## SIEMENS

## Data sheet

## 3RW5056-2TB04



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

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>	<u>3RW5980-0HS01</u>		
<ul> <li>of high feature HMI module usable</li> </ul>	<u>3RW5980-0HF00</u>		
<ul> <li>of communication module PROFINET standard usable</li> </ul>	<u>3RW5980-0CS00</u>		
<ul> <li>of communication module PROFIBUS usable</li> </ul>	<u>3RW5980-0CP00</u>		
<ul> <li>of communication module Modbus TCP usable</li> </ul>	<u>3RW5980-0CT00</u>		
<ul> <li>of communication module Modbus RTU usable</li> </ul>	<u>3RW5980-0CR00</u>		
<ul> <li>of communication module Ethernet/IP</li> </ul>	<u>3RW5980-0CE00</u>		
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	<u>3VA2220-7MN32-0AA0; Type of assignment 1, lq = 20 kA</u>		
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	<u>3VA2220-7MN32-0AA0; Type of assignment 1, lq = 20 kA</u>		
<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>	<u>3NE1 230-0; Type of coordination 2, Iq = 65 kA</u>		
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE3 335; Type of coordination 2, Iq = 65 kA</u>		
<ul> <li>of line contactor usable up to 480 V</li> </ul>	<u>3RT1056</u>		
<ul> <li>of line contactor usable up to 690 V</li> </ul>	<u>3RT1064</u>		
General technical data			
starting voltage [%]	30 100 %		
stopping voltage [%]	50 %; non-adjustable		
start-up ramp time of soft starter	0 20 s		
ramp-down time of soft starter	0 20 s		
current limiting value [%] adjustable	130 700 %		
accuracy class according to IEC 61557-12	5 %		
certificate of suitability			
CE marking	Yes		
UL approval	Yes		
CSA approval	Yes		
product component			
HMI-High Feature	No		
<ul> <li>is supported HMI-Standard</li> </ul>	Yes		
<ul> <li>is supported HMI-High Feature</li> </ul>	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		

