## SIEMENS

## Data sheet

## 3RW5056-6TB04



SIRIUS soft starter 200-480 V 171 A, 24 V AC/DC Screw terminals Thermistor input

Figure similar

product brand name	SIRIUS			
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 230-0; 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 335; Type of coordination 2, Iq = 65 kA			
<ul> <li>of line contactor usable up to 480 V</li> </ul>	3RT1056			
<ul> <li>of line contactor usable up to 690 V</li> </ul>	3RT1064			
Seneral technical data				
starting voltage [%]	30 100 %			
stopping voltage [%]	50 50 %			
start-up ramp time of soft starter	0 20 s			
ramp-down time of soft starter	0 20 s			
current limiting value [%] adjustable	130 700 %			
accuracy class acc. to IEC 61557-12	5 %			
certificate of suitability				
CE marking	Yes			
UL approval	Yes			
CSA approval	Yes			
product component is supported				
HMI-Standard	Yes			
HMI-High Feature	Yes			
product feature integrated bypass contact system	Yes			
number of controlled phases	2			

trin alace	
trip class	CLASS 10A / 10E (preset) / 20E; acc. to IEC 60947-4-2
buffering time in the event of power failure	100
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
reference code acc. to IEC 81346-2	Q
product function	
<ul> <li>ramp-up (soft starting)</li> </ul>	Yes
<ul> <li>ramp-down (soft stop)</li> </ul>	Yes
Soft Torque	Yes
<ul> <li>adjustable current limitation</li> </ul>	Yes
<ul> <li>pump ramp down</li> </ul>	Yes
<ul> <li>intrinsic device protection</li> </ul>	Yes
<ul> <li>motor overload protection</li> </ul>	Yes; Full motor protection (thermistor motor protection and electronic 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
<ul> <li>communication function</li> </ul>	Yes
<ul> <li>operating measured value display</li> </ul>	Yes; Only in conjunction with special accessories
error logbook	Yes; Only in conjunction with special accessories
<ul> <li>via software parameterizable</li> </ul>	No
<ul> <li>via software configurable</li> </ul>	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard communication
	module
<ul> <li>voltage ramp</li> </ul>	Yes
torque control	No
<ul> <li>analog output</li> </ul>	No
Power Electronics	
operational current	
<ul> <li>at 40 °C rated value</li> </ul>	171 A
<ul> <li>at 50 °C rated value</li> </ul>	153 A
<ul> <li>at 60 °C rated value</li> </ul>	141 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	
• at 230 V at 40 °C rated value	45 kW
• at 400 V at 40 °C rated value	90 kW
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
adjustable motor current	
<ul> <li>at rotary coding switch on switch position 1</li> </ul>	81 A
<ul> <li>at rotary coding switch on switch position 2</li> </ul>	87 A
• at rotary county switch on switch position 2	
<ul> <li>at rotary coding switch on switch position 2</li> <li>at rotary coding switch on switch position 3</li> </ul>	93 A
• at rotary coding switch on switch position 3	93 A
<ul><li> at rotary coding switch on switch position 3</li><li> at rotary coding switch on switch position 4</li></ul>	93 A 99 A
<ul> <li>at rotary coding switch on switch position 3</li> <li>at rotary coding switch on switch position 4</li> <li>at rotary coding switch on switch position 5</li> </ul>	93 A 99 A 105 A
<ul> <li>at rotary coding switch on switch position 3</li> <li>at rotary coding switch on switch position 4</li> <li>at rotary coding switch on switch position 5</li> <li>at rotary coding switch on switch position 6</li> <li>at rotary coding switch on switch position 7</li> </ul>	93 A 99 A 105 A 111 A
<ul> <li>at rotary coding switch on switch position 3</li> <li>at rotary coding switch on switch position 4</li> <li>at rotary coding switch on switch position 5</li> <li>at rotary coding switch on switch position 6</li> </ul>	93 A 99 A 105 A 111 A 117 A

<ul> <li>at rotary coding switch on switch position 10</li> </ul>	135 A
<ul> <li>at rotary coding switch on switch position 11</li> </ul>	141 A
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	147 A
<ul> <li>at rotary coding switch on switch position 13</li> </ul>	153 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	159 A
at rotary coding switch on switch position 15	165 A
<ul> <li>at rotary coding switch on switch position 16</li> <li>at rotary coding switch on switch position 16</li> </ul>	171 A
minimum	81 A
minimum load [%]	
	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	20.144
• at 40 °C after startup	29 W
• at 50 °C after startup	23 W
at 60 °C after startup	20 W
power loss [W] at AC at current limitation 350 %	
<ul> <li>at 40 °C during startup</li> </ul>	1 751 W
<ul> <li>at 50 °C during startup</li> </ul>	1 478 W
• at 60 °C during startup	1 308 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
<ul> <li>control supply voltage at AC at 50 Hz rated value</li> <li>control supply voltage at AC at 60 Hz rated value</li> </ul>	24 V 24 V
relative negative tolerance of the control supply	-20 %
voltage at AC at 50 Hz	20 /0
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage frequency	-10 %
relative positive tolerance of the control supply voltage frequency	10 %
<ul> <li>control supply voltage at DC rated value</li> </ul>	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	
Installation/ mounting/ dimensions	
instanation/ mounting/ unitensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting

