required spacing with side-by-side mounting	
<ul><li>forwards</li></ul>	10 mm
<ul><li>backwards</li></ul>	0 mm
• upwards	100 mm
<ul><li>downwards</li></ul>	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
wire length for thermistor connection	
<ul> <li>with conductor cross-section = 0.5 mm² maximum</li> </ul>	50 m
<ul> <li>with conductor cross-section = 1.5 mm² maximum</li> </ul>	150 m
• with conductor cross-section = 2.5 mm² maximum	250 m
type of connectable conductor cross-sections	
<ul> <li>for main contacts for box terminal using the front clamping point solid</li> </ul>	16 120 mm²
<ul> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> </ul>	16 120 mm²
<ul> <li>for main contacts for box terminal using the front clamping point finely stranded without core end processing</li> </ul>	10 120 mm²
<ul> <li>for main contacts for box terminal using the front clamping point stranded</li> </ul>	16 70 mm²
<ul> <li>at AWG cables for main contacts for box terminal using the front clamping point</li> </ul>	6 250 kcmil
<ul> <li>for main contacts for box terminal using the back clamping point solid</li> </ul>	16 120 mm²
<ul> <li>at AWG cables for main contacts for box terminal using the back clamping point</li> </ul>	6 250 kcmil
<ul> <li>for main contacts for box terminal using both clamping points solid</li> </ul>	max. 1x 95 mm², 1x 120 mm²
<ul> <li>for main contacts for box terminal using both clamping points finely stranded with core end processing</li> </ul>	max. 1x 95 mm², 1x 120 mm²
<ul> <li>for main contacts for box terminal using both clamping points finely stranded without core end processing</li> </ul>	max. 1x 95 mm², 1x 120 mm²
<ul> <li>for main contacts for box terminal using both clamping points stranded</li> </ul>	max. 2x 120 mm²
<ul> <li>for main contacts for box terminal using the back clamping point finely stranded with core end processing</li> </ul>	16 120 mm²

<ul> <li>for main contacts for box terminal using the back clamping point finely stranded without core end processing</li> </ul>	10 120 mm²
for main contacts for box terminal using the back clamping point stranded	16 120 mm²
type of connectable conductor cross-sections	
<ul> <li>at AWG cables for main current circuit solid</li> </ul>	4 250 kcmil
<ul> <li>for DIN cable lug for main contacts stranded</li> </ul>	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 solid	2x (24 16)
<ul> <li>at AWG cables for control circuit finely stranded with core end processing</li> </ul>	2x (24 16)
wire length	
between soft starter and motor maximum	800 m
<ul> <li>at the digital inputs at AC maximum</li> </ul>	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	7 10.3 lbf·in
terminals	7 10.0 lb1 iii
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
<ul> <li>during storage and transport</li> </ul>	-40 +80 °C
environmental category	
• during operation acc. to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
<ul> <li>during storage acc. to IEC 60721</li> </ul>	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
during transport acc. 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	Siemens type: 3VA5225, max. 250 A; Iq = 10 kA
according to UL  • of the fuse	Oldinolid type. 0 VN0220, Illan. 200 A, Iq - 10 NA
— usable for Standard Faults up to 575/600 V	Type: Class RK5 / K5, max. 350 A; Iq = 10 kA
according to UL	
according to UL  — usable for High Faults up to 575/600 V according to UL	Type: Class J, max. 350 A; Iq = 100 kA
— usable for High Faults up to 575/600 V	
— 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	Type: Class J, max. 350 A; Iq = 100 kA
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	Type: Class J, max. 350 A; Iq = 100 kA

0-5-6	
Safety related data	
protection class IP on the front acc. to IEC 60529	IP00; 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	Yes
• IECEx	Yes
hardware fault tolerance acc. to IEC 61508 relating to ATEX	0
PFDavg with low demand rate acc. to IEC 61508 relating to ATEX	0.09
PFHD with high demand rate acc. to EN 62061 relating to ATEX	0.000009 1/h
Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX	SIL1
T1 value for proof test interval or service life acc. to IEC 61508 relating to ATEX	3 y
Contification   approvale	

Certificates/ approvals

**General Product Approval** 

For use in hazardous locations













**Declaration of Conformity** 

**Test Certificates** 

other



**Miscellaneous** 

Type Test Certificates/Test Report

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=3RW5055-2TB04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5055-2TB04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5055-2TB04

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5055-2TB04&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

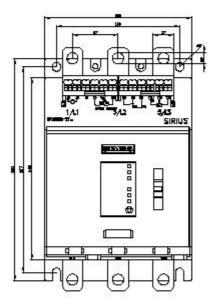
https://support.industry.siemens.com/cs/ww/en/ps/3RW5055-2TB04/char

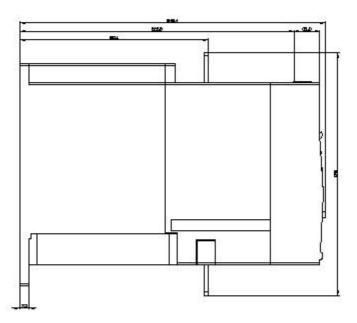
Characteristic: Installation altitude

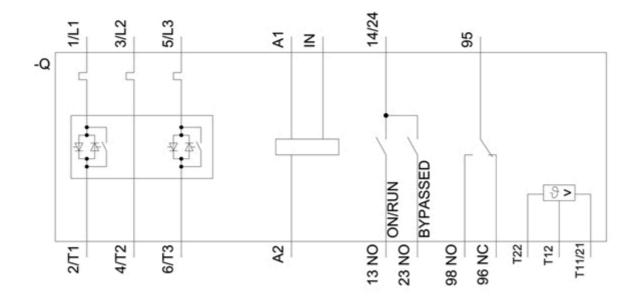
 $\underline{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5055-2TB04\&objecttype=14\&gridview=view1.pdf$ 

Simulation Tool for Soft Starters (STS)

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







last modified: 6/24/2021 🖸