## SIEMENS

## Data sheet

## 3RW5055-6TB15



SIRIUS soft starter 200-600 V 143 A, 110-250 V AC Screw terminals Thermistor input

Figure similar

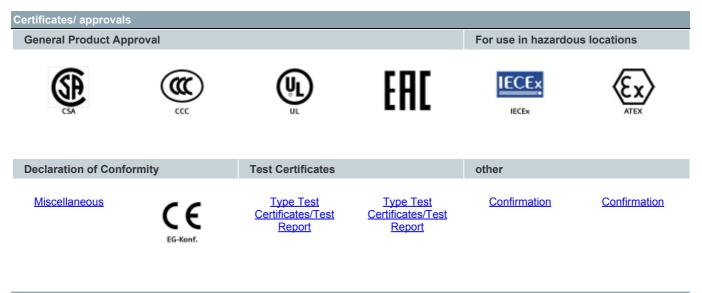
product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW50
manufacturer's article number	
<ul> <li>of standard HMI module usable</li> </ul>	3RW5980-0HS01
<ul> <li>of high feature HMI module usable</li> </ul>	3RW5980-0HF00
<ul> <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 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>	3RT1055
<ul> <li>of line contactor usable up to 690 V</li> </ul>	3RT1055
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
•	CLASS TOAT TOE (preset) / 20E, acc. to TEC 50947-4-2
<ul> <li>buffering time in the event of power failure</li> <li>for main current circuit</li> </ul>	100 ms
for control circuit	100 ms
	600 V
insulation voltage rated value	3, acc. to IEC 60947-4-2
degree of pollution impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 800 V
service factor	
reference code acc. to IEC 81346-2	Q
product function	
•	Yes
<ul> <li>ramp-up (soft starting)</li> <li>ramp down (soft star)</li> </ul>	Yes
<ul> <li>ramp-down (soft stop)</li> <li>Soft Torque</li> </ul>	Yes
•	Yes
adjustable current limitation	Yes
pump ramp down     intrincip dowing protection	
intrinsic device protection	Yes
<ul> <li>motor overload protection</li> </ul>	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
<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
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 positive tolerance of the operating voltage	10 %
operating power for 3-phase motors	07.111/
• 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
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	68 A
<ul> <li>at rotary coding switch on switch position 1</li> <li>at rotary coding switch on switch position 2</li> </ul>	68 A 73 A
<ul> <li>at rotary coding switch on switch position 2</li> <li>at rotary coding switch on switch position 3</li> </ul>	73 A 78 A
<ul> <li>at rotary coding switch on switch position 3</li> </ul>	10 A
a at rotany opding switch on switch position 4	83 A
<ul> <li>at rotary coding switch on switch position 4</li> <li>at rotary coding switch on switch position 5</li> </ul>	83 A
• at rotary coding switch on switch position 5	88 A
<ul> <li>at rotary coding switch on switch position 5</li> <li>at rotary coding switch on switch position 6</li> </ul>	88 A 93 A
• at rotary coding switch on switch position 5	88 A

<ul> <li>at rotary coding switch on switch position 9</li> </ul>	108 A
<ul> <li>at rotary coding switch on switch position 10</li> </ul>	113 A
<ul> <li>at rotary coding switch on switch position 11</li> </ul>	118 A
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	123 A
<ul> <li>at rotary coding switch on switch position 13</li> </ul>	128 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	133 A
at rotary coding switch on switch position 14     at rotary coding switch on switch position 15	138 A
	143 A
<ul> <li>at rotary coding switch on switch position 16</li> <li>minimum</li> </ul>	68 A
minimum load [%] power loss [W] for rated value of the current at AC	15 %; Relative to smallest settable le
	00.14
• 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 %	
<ul> <li>at 40 °C during startup</li> </ul>	1 336 W
<ul> <li>at 50 °C during startup</li> </ul>	1 134 W
● at 60 °C during startup	1 007 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
control supply voltage at AC at 50 Hz	110 250 V
<ul> <li>control supply voltage at AC at 60 Hz</li> </ul>	110 250 V
relative negative tolerance of the control supply	-15 %
voltage at AC at 50 Hz	-15 /0
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %
relative positive tolerance of the control supply	10 %
voltage at AC at 60 Hz	
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 %
control supply current in standby mode rated value	30 mA
holding current in bypass operation rated value	80 mA
locked-rotor current at close of bypass contact maximum	2.5 A
inrush current peak at application of control supply voltage maximum	12.2 A
duration of inrush current peak at application of control supply voltage	2.2 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 2 2 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	
<b>·</b>	
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	
• forwards	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	
<ul> <li>for main current circuit</li> </ul>	busbar connection
for control circuit	screw-type terminals
width of connection bar maximum	25 mm
wire length for thermistor connection	
<ul> <li>with conductor cross-section = 0.5 mm<sup>2</sup> maximum</li> </ul>	50 m
