## **SIEMENS**

Data sheet 3RW5055-2TB05

SIRIUS



SIRIUS soft starter 200-600 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	400
for main current circuit	100 ms
for control circuit	100 ms
insulation voltage rated value	600 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 800 V
service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for 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
• motor overload 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
·	Yes
<ul><li>via software configurable</li><li>PROFlenergy</li></ul>	Yes: in connection with the PROFINET Standard communication
• PROFIEIIEI Gy	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	200 600 V
relative negative tolerance of the operating voltage	-15 %
relative negative tolerance of the operating voltage	10 %
operating power for 3-phase motors	10 /0
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
	50 Hz
Operating frequency 1 rated value	60 Hz
Operating frequency 2 rated value	
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
adjustable motor current	00.4
	68 A
<ul> <li>at rotary coding switch on switch position 1</li> <li>at rotary coding switch on switch position 2</li> </ul>	73 A

<ul> <li>at rotary coding switch on switch position 3</li> </ul>	78 A
<ul> <li>at rotary coding switch on switch position 4</li> </ul>	83 A
at rotary coding switch on switch position 5	88 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	93 A
at rotary coding switch on switch position 7	98 A
at rotary coding switch on switch position 8	103 A
at rotary coding switch on switch position 9	108 A
at rotary coding switch on switch position 10	113 A
at rotary coding switch on switch position 11	118 A
at rotary coding switch on switch position 12	123 A
at rotary coding switch on switch position 13	128 A
at rotary coding switch on switch position 14	133 A
at rotary coding switch on switch position 15	138 A
at rotary coding switch on switch position 16	143 A
minimum	68 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	10 70, Ixelative to simalest settable te
• at 40 °C after startup	23 W
• at 50 °C after startup	19 W
• at 60 °C after startup	16 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	1 336 W
at 40 °C during startup     at 50 °C during startup	1 336 W
at 50 °C during startup     at 60 °C during startup	1 134 W 1 007 W
type of the motor protection	
<u> </u>	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	A O/D O
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	04.1/
• at 50 Hz rated value	24 V
• 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	20 %
voltage at AC at 50 Hz	
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	40.07
relative positive tolerance of the control supply voltage frequency	10 %
control supply voltage	041/
at DC rated value      relative reporting to large and the control owner.	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	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	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
<ul> <li>at DC-13 at 24 V rated value</li> </ul>	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
• 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
wire length for thermistor connection	
• with conductor cross-section = 0.5 mm² maximum	50 m
• with conductor cross-section = 1.5 mm² maximum	150 m
with conductor cross-section = 2.5 mm² maximum	250 m
type of connectable conductor cross-sections	16 120 mm²
<ul> <li>for main contacts for box terminal using the front clamping point solid</li> <li>for main contacts for box terminal using the front</li> </ul>	16 120 mm <sup>2</sup>
clamping point finely stranded with core end processing	10 120 Hilli
<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
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
<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</li> </ul>	16 120 mm²