etc.         100 ms           • for contral cacal         100 ms           • for contral cacal         100 ms           instation voltage rade value         800 V           inputse voltage rade value         61 V           service factor         1           surge voltage resistance rated value         61 V           maximum permissible voltage of rade isolation         60 V           • between main and axiliary circuit         71 ms with potential contact litting           • ramp-up (soft stating)         15g / 11 ms. from 12g / 11 ms with potential contact litting           • ramp-up (soft stating)         Yes           • stating (stating)         Yes           • ramp-up (soft stating)         Yes           • subtation of thermistor motor protection         Yes           • undor avertiad protecti	buffering time in the event of power failure	-			
• errontro circuit00 msinsulation voltage rated value000 vdegree of polation3, acr. to IEC 60047-4-2imputes voltage rated value6 kVblocking voltage rated value140 vservice factor1surge voltage rated value6 kVmaximup permissible voltage for safe location6 kVbetween main and auxilary circuit6 kVbetween main and auxilary circuit600 vshock resistance15 mto for 12 g/ 11 ms with potential contact liftingvibrator resistance15 mto for 12 g/ 11 ms with potential contact liftingvibrator resistance9 second for 12 g/ 11 ms with potential contact liftingvibrator resistance9 second for 12 g/ 11 ms with potential contact liftingvibrator resistance9 second for 12 g/ 11 ms with potential contact liftingvibrator resistance9 second for 12 g/ 11 ms with potential contact liftingvibrator resistance9 second for 12 g/ 11 ms with potential contact liftingvibrator resistance9 second for 12 g/ 11 ms with potential contact liftingvibrator resistance9 second for 12 g/ 11 ms with potential contact liftingvibrator resistance15 second for 12 g/ 11 ms with potential contact liftingvibrator resistanceYes Second for 12 g/ 11 ms with potential contact liftingvibrator resistanceYes Second for 12 g/ 12 g/ 12 g/ 11 ms with potential contact liftingvibrator resistanceYes Second for 12 g/ 1	-	100 ms			
insulation value         600 V           degree of pollution         3, acc. 16 C6 0097.4-2           impuise value and value         6 N/           blocking value of the thyristor maximum         1400 V           surge value or seistance and value         6 N/           maximum permissible values of seast fie solation         6 N/           wither the set field of the third of the the third of the third o					
degree of pollution         3, arc. to IEC 60947-4-2           Impulse voltage of the thyristor maximum         1 40 V           service factor         1           service main and auxiliary circuit         600 V           shoke resistance         15g / 11 ms, from 12g / 11 ms with potential contact lifting           yibration resistance         15g / 11 ms, from 12g / 11 ms with potential contact lifting           yibration resistance         900 V           end of the display         Yes           end of the display         Yes           end of the display         Yes           end of thermistor motor protection         Yes           end of thermistor motor protection         Yes           end of thermistor motor protection         Yes           exclustor were ad protection         Yes           end of thermistor motor protection         Yes           en					
impute voltage reted value         6 kV           bocking voltage of the thyrktor maximum         1 400 V           service factor         6 kV           service factor         6 kV           e between main and auxilary circuit         600 V           shock resistance rated value         600 V           vibration resistance         15 (1 ms. from 12 g / 11 ms with potential contact lifting           vibration resistance         15 (1 ms. from 12 g / 11 ms with potential contact lifting           vibration resistance         15 (1 ms. from 12 g / 11 ms with potential contact lifting           vibration resistance         15 (1 ms. from 12 g / 11 ms with potential contact lifting           vibration resistance         16 (2 0 0 0 - 2 0					
blocking voltage of the thyristor maximum1400 Vservice factor1400 Vservice factor6 kVmaximum permissible voltage for safe boltion600 Vsetween main and auxiliar circuit600 Vshock resistance15g / 11 ms. from 12g / 11 ms. with potential contact liftingvibration resistance15g / 11 ms. from 12g / 11 ms. with potential contact liftingvibration resistance15g / 12 ms. from 12g / 11 ms. with potential contact liftingvibration resistance15g / 12 ms. from 12g / 11 ms. with potential contact liftingvibration resistance15g / 12 ms. from 12g / 11 ms. with potential contact liftingvibration resistance15g / 12 ms. from 12g / 11 ms. with potential contact liftingvibration resistance15g / 12 ms. from 12g / 11 ms. with potential contact liftingvibration resistance15g / 12 ms. from 12g / 11 ms. with potential contact liftingvibration resistance15g / 12 ms. from 12g / 11 ms. with potential contact liftingvibration resistanceYes• amp-down (soft stop)Yes• andro vertical protectionYes• autor vertical protectionYes• autor or protection rotor protectionYes• autor vertical protectionYes• autor vertica					
service factor         1           surge voltage resistance rated value         6 kV           warkman permissible voltage for safe isolation         600 V           witewan main and avuilary circuit         600 V           stock resistance         15 mm to 8 Hz 2 gto 500 Hz           vitration resistance         15 mm to 8 Hz 2 gto 500 Hz           vitration resistance         0023/2019           prefores code according to IEC 60047-42         AC-S50a           substance Prohibitance (Date)         09/23/2019           ordination (soft stop)         Yes           • amp-up (soft stating)         Yes           • ang-down (soft stop)         Yes           • adjustable aurent limitation         Yes           • adjustable parameterizable         No <td></td> <td></td>					