<ul> <li>with conductor cross-section = 1.5 mm<sup>2</sup> maximum</li> </ul>	150 m
• with conductor cross-section = 2.5 mm <sup>2</sup> 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 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 processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
at AWG cables for control circuit solid	1x (20 12), 2x (20 14)
<ul><li>wire length</li><li>between soft starter and motor maximum</li></ul>	800 m

tightening tarque <ul> <li>             for main contracts with screw-type terminals             for main contracts             for main contracts with screw-type terminals             solution             for main contracts             for main contracts             for main contracts             for main screen terminals             for main screen terminals</li></ul>	• at the digital inputs at AC maximum	1 000 m
• for mail contacts with screw-type terminals         if or mail contacts with screw-type         terminals         • for auxiliary and control contacts with screw-type         terminals         • for auxiliary and control contacts with screw-type         terminals         • for auxiliary and control contacts with screw-type         terminals         • for auxiliary and control contacts with screw-type         terminals         • for auxiliary and control contacts with screw-type         terminals         • for auxiliary and control contacts with screw-type         terminals         • for auxiliary and control contacts with screw-type         terminals         • for auxiliary and control contacts with screw-type         terminals         • for auxiliary and control contacts with screw-type         terminals         • for auxiliary and control contacts with screw-type         terminals         • for auxiliary and control contacts with screw-type         terminals         • for auxiliary and control contacts with screw-type         terminals         • for auxiliary and control contacts with screw-type         terminals         • arbient temperature during aperation         • auxiliary and control contacts with screw-type         • during storage acc. to IEC 60721         • during storage acc. to IEC 60721         • during transport acc. to IEC 60721         • PROFINUS Protocol          • Communication module is supported         • PROFINUS Protocol          • Control during transport acc. to IEC 60721         • during transport acc. to IEC 60729         • during to relation the format acc. to IEC	at the digital inputs at AC maximum	
• for auxiliary and control contacts with screw-type         terminals          • for main contacts with screw-type terminals         • during storage and transport         • during therefore terminals         • during therefore terminals terminal main terminal terminals         • during ter		10 14 N·m
terminals       9         tiphoning torque [DFin]       89         for main contacts with screw-type       7         ambient conditions       5         instalation altude at height above sea level maximum       5         instalation altude at height above sea level maximum       5         instalation altude at height above sea level maximum       5         instalation altude at height above sea level maximum       5         instalation altude at height above sea level maximum       5         instalation altude at height above sea level maximum       5         instalation altude at height above sea level maximum       25         instalation altude at height above sea level maximum       -25         instalation altude at height above sea level maximum       -26         induring storage acc. to IEC 60721       386 (no les formation, only cocasional condensation), 363 (no sait mish), 152 (sand mu no get into the devices), 1M4         induring transport sea, to IEC 60721       242, 201, 251, 231, 240 (max, fail height 0.3 m)         acc. to IEC 60721       242, 201, 251, 240 (max, fail height 0.3 m)         acc. to IEC 60721       242, 201, 251, 240 (max, fail height 0.3 m)         according to UL       Yes         Modbus RTU       Yes         Modbus RTU       Yes         Instret tore of altubalis t		
every statistical and control contrection conte for control control control control control control c	5 51	