processing	
<ul> <li>for main contacts for box terminal using the back clamping point finely stranded without core end</li> </ul>	10 120 mm²
processing	
<ul> <li>for main contacts for box terminal using the back clamping point stranded</li> </ul>	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	2x (0.25 1.5 mm²)
processing	
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	
<ul> <li>between soft starter and motor maximum</li> </ul>	800 m
at the digital inputs at AC maximum	1 000 m
tightening torque	
• for main contacts with screw-type terminals	10 14 N·m
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	0.8 1.2 N·m
terminals	
tightening torque [lbf·in]	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	89 124 lbf·in
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	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	
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
<ul><li>during operation</li><li>during storage and transport</li></ul>	
•	above
during storage and transport	above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt
during storage and transport     environmental category	above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must
during storage and transport     environmental category     during operation acc. to IEC 60721      during storage acc. to IEC 60721	above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
during storage and transport     environmental category     during operation acc. to IEC 60721     during storage acc. to IEC 60721     during transport acc. to IEC 60721	above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
during storage and transport     environmental category     during operation acc. to IEC 60721      during storage acc. to IEC 60721      during transport acc. to IEC 60721  EMC emitted interference	above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
during storage and transport     environmental category     during operation acc. to IEC 60721      during storage acc. to IEC 60721      during transport acc. to IEC 60721  EMC emitted interference  Communication/ Protocol	above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
during storage and transport     environmental category         • during operation acc. to IEC 60721         • during storage acc. to IEC 60721         • during transport acc. to IEC 60721         • during transport acc. to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported	above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A
during storage and transport     environmental category         • during operation acc. to IEC 60721         • during storage acc. to IEC 60721         • during transport acc. to IEC 60721         EMC emitted interference Communication/ Protocol communication module is supported         • PROFINET standard	above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A
during storage and transport     environmental category         • during operation acc. to IEC 60721          • during storage acc. to IEC 60721          • during transport acc. to IEC 60721          EMC emitted interference  Communication/ Protocol  communication module is supported         • PROFINET standard         • EtherNet/IP	above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A
during storage and transport     environmental category         • during operation acc. to IEC 60721         • during storage acc. to IEC 60721         • during transport acc. to IEC 60721          EMC emitted interference  Communication/ Protocol  communication module is supported         • PROFINET standard         • EtherNet/IP         • Modbus RTU	above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A  Yes  Yes  Yes
during storage and transport     environmental category         • during operation acc. to IEC 60721         • during storage acc. to IEC 60721         • during transport acc. to IEC 60721          EMC emitted interference  Communication/ Protocol  communication module is supported         • PROFINET standard         • EtherNet/IP         • Modbus RTU         • Modbus TCP	above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A  Yes  Yes  Yes
during storage and transport     environmental category         • during operation acc. to IEC 60721          • during storage acc. to IEC 60721          • during transport acc. to IEC 60721          • during transport acc. to IEC 60721          • EMC emitted interference  Communication/ Protocol  communication module is supported          • PROFINET standard          • EtherNet/IP          • Modbus RTU          • Modbus TCP          • PROFIBUS	above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A  Yes  Yes  Yes
during storage and transport     environmental category         • during operation acc. to IEC 60721         • during storage acc. to IEC 60721         • during transport acc. to IEC 60721          EMC emitted interference  Communication/ Protocol  communication module is supported         • PROFINET standard         • EtherNet/IP         • Modbus RTU         • Modbus TCP	above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A  Yes  Yes  Yes  Yes
during storage and transport     environmental category         • during operation acc. to IEC 60721          • during storage acc. to IEC 60721          • during transport acc. to IEC 60721          • during transport acc. to IEC 60721          • EMC emitted interference  Communication/ Protocol  communication module is supported          • PROFINET standard          • EtherNet/IP          • Modbus RTU          • Modbus TCP          • PROFIBUS	above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A  Yes  Yes  Yes  Yes
during storage and transport     environmental category         • during operation acc. to IEC 60721          • during storage acc. to IEC 60721          • during transport acc. to IEC 60721          EMC emitted interference  Communication/ Protocol  communication module is supported         • PROFINET standard         • EtherNet/IP         • Modbus RTU         • Modbus TCP         • PROFIBUS  UL/CSA ratings	above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A  Yes  Yes  Yes
during storage and transport     environmental category         • during operation acc. to IEC 60721         • during storage acc. to IEC 60721         • during transport acc. to IEC 60721          • during transport acc. to IEC 60721  EMC emitted interference  Communication/ Protocol  communication module is supported         • PROFINET standard         • EtherNet/IP         • Modbus RTU         • Modbus TCP         • PROFIBUS  UL/CSA ratings  manufacturer's article number	above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A  Yes  Yes  Yes
during storage and transport     environmental category         • during operation acc. to IEC 60721          • during storage acc. to IEC 60721          • during transport acc. to IEC 60721          • during transport acc. to IEC 60721  EMC emitted interference  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 Standard Faults at 460/480 V	above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A  Yes  Yes  Yes  Yes  Yes
during storage and transport     environmental category         • during operation acc. to IEC 60721          • during storage acc. to IEC 60721          • during transport acc. to IEC 60721          • during transport acc. to IEC 60721          • EMC emitted interference  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 Standard Faults at 460/480 V according to UL          • of the fuse              — usable for Standard Faults up to 575/600 V	above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A  Yes  Yes  Yes  Yes  Yes  Yes
during storage and transport     environmental category         • during operation acc. to IEC 60721          • during storage acc. to IEC 60721          • during transport acc. to IEC 60721          • during transport acc. to IEC 60721  EMC emitted interference  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 Standard 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	above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes Yes Yes Yes Yes
during storage and transport     environmental category         • during operation acc. to IEC 60721          • during storage acc. to IEC 60721          • during transport acc. to IEC 60721          • during transport acc. to IEC 60721  EMC emitted interference  Communication/Protocol  communication module is supported          • PROFINET standard          • EtherNet/IP          • Modbus RTU          • Modbus RTU          • Modbus TCP          • PROFIBUS  UL/CSA ratings  manufacturer's article number          • of circuit breaker              — usable for Standard 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	above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes Yes Yes Yes Yes Class RK5 / K5, max. 250 A; Iq = 10 kA
• during storage and transport     environmental category     • during operation acc. to IEC 60721      • during storage acc. to IEC 60721      • during transport acc. to IEC 60721      EMC emitted interference  Communication/ Protocol  communication module is supported      • PROFINET standard      • EtherNet/IP      • Modbus RTU      • Modbus RTU      • Modbus TCP      • PROFIBUS  UL/CSA ratings  manufacturer's article number      • of circuit breaker      — usable for Standard 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      operating power [hp] for 3-phase motors	above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes Yes Yes Yes Class RK5 / K5, max. 250 A; Iq = 10 kA  Type: Class RK5 / K5, max. 350 A; Iq = 10 kA
during storage and transport     environmental category         • during operation acc. to IEC 60721          • during storage acc. to IEC 60721          • during transport acc. to IEC 60721          • during transport acc. to IEC 60721  EMC emitted interference  Communication/Protocol  communication module is supported          • PROFINET standard          • EtherNet/IP          • Modbus RTU          • Modbus RTU          • Modbus TCP          • PROFIBUS  UL/CSA ratings  manufacturer's article number          • of circuit breaker              — usable for Standard 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	above -40 +80 °C  3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6  1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4  2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)  acc. to IEC 60947-4-2: Class A  Yes Yes Yes Yes Yes Yes Yes Yes Class RK5 / K5, max. 250 A; Iq = 10 kA