	surface +/- 22.5° tiltable to the front and back			
fastening method	screw fixing			
height	198 mm			
width	120 mm			
depth	249 mm			
required spacing with side-by-side mounting				
• forwards	10 mm			
backwards	0 mm			
• upwards	100 mm			
• downwards	75 mm			
• at the side	5 mm			
weight without packaging	5.2 kg			
Connections/ Terminals				
type of electrical connection				
for main current circuit	busbar connection			
for control circuit	screw-type terminals			
width of connection bar maximum	25 mm			
wire length for thermistor connection	20 1111			
• with conductor cross-section = 0.5 mm <sup>2</sup> maximum	50 m			
<ul> <li>with conductor cross-section = 0.5 mm² maximum</li> <li>with conductor cross-section = 1.5 mm² maximum</li> </ul>	150 m			
• with conductor cross-section = 2.5 mm <sup>2</sup> maximum	250 m			
type of connectable conductor cross-sections	200 m			
for main contacts for box terminal using the front clamping point solid	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 mm <sup>2</sup>			
<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			
<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			
<ul> <li>for DIN cable lug for main contacts finely stranded</li> </ul>	25 120 mm²			
type of connectable conductor cross-sections				
<ul> <li>for control circuit solid</li> </ul>	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)			
<ul> <li>for control circuit finely stranded with core end</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)			