• for auxiliary and control contracts with screw-type terminals         7 10.3 lbf in           Ambient conditions         7 10.3 lbf in           • ambient temperature during porrelation • ambient temperature during storage and transport         -25 +60 °C; Please observe derating at temperatures of 40 °C or above           • ambient temperature during storage and transport         -40 +80 °C           • during storage acc. to IEC 60721         3K6 (no ice formation, only occasional condensation), 3C3 (no salt mask), 3S2 (and must not get into the devices), 3M6           • during storage acc. to IEC 60721         3K6 (noi ce formation, only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 3M6           • during transport acc: to IEC 60721         2K2, 2C1, 2S1, 2M2 (max, fail height 0.3 m)           • EMC emitted interference         acc. to IEC 60974 -42: Class A           Communication ondule is supported         •PROFIBUS           • PROFIBUS         Yes <b>UICSA ratings</b> Yes           matibe for Standard Faults at 460480 V according to UL         Silemens type: 3VA5225, max, 250 A; Ig = 10 KA           • at 220/230 V at 50 °C rated value         40 hp           • at 220/230 V at 50 °C rated value         40 hp           • at 220/230 V at 50 °C rated value         40 hp           • at 220/230 V at 50 °C rated value         40 hp           • at 220/230 V at 50 °C rate	tightening torque [lbf·in]	
Ambinet conditions            • ambient conditions             • ambient conditions             • ambient temperature during operation             • ambient temperature during storage and transport             • ambient temperature during storage and transport             • during operation acc. to IEC 60721             • during storage acc. to IEC 60721             • during transport acc. to IEC 60721	<ul> <li>for main contacts with screw-type terminals</li> </ul>	89 124 lbf·in
Ambient conditions       5 000 m; Derating as of 1000 m, see manual         • ambient temperature during operation       -40+80 °C         • ambient temperature during storage and transport       -40+80 °C         • during operation ac. to IEC 60721       -46+80 °C         • during storage ac. to IEC 60721       -46+80 °C         • during storage ac. to IEC 60721       -46+80 °C         • during storage ac. to IEC 60721       -46+80 °C         • during transport ac. to IEC 60721       -46+80 °C         • EMC emitted Interference       ac to IEC 6097-4-2. Class A         Communication module is supported       -Yes         • PROFIBUS       Yes         • Modbus RTU       Yes         • Modbus RTU       Yes         • Modbus RTU       Yes         • Display       Yes         • PROFIBUS       Yes         • Display       Yes         • ad 200208 V at 50 °C rated value       40 hp         • at 220230 V at 50 °C rated		7 10.3 lbf·in
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         • ambient temperature during storage and transport       -40+80 °C         • during storage acc. to IEC 60721       3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside the devices), 1M4         • during transport acc. to IEC 60721       2K4 (no ice formation, only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4         • during transport acc. to IEC 60721       2K4 (2, 201, 251, 24K) (2max, fail height 0.3 m)         • EMCFINET standard       Yes         • EmberNotiP       Yes         • Modbus RTU       Yes         • Modbus RTD       Yes         • Nodobus RTU       Yes         • Of circuit breaker       - usable for Standard Faults at 460/480 V according to UL         • of circuit breaker       - usable for Standard Faults at 460/480 V according to UL         • of the fuse       - usable for Standard Faults at 460/480 V according to UL         • of according to UL       - usable for Standard Faults at 460/480 V according to UL         • of the fuse       - usable for Standard Faults at 460/480 V according to UL         • according to UL       - usable for Standard Faults at 460/480 V accord		
ambient temperature during operation     ambient temperature during storage and transport     advire     ambient temperature during storage and transport     advire     ambient temperature during storage and transport     advire     advi		
ambient temperature during storage and transport environmental category e during operation acc. to IEC 60721 eduring storage acc. to IEC 60721 eduring storage acc. to IEC 60721 eduring storage acc. to IEC 60721 eduring transport acc. to IEC 60721 EdM emitted redvices), 3M0 tK8 (on ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside the devices), 3M0 tK8 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 3M0 eduring transport acc. to IEC 60721 EdM emitted interference acc. to IEC 60947-4-2: Class A Communication/ Protocol communication/ Protocol communication/ Protocol communication/ Protocol communication/ Protocol communication/ Protocol communication protocol protocol communication communication communication communication cof the fues communication communication communication communicatio	installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see manual