<ul> <li>at 460/480 V at 50 °C rated value</li> </ul>	100 hp
<ul> <li>at 575/600 V at 50 °C rated value</li> </ul>	125 hp
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
Certificates/ approvals	

**General Product Approval** 

For use in hazardous locations













Declaration of Conformity

**Test Certificates** 

other



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=3RW5055-2TB05

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5055-2TB05}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5055-2TB05

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5055-2TB05\&lang=en}$ 

Characteristic: Tripping characteristics, I2t, Let-through current

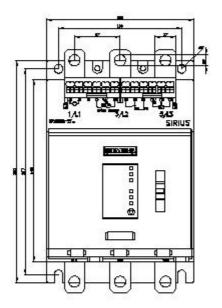
https://support.industry.siemens.com/cs/ww/en/ps/3RW5055-2TB05/char

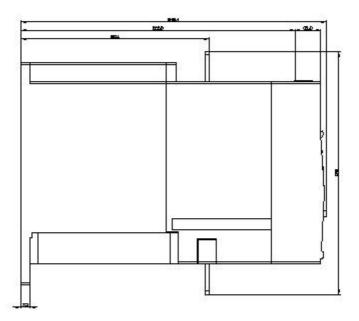
Characteristic: Installation altitude

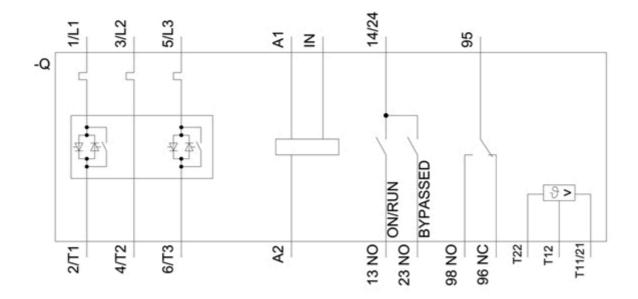
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5055-2TB05&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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