processing	
at AWG cables for control circuit solid	1x (20 12), 2x (20 14)
wire length	TX (20 12), 2X (20 14)
between soft starter and motor maximum	800 m
<ul> <li>at the digital inputs at AC maximum</li> </ul>	1 000 m
tightening torque	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	10 14 N·m
	0.8 12 N·m
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	0.0 1.2 N°III
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>ambient temperature 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	
<ul> <li>PROFINET standard</li> </ul>	Yes
EtherNet/IP	Yes
<ul> <li>Modbus RTU</li> </ul>	Yes
	100
Modula RTO     Modula TCP	Yes
Modbus TCP     PROFIBUS	
Modbus TCP	Yes
Modbus TCP     PROFIBUS	Yes
Modbus TCP     PROFIBUS UL/CSA ratings	Yes
Modbus TCP     PROFIBUS UL/CSA ratings manufacturer's article number	Yes
Modbus TCP     PROFIBUS UL/CSA ratings manufacturer's article number     of circuit breaker     — usable for Standard Faults at 460/480 V	Yes Yes
Modbus TCP     PROFIBUS  UL/CSA ratings  manufacturer's article number     of circuit breaker         — usable for Standard Faults at 460/480 V         according to UL         — usable for High Faults at 460/480 V according	Yes Yes Siemens type: 3VA5225, max. 250 A; lq = 10 kA
<ul> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>UL/CSA ratings</li> <li>manufacturer's article number</li> <li>of circuit breaker         <ul> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V according to UL</li> <li>of the fuse</li> <li>usable for Standard Faults up to 575/600 V according to UL</li> </ul> </li> </ul>	Yes Yes Siemens type: 3VA5225, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Type: Class RK5 / K5, max. 400 A; lq = 10 kA
<ul> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>UL/CSA ratings</li> <li>manufacturer's article number         <ul> <li>of circuit breaker</li> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V according to UL</li> <li>of the fuse</li> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> </ul> </li> </ul>	Yes Yes Siemens type: 3VA5225, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA
<ul> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>UL/CSA ratings</li> <li>manufacturer's article number         <ul> <li>of circuit breaker</li> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V according to UL</li> <li>of the fuse</li> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>operating power [hp] for 3-phase motors</li> </ul> </li> </ul>	Yes Yes Siemens type: 3VA5225, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Type: Class RK5 / K5, max. 400 A; lq = 10 kA
<ul> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>UL/CSA ratings</li> <li>manufacturer's article number         <ul> <li>of circuit breaker</li> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V according to UL</li> <li>of the fuse</li> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> </ul> </li> </ul>	Yes Yes Siemens type: 3VA5225, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Type: Class RK5 / K5, max. 400 A; lq = 10 kA Type: Class J, max. 350 A; lq = 100 kA 50 hp
<ul> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>UL/CSA ratings</li> <li>manufacturer's article number         <ul> <li>of circuit breaker</li> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V according to UL</li> <li>of the fuse</li> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>operating power [hp] for 3-phase motors</li> </ul> </li> </ul>	Yes Yes Siemens type: 3VA5225, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Type: Class RK5 / K5, max. 400 A; lq = 10 kA Type: Class J, max. 350 A; lq = 100 kA 50 hp 50 hp
<ul> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>UL/CSA ratings</li> <li>manufacturer's article number         <ul> <li>of circuit breaker</li> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V according to UL</li> <li>of the fuse</li> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> </ul> </li> </ul>	Yes Yes Siemens type: 3VA5225, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Type: Class RK5 / K5, max. 400 A; lq = 10 kA Type: Class J, max. 350 A; lq = 100 kA 50 hp
<ul> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>UL/CSA ratings</li> <li>manufacturer's article number <ul> <li>of circuit breaker</li> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V according to UL</li> </ul> </li> <li>of the fuse <ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> </ul> </li> <li>operating power [hp] for 3-phase motors <ul> <li>at 200/208 V at 50 °C rated value</li> <li>at 220/230 V at 50 °C rated value</li> </ul> </li> </ul>	Yes Yes Siemens type: 3VA5225, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Type: Class RK5 / K5, max. 400 A; lq = 10 kA Type: Class J, max. 350 A; lq = 100 kA 50 hp 50 hp
<ul> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>UL/CSA ratings</li> <li>manufacturer's article number <ul> <li>of circuit breaker</li> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V according to UL</li> </ul> </li> <li>of the fuse <ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> </ul> </li> <li>operating power [hp] for 3-phase motors <ul> <li>at 200/208 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> </ul> </li> </ul>	Yes Yes Siemens type: 3VA5225, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Type: Class RK5 / K5, max. 400 A; lq = 10 kA Type: Class J, max. 350 A; lq = 100 kA 50 hp 50 hp
<ul> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>UL/CSA ratings</li> <li>manufacturer's article number <ul> <li>of circuit breaker</li> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V according to UL</li> </ul> </li> <li>of the fuse <ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> </ul> </li> <li>operating power [hp] for 3-phase motors <ul> <li>at 200/208 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> </ul> </li> <li>Safety related data <ul> <li>protection class IP on the front acc. to IEC 60529</li> <li>touch protection on the front acc. to IEC 60529</li> </ul> </li> </ul>	Yes Yes Siemens type: 3VA5225, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Type: Class RK5 / K5, max. 400 A; lq = 10 kA Type: Class J, max. 350 A; lq = 100 kA 50 hp 50 hp 100 hp
<ul> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>UL/CSA ratings</li> <li>manufacturer's article number <ul> <li>of circuit breaker</li> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V according to UL</li> </ul> </li> <li>of the fuse <ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> </ul> </li> <li>operating power [hp] for 3-phase motors <ul> <li>at 200/208 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> </ul> </li> <li>Safety related data</li> <li>protection class IP on the front acc. to IEC 60529</li> </ul>	Yes Yes Siemens type: 3VA5225, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Type: Class RK5 / K5, max. 400 A; lq = 10 kA Type: Class J, max. 350 A; lq = 100 kA 50 hp 50 hp 100 hp
<ul> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>UL/CSA ratings</li> <li>manufacturer's article number <ul> <li>of circuit breaker</li> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V according to UL</li> </ul> </li> <li>of the fuse <ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> </ul> </li> <li>operating power [hp] for 3-phase motors <ul> <li>at 200/208 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> </ul> </li> <li>Safety related data <ul> <li>protection class IP on the front acc. to IEC 60529</li> <li>touch protection on the front acc. to IEC 60529</li> </ul> </li> </ul>	Yes Yes Siemens type: 3VA5225, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Type: Class RK5 / K5, max. 400 A; lq = 10 kA Type: Class J, max. 350 A; lq = 100 kA 50 hp 50 hp 100 hp
<ul> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>UL/CSA ratings</li> <li>manufacturer's article number         <ul> <li>of circuit breaker</li> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V according to UL</li> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> </ul> </li> <li>operating power [hp] for 3-phase motors         <ul> <li>at 200/208 V at 50 °C rated value</li> <li>at 220/230 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> </ul> </li> <li>Safety related data         <ul> <li>protection class IP on the front acc. to IEC 60529</li> <li>touch protection on the front acc. to IEC 60529</li> </ul> </li></ul>	Yes Yes Siemens type: 3VA5225, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Type: Class RK5 / K5, max. 400 A; lq = 10 kA Type: Class J, max. 350 A; lq = 100 kA 50 hp 50 hp 100 hp
<ul> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>UL/CSA ratings</li> <li>manufacturer's article number         <ul> <li>of circuit breaker</li> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V according to UL</li> <li>of the fuse</li> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>at 200/208 V at 50 °C rated value</li> <li>at 220/230 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> </ul> </li> <li>Safety related data         <ul> <li>protection class IP on the front acc. to IEC 60529</li> <li>touch protection on the front acc. to IEC 60529</li> </ul> </li> <li>ATEX         <ul> <li>certificate of suitability</li> </ul> </li> </ul>	Yes Yes Siemens type: 3VA5225, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Type: Class RK5 / K5, max. 400 A; lq = 10 kA Type: Class J, max. 350 A; lq = 100 kA 50 hp 50 hp 100 hp IP00; IP20 with cover finger-safe, for vertical contact from the front with cover
<ul> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>UL/CSA ratings</li> <li>manufacturer's article number <ul> <li>of circuit breaker</li> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V according to UL</li> <li>of the fuse</li> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> </ul> </li> <li>operating power [hp] for 3-phase motors <ul> <li>at 200/208 V at 50 °C rated value</li> <li>at 200/208 V at 50 °C rated value</li> </ul> </li> <li>at 460/480 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> </ul> <li>Safety related data <ul> <li>protection class IP on the front acc. to IEC 60529</li> <li>touch protection on the front acc. to IEC 60529</li> </ul> </li> <li>ATEX</li>	Yes Yes Siemens type: 3VA5225, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Type: Class RK5 / K5, max. 400 A; lq = 10 kA Type: Class J, max. 350 A; lq = 100 kA 50 hp 50 hp 100 hp IP00; IP20 with cover finger-safe, for vertical contact from the front with cover Yes
<ul> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>UL/CSA ratings</li> <li>manufacturer's article number <ul> <li>of circuit breaker</li> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V according to UL</li> <li>of the fuse</li> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> </ul> </li> <li>operating power [hp] for 3-phase motors <ul> <li>at 200/208 V at 50 °C rated value</li> <li>at 220/230 V at 50 °C rated value</li> </ul> </li> <li>Safety related data <ul> <li>protection class IP on the front acc. to IEC 60529</li> <li>touch protection on the front acc. to IEC 60529</li> </ul> </li> <li>ATEX <ul> <li>IECEx</li> <li>hardware fault tolerance acc. to IEC 61508 relating to</li> </ul></li></ul>	Yes Yes Siemens type: 3VA5225, max. 250 A; lq = 10 kA Siemens type: 3VA52, max. 250 A; lq max = 65 kA Type: Class RK5 / K5, max. 400 A; lq = 10 kA Type: Class J, max. 350 A; lq = 100 kA 50 hp 50 hp 100 hp IP00; IP20 with cover finger-safe, for vertical contact from the front with cover Yes Yes