environmental category <ul> <li>during operation acc. to IEC 60721</li> <li>during storage acc. to IEC 60721</li> <li>during storage acc. to IEC 60721</li> <li>during transport acc. to IEC 60721</li> <li>EMC emitted interference</li> <li>acc. to IEC 60947-4-2. Class A</li> </ul> <li>Communication module is supported</li> <li>PROFINET standard</li> <li>Yes</li> <li>EtherWit/P</li> <li>Yes</li> <li>Modbus RTU</li> <li>Yes</li> <li>PROFINET standard</li> <li>Yes</li> <li>PROFIBUS</li> <li>UL/CSA tatings</li> <li>manufacturer's article number</li> <ul> <li>of the fuse</li> <li></li></ul>	<ul> <li>ambient temperature during operation</li> </ul>	above
during operation acc. to IEC 60721     during storage acc. to IEC 60721     during storage acc. to IEC 60721     during transport acc. to IEC 60721     during transport acc. to IEC 60721     ZK2, 221, 282, 282, 184, 218, 181 height 0.3 m) EMC emitted interference     acc. to IEC 60947.4.2: Class A Communication module is supported     emitted interference     acc. to IEC 60947.4.2: Class A Communication Protocol Communication module is supported     emitted interference     acc. to IEC 60947.4.2: Class A Communication module is supported     emitted interference     acc. to IEC 60947.4.2: Class A Communication module is supported     emitted interference     acc. to IEC 60947.4.2: Class A Communication module is supported     emitted interference     acc. to IEC 60947.4.2: Class A Communication module is supported     emitted interference     acc. to IEC 60947.4.2: Class A Communication module is supported     emitted interference     acc. to IEC 60947.4.2: Class A Communication module is supported     emitted interference     acc. to IEC 60947.4.2: Class A Communication module is supported     emitted interference     acc. to IEC 60947.4.2: Class A Communication module is supported     emitted interference     according to U.     according		-40 +80 °C
• during storage acc. to IEC 60721       mist), 352 (sand must not get into the devices), 3M6         • during transport acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fail height 0.3 m)         • during transport acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fail height 0.3 m)         • Communication module is supported       • RCPINET standard         • RROFINET standard       Yes         • Modbus TCP       Yes         • according to UL       - usable for Standard Faults at 460/480 V         according to UL       - usable for Standard Faults up to 575/600 V         - usable for High Faults up to 575/600 V       Type: Class RK5 / K5, max. 350 A; lq = 10 kA         according to UL       - usable for Taide value       40 hp         • at 220/230 V at 50 °C rated value       40 hp         • at 220/230 V at 50 °C rat		
• during transport acc. to IEC 60721     2K2, 2C1, 2S1, 2M2 (max. fail height 0.3 m)       EMC emitted interference     acc. to IEC 60947-4.2; Class A       Communicationr Protocol        communicationr Protocol        communicationr Module is supported     • PROFINET standard       • PROFINET standard     Yes       • Modubus RTU     Yes       • Modubus TCP     Yes       • UL/SA ratings     Type: Class RK5 / K5, max. 250 A; Iq = 10 kA       according to UL     Type: Class J, max. 350 A; Iq = 10 kA       • according to UL     Type: Class J, max. 350 A; Iq = 10 kA       • at 220/230 V at 50 °C rated value     40 hp       • at 220/230 V at 50 °C rated value     100 hp       • at 220/230 V at 50 °C rated value     125		mist), 3S2 (sand must not get into the devices), 3M6
EMC emitted interference       acc. to IEC 60947-4-2: Class A         Communication/ Protocol         communication module is supported            • PROFINET standard       Yes            • EtherNext/P       Yes            • Modbus TCP       Yes            • Modbus TCP       Yes            • Modbus TCP       Yes            • Modbus TCP       Yes            • Individue of the sumber              • of circuit breaker               - usable for Standard Faults at 460/480 V         according to UL           Siemens type: 3VA5225, max. 250 A; lq = 10 kA             - usable for Standard Faults up to 575/600 V         according to UL           Type: Class RK5 / K5, max. 350 A; lq = 10 kA             operating power (hp) for 3-phase motors           40 hp             • at 200/208 V at 50 °C rated value           40 hp             • at 460/480 V at 50 °C rated value           40 hp             • at 460/480 V at 50 °C rated value           40 hp             • at 200/208 V at 50 °C rated value           40 hp             • at 202/208 V at 50 °C rated value           100 hp		not get inside the devices), 1M4
Communication module is supported     Yes          • PROFINET standard       • FROFINET standard       • FROFINET standard       • FROFINET standard       • Yes           • Modbus RTU       • Modbus TCP       • PROFIBUS      Yes           • Modbus TCP       • Of circuit broaker       • Of circuit broaker       • Usable for Standard Faults at 460/480 V       according to UL       • ousable for Standard Faults at 460/480 V       according to UL       • ousable for Standard Faults up to 575/600 V       according to UL       • usable for Standard Faults up to 575/600 V       according to UL       • usable for Standard Faults up to 575/600 V       according to UL       • usable for Standard Faults up to 575/600 V       according to UL       • usable for Standard Faults up to 575/600 V       according to UL       • 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 Standard Faults up to 575/600 V       according to UL       • usable for Standard Faults up to 575/600 V       according to UL       • usable for Standard Faults up to 575/600 V       according to UL       • usable for Standard Faults up to 575/600 V       according to UL       • 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 Standard Faults up to 575/600 V       according to UL       • usable for Standard Faults up to 575/600 V       according to UL       • at 220/230 V at 50 °C rated value       40 hp       • at 220/230 V at 50 °C rated value       100 hp       • at 420/480 V at 50 °C rated value       100 hp       • at 675/600 V at 50 °C rated value       100 hp       • at 675/600 V at 50 °C rated value       100 hp       • at 675/600 V at 50 °C rated value       100 hp       • ATEX       • ECE k       • ECE k       • ATEX		
communication module is supported     Yes          • PROFINET standard       Yes          • PROFINET standard       Yes          • Modbus RTU       Yes         • Modbus TCP       Yes         • PROFIBUS       Yes         ///CSA ratings       Yes         manufacturer's article number       • of circuit breaker         - usable for Standard Faults at 460/480 V       Siemens type: 3VA5225, max. 250 A; lq = 10 kA         according to UL       • of the fuse         - usable for Standard Faults up to 575/600 V       Type: Class RK5 / K5, max. 350 A; lq = 10 kA         coparating power (hpi) for 3-phase motors       • at 200/230 V at 50 °C rated value         • at 220/230 V at 50 °C rated value       40 hp         • at 220/230 V at 50 °C rated value       100 hp         • at 220/230 V at 50 °C rated value       125 hp         Safety related data       IP00; IP20 with cover         protection class IP on the front acc. to IEC 60529       IP00; IP20 with cover         touch protection on the front acc. to IEC 60529       IP00; IP20 with cover         fuelts       Yes         • IECEx       Yes         • IECEx       Yes         • IECEx       Yes         PFHD with high demand rate acc. to IEC 61508 relating to ATEX       0.009		acc. to IEC 60947-4-2: Class A
<ul> <li>PROFINET standard</li> <li>PROFINET standard</li> <li>EtherNet/IP</li> <li>Yes</li> <li>Modbus RTU</li> <li>Wodbus TCP</li> <li>Yes</li> <li>PROFIBUS</li> <li>Yes</li> <li>UL/CSA ratings</li> <li>UL/CSA ratings</li> <li>UL/CSA ratings</li> <li>UL/CSA ratings</li> <li>UL/CSA ratings</li> <li>UL/CSA ratings</li> <li>Siemens type: 3VA5225, max. 250 A; Iq = 10 kA</li> <li>of circuit breaker</li> <li>- usable for Standard 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> <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> <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 at 50 °C rated value</li> <li>40 hp</li> <li>at 460/480 V at 50 °C rated value</li> <li>100 hp</li> <li>at 575/600 V at 50 °C rated value</li> <li>100 hp</li> <li>at 575/600 V at 50 °C rated value</li> <li>100 hp</li> <li>at 575/600 V at 50 °C rated value</li> <li>125 hp</li> <li>Safety related data</li> <li>- protection on the front acc. to IEC 60529</li> <li>IPO0; IP20 with cover</li> <li>- fortware fault tolerance acc. to IEC 61508 relating to ATEX</li> <li>- ATEX</li> <li>- PFDarg with low demand rate acc. to IEC 61508 relating to ATEX</li> <li>- PFDarg with low demand rate acc. t</li></ul>		