to ATEX					
Safety Integrity Lev to ATEX	vel (SIL) acc. to IEC 61	508 relating SIL	1		
T1 value for proof IEC 61508 relating	test interval or service to ATEX	life acc. to 3 y			
ertificates/ approva	als				
General Product A	pproval			For use in hazardou	us locations
SP.	() CCC		EHC	IECEx	K ATEX
Declaration of Cor	nformity	Test Certificates		other	
CE EG-Konf.	<u>Miscellaneous</u>	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>	<u>Confirmation</u>	<u>Confirmation</u>
urther information Information- and D	ownloadcenter (Catalo	ogs, Brochures,)	_	_	_

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5056-6TB04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5056-6TB04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5056-6TB04

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5056-6TB04&lang=en

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

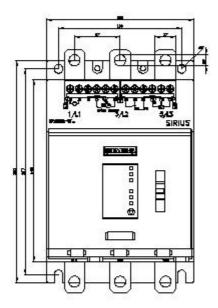
https://support.industry.siemens.com/cs/ww/en/ps/3RW5056-6TB04/char

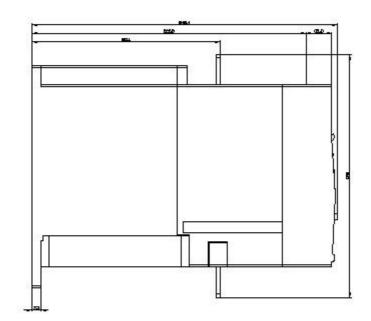
Characteristic: Installation altitude

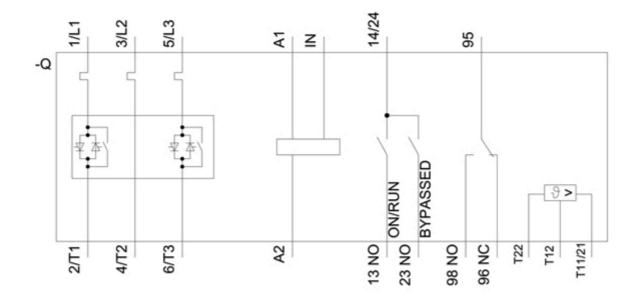
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5056-6TB04&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







last modified:

12/15/2020 🖸