• EtherNet/IP     Yes       • Modbus RTU     Yes       • Modbus TCP     Yes       • PROFIBUS     Yes <b>UL/CSA ratings</b> Yes       manufacturer's article number     • of circuit breaker       - usable for Standard Faults at 460/480 V according to UL.     Siemens type: 3VA5225, max. 250 A; Iq = 10 kA       • of the fuse     - usable for Standard Faults up to 575/600 V according to UL.     Type: Class RK5 / K5, max. 350 A; Iq = 10 kA       • outpet for High Faults up to 575/600 V according to UL.     - usable for fligh Faults up to 575/600 V according to UL.     Type: Class RK5 / K5, max. 350 A; Iq = 10 kA       • outpet figh Faults up to 575/600 V according to UL.     - usable for Crated value     40 hp       • at 200/280 V at 50 °C rated value     40 hp     + at 220/230 V at 50 °C rated value     100 hp       • at 200/280 V at 50 °C rated value     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     IP00; IP20 with cover       • ATEX     Yes       • ATEX     Yes       • IECEx     Yes       • ATEX     Yes       • IECEx     Yes       • IECEx     Yes       • IECEx     Yes       • ATEX     Yes       • IECEx     0.09 <td< th=""><td></td><td></td></td<>		
Modbus RTU     Ves     Modbus TCP     Yes     Yes     Yes     Yes     Yes     Yes     Yes     Yes     VI/CSA ratios      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     - 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     - usable for High Faults up to 575/600 V     according to UL     - usable for High For 3-phase motors     • at 200/208 V at 50 °C rated value     40 hp     • at 420/230 V at 50 °C rated value     40 hp     • at 420/480 V at 50 °C rated value     40 hp     • at 420/230 V at 50 °C rated value     40 hp     • at 420/480 V at 50 °C rated value     100 hp     • at 450 °C rated value     100 hp     • at 575/600 V at 50 °C rated value     100 hp     • at 450 °C rated value     100 hp     • at 575/600 V at 50 °C rated value     100 hp     • at 450 °C rated value     100 hp     • at 450 °C rated value     100 hp     • at 575/600 V at 50 °C rated value     100 hp     • at 575/600 V at 50 °C rated value     100 hp     • at 450 °C rated value     100 hp     • at 450 °C rated value     100 hp     • at 450 °C rated value     100 hp     • at 575/600 V at 50 °C rated value     100 hp     • at 450 °C rated value     0 hp     • at 450 °C rated value     • protectin on the front acc. to IEC 61508     relating to ATE		
<ul> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>Yes</li> <li>VICSA ratings</li> <li>manufacturer's article number</li> <li>of circuit breaker</li> <li>- usable for Standard 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>outhe 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 Standard Faults up to 575/600 V according to UL</li> <li>- usable for Jigh Faults up to 575/600 V according to UL</li> <li>- usable for Jigh Faults up to 575/600 V according to UL</li> <li>- usable for Jigh Faults up to 575/600 V according to UL</li> <li>- usable for Jigh Faults up to 575/600 V according to UL</li> <li>- usable for Jigh Faults up to 575/600 V according to UL</li> <li>- usable for Jigh Faults up to 575/600 V according to UL</li> <li>- usable for Jigh Faults up to 575/600 V according to UL</li> <li>- usable for Jigh Faults up to 575/600 V according to UL</li> <li>- usable for Standard Faults up to 575/600 V according to UL</li> <li>- usable for Crated value</li> <li>- tat 200/208 V at 50 °C rated value</li> <li>- tat 460/480 V at 50 °C rated value</li> <li>- tat 460/480 V at 50 °C rated value</li> <li>- tat 50 °C rated value</li> <li>- tat 50 °C rated value</li> <li>- tat 200 °C rated value</li> <li>- tat value for proof test interval or service life acc. to</li> <li>- a TEX</li> <li>- a TEX</li> <li>- a TEX</li> <li>- a TEX</li> <li>- a tat value for proof test interval or service life acc. to</li> <li>- a tat value in</li></ul>		
PROFIBUS     Yes      IduCSA ratings      manufacturer's article number         of circuit breaker        usable for Standard Faults at 460/480 V         according to UL         of the fuse		
UL/CSA ratings         manufacturer's article number         • of circuit breaker		
manufacturer's article number         • of circuit breaker		Yes
• of circuit breaker		
according to UL     • of the fuse     Type: Class RK5 / K5, max. 350 A; lq = 10 kA       usable for Standard Faults up to 575/600 V according to UL.     Type: Class RK5 / K5, max. 350 A; lq = 10 kA       usable for High Faults up to 575/600 V according to UL.     Type: Class J, max. 350 A; lq = 100 kA       operating power [hp] for 3-phase motors     40 hp       • at 220/230 V at 50 °C rated value     40 hp       • at 460/480 V at 50 °C rated value     100 hp       • at 460/480 V at 50 °C rated value     100 hp       • at 575/600 V at 50 °C rated value     125 hp       Safety related data     Inprotection on the front acc. to IEC 60529       protection class IP on the front acc. to IEC 60529     Inprovertical contact from the front with cover       ATEX     Yes       • IECEx     0.09       • PFDavg with low demand rate acc. to IEC 61508       relating to ATEX     0.000009 1/h       Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX       T1 value for proof test interval or service life acc. to     3 y		Signers type: $31/45225$ may $250$ A· $la = 10$ kA
	according to UL	oloniono type. ovnozzo, max. zou n, iq - io th
according to UL     — usable for High Faults up to 575/600 V       according to UL     Type: Class J, max. 350 A; Iq = 100 kA       operating power [hp] for 3-phase motors     40 hp       • at 200/208 V at 50 °C rated value     40 hp       • at 220/230 V at 50 °C rated value     40 hp       • at 460/480 V at 50 °C rated value     100 hp       • at 575/600 V at 50 °C rated value     100 hp       • at 575/600 V at 50 °C rated value     100 hp       • at 575/600 V at 50 °C rated value     100 hp       • at 575/600 V at 50 °C rated value     100 hp       • at 575/600 V at 50 °C rated value     100 hp       • at 575/600 V at 50 °C rated value     100 hp       • at 575/600 V at 50 °C rated value     125 hp       Safety related data     IPO0; IP20 with cover       funct protection on the front acc. to IEC 60529     IPO0; IP20 with cover       touch protection on the front acc. to IEC 60529     Inger-safe, for vertical contact from the front with cover       ATEX     Yes       • ATEX     Yes       • IECEx     Yes       hardware fault tolerance acc. to IEC 61508 relating to ATEX     0.09       PFDavg with low 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       Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX     SIL1		Type: Class RK5 / K5, max, 350 $\Delta$ : ld = 10 k $\Delta$
	•	13pc. 01a55 1110 / 110, 111ax. 550 A, 14 = 10 KA
according to ULAn an	-	Type: Class J, max. 350 A; lq = 100 kA
<ul> <li>at 200/208 V at 50 °C rated value</li> <li>at 220/230 V at 50 °C rated value</li> <li>40 hp</li> <li>at 220/230 V at 50 °C rated value</li> <li>40 hp</li> <li>at 460/480 V at 50 °C rated value</li> <li>100 hp</li> <li>at 575/600 V at 50 °C rated value</li> <li>125 hp</li> </ul> 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 <ul> <li>ATEX</li> <li>Yes</li> <li>IECEx</li> <li>Yes</li> <li>IECEx</li> <li>Yes</li> </ul> hardware fault tolerance acc. to IEC 61508 relating to ATEX PFDavg with low demand rate acc. to EN 62061 relating to ATEX PFHD with high demand rate acc. to IEC 61508 relating to ATEX Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX T1 value for proof test interval or service life acc. to 3 y	according to UL	
<ul> <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> <li>at 575/600 V at 50 °C rated value</li> <li>25 hp</li> <li>Safety related data</li> <li>protection class IP on the front acc. to IEC 60529</li> <li>IP00; IP20 with cover</li> <li>finger-safe, for vertical contact from the front with cover</li> <li>ATEX</li> <li>Certificate of suitability         <ul> <li>ATEX</li> <li>Yes</li> <li>IECEx</li> <li>Yes</li> <li>ATEX</li> <li>Yes</li> </ul> </li> <li>PFDavg with low demand rate acc. to IEC 61508 relating to ATEX</li> <li>PFDD with high demand rate acc. to EN 62061 relating to ATEX</li> <li>Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX</li> <li>T1 value for proof test interval or service life acc. to</li> <li>3 y</li> </ul>		
<ul> <li>at 460/480 V at 50 °C rated value</li> <li>at 575/600 V at 50 °C rated value</li> <li>125 hp</li> <li>Safety related data</li> <li>protection class IP on the front acc. to IEC 60529</li> <li>IP00; IP20 with cover</li> <li>finger-safe, for vertical contact from the front with cover</li> <li>ATEX</li> <li>certificate of suitability         <ul> <li>ATEX</li> <li>Yes</li> <li>IECEx</li> <li>Yes</li> <li>IECEx</li> <li>Yes</li> </ul> </li> <li>hardware fault tolerance acc. to IEC 61508 relating to ATEX</li> <li>PFDavg with low demand rate acc. to EN 62061 relating to ATEX</li> <li>PFHD with high demand rate acc. to IEC 61508 relating to ATEX</li> <li>Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX</li> <li>T1 value for proof test interval or service life acc. to 3 y</li> </ul>	• at 200/208 V at 50 °C rated value	
• at 575/600 V at 50 °C rated value125 hpSafety related dataIP00; IP20 with coverprotection class IP on the front acc. to IEC 60529IP00; IP20 with covertouch protection on the front acc. to IEC 60529finger-safe, for vertical contact from the front with coverATEXYescertificate of suitability • ATEX • IECExYeshardware fault tolerance acc. to IEC 61508 relating to ATEX0PFDavg with low demand rate acc. to IEC 61508 relating to ATEX0.09PFHD with high demand rate acc. to EN 62061 relating to ATEX0.000009 1/hSafety Integrity Level (SIL) acc. to IEC 61508 relating to ATEXSilL1T1 value for proof test interval or service life acc. to 3 y3 y		
Safety related data       IP00; IP20 with cover         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 <ul> <li>ATEX</li> <li>Yes</li> <li>IECEx</li> <li>Yes</li> <li>ATEX</li> <li>PFDavg with low demand rate acc. to IEC 61508 relating to ATEX</li> <li>PFHD with high demand rate acc. to EN 62061 relating to ATEX</li> <li>Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX</li> <li>Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX</li> <li>T1 value for proof test interval or service life acc. to</li> <li>3 y</li> </ul>		
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 <ul> <li>ATEX</li> <li>Yes</li> <li>IECEx</li> <li>Yes</li> <li>Arex</li> <li>PFDavg with low demand rate acc. to IEC 61508 relating to ATEX</li> <li>PFHD with high demand rate acc. to EN 62061 relating to ATEX</li> <li>PFHD with high demand rate acc. to IEC 61508 relating to ATEX</li> <li>Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX</li> <li>SilL1</li> <li>SilL1</li> <li>SilL1</li> </ul>		125 hp
touch protection on the front acc. to IEC 60529       finger-safe, for vertical contact from the front with cover         ATEX       certificate of suitability       • ATEX         • ATEX       Yes         • IECEx       Yes         hardware fault tolerance acc. to IEC 61508 relating to ATEX       0         PFDavg with low demand rate acc. to IEC 61508       0.09         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       3 y		
ATEX         certificate of suitability         • ATEX         • IECEx         hardware fault tolerance acc. to IEC 61508 relating to         ATEX         PFDavg with low demand rate acc. to IEC 61508         0.09         relating to ATEX         PFHD with high demand rate acc. to EN 62061 relating         0.000009 1/h         Safety Integrity Level (SIL) acc. to IEC 61508 relating         Safety Integrity Level (SIL) acc. to IEC 61508 relating         T1 value for proof test interval or service life acc. to         3 y	· ·	
certificate of suitability • ATEX • IECExYes Yeshardware fault tolerance acc. to IEC 61508 relating to ATEX0PFDavg with low demand rate acc. to IEC 61508 relating to ATEX0.09PFHD with high demand rate acc. to EN 62061 relating to ATEX0.000009 1/hSafety Integrity Level (SIL) acc. to IEC 61508 relating to ATEXSIL1T1 value for proof test interval or service life acc. to3 y		finger-safe, for vertical contact from the front with cover
<ul> <li>ATEX</li> <li>IECEx</li> <li>Yes</li> <li>Yes</li> <li>hardware fault tolerance acc. to IEC 61508 relating to ATEX</li> <li>PFDavg with low demand rate acc. to IEC 61508</li> <li>PFDavg with high demand rate acc. to EN 62061 relating to ATEX</li> <li>PFHD with high demand rate acc. to EN 62061 relating to ATEX</li> <li>Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX</li> <li>Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX</li> <li>SIL1</li> <li>SIL1</li> </ul>		
• IECExYeshardware fault tolerance acc. to IEC 61508 relating to ATEX0PFDavg with low demand rate acc. to IEC 61508 relating to ATEX0.09PFHD with high demand rate acc. to EN 62061 relating to ATEX0.000009 1/hSafety Integrity Level (SIL) acc. to IEC 61508 relating to ATEXSIL1T1 value for proof test interval or service life acc. to3 y	-	
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       3 y		
ATEX       PFDavg with low demand rate acc. to IEC 61508       0.09         relating to ATEX       0.000009 1/h         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       3 y		
relating to ATEX       0.000009 1/h         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       3 y	ATEX	
to ATEX     Safety Integrity Level (SIL) acc. to IEC 61508 relating to ATEX       T1 value for proof test interval or service life acc. to     3 y	relating to ATEX	
to ATEX T1 value for proof test interval or service life acc. to 3 y	to ATEX	
	to ATEX	
	T1 value for proof test interval or service life acc. to IEC 61508 relating to ATEX	3 у



**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=3RW5055-6TB15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5055-6TB15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5055-6TB15

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5055-6TB15&lang=en

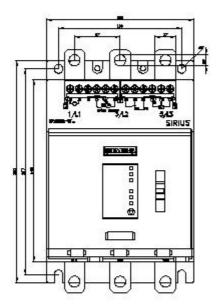
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5055-6TB15/char

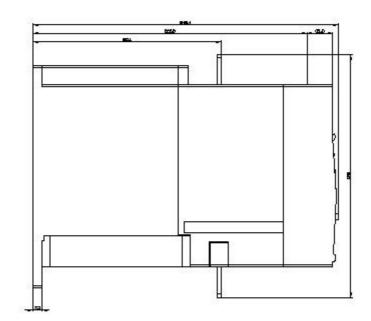
Characteristic: Installation altitude

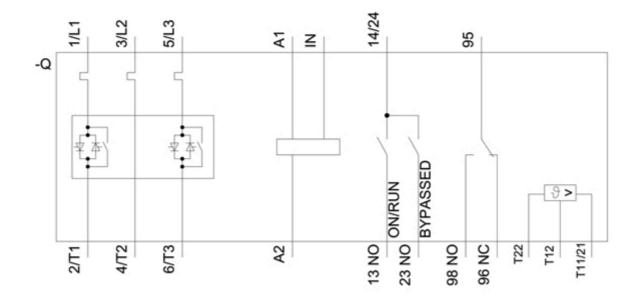
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5055-6TB15&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







last modified:

12/15/2020 🖸