surge voltage resistance rated value         6 kV           maximum permissible voltage for safe isolation					
maximum permissible voltage for safe isolation         600 V           • between main and auxiliary circuit         15 g/ 11 ms, from 12 g / 11 ms with potential contact lifting           • botx resistance         15 g/ 11 ms, from 12 g / 11 ms with potential contact lifting           • uibration resistance         000 V           • uibration resistance         15 mm to 8 Hz; 2g to 500 Hz           • uibration resistance         0           • uibration resistance         Ves           • adjustable current limitation         Yes           • uibration of thermistor motor protection         Yes; Full motor protection (thermistor motor protection motor overload protection)           • uibration of thermistor motor protection         Yes; Full motor protection introl reprotection           • uibration function         Yes           • uibration resistance parameterizable         Yes           • uibration resister parameterizable         Yes; Ionly in conjunction with special accessories           • uibration resi					
• eleveen main and auxilizy circuit         600 V           shock resistance         15 g / 11 ms, from 12 / 11 m swith potential contact lifting           vibration resistance         15 mm to 6 Hz; 2g to 500 Hz           utilization category according to IEC 60497-4-2         AC-S3a           order cancerding to IEC 60497         AC-S3a           guarding according to IEC 60497         AC-S3a           order function         Ves           • amp-dox (soft stor)         Yes           • adjustable current limitation         Yes           • adjustable current limitation         Yes           • adjustable current limitation         Yes           • andro overload protection         Yes           • andro overload protection         Yes           • andro overload protection         Yes, Type A PIC or Kilxon / Thermodick           • adjustable current limitation         Yes           • adjustable current limitation         Yes           • adjustable current limitation         Yes, Type A PIC or Kilxon / Thermodick           • adjustable current limitation         Yes           • adjustable current limitation					
shock resistance         15 g / 11 ms, from 12 g / 11 ms with potential contact lifting           vibration resistance         16 mm to BHz; 2g to 500 Hz           uitzlation category according to IEC 61345-2         Q           Substance Prohibitance (Date)         06/23/2019           product function         Yes           • amp-up (soft starting)         Yes           • adjustable current limitation         Yes           • adjustable condition whot protection         Yes           • adjustable condition         Yes           • adjustable cond		600 V			
vibration resistance         15 mm to 6 Hz; 2g to 500 Hz           utilization category according to IEC 609474-2         AC-53a           Gaustance Prohibitance (Date)         00/23/2019           product function         •           • ramp-up (soft starting)         Yes           • digitable current limitation         Yes           • digitable current limitation         Yes           • digitable current limitation         Yes           • intros device protection         Yes           • motor overload protection         Yes           • motor overload protection         Yes           • adulation of thermistor motor protection         Yes           • availuation of thermistor motor protection         Yes           • arron valuation of thermist					
utilization category according to IEC 8097-4-2         AC-53a           reference code according to IEC 81346-2         Q           Substance Prchibitance (Data)         09/23/2019           product function         Yes           • ramp-down (soft string)         Yes           • adjustable current limitation         Yes           • infinitios (divice protection         Yes: Full motor protection (thermistor motor protection emotor overload protection)           • evaluation of thermistor motor protection         Yes: Type APIC or Klixon / Thermoclick           • emotor overload protection         Yes: Type APIC or Klixon / Thermoclick           • etailon RESET         Yes: Only in conjunction with special accessories           • error logbook         Yes: Only in conjunction with special accessories           • error logbook         Yes: Only in conjunction with special accessories           • vis software parameterizable         No           • vis asoftware parameterizable         Yes           • vis asoftware parameterizable         No           • orated value         171 A           • at d0 °C rated value         171 A           • at d0 °C					
reference code according to IEC 81346-2         Q           Subtance Prohibitions (bats)         09/23/2019           evaluation and pup (soft starting)         Yes           • iamp-dup (soft starting)         Yes           • adjustable current limitation         Yes           • adjustable current limitation         Yes           • intrinsic device protection         Yes           • intrinsic device protection         Yes           • motor overload protection         Yes           • evaluation of thermistor motor protection         Yes           • evaluation function         Yes           • evaloatonetime         No					
Substance Prohibitance (Date)         09/23/2019           product function         Yes           iamp-down (soft stop)         Yes           iamp-down (soft stop) <th< td=""><td></td><td></td></th<>					
product function       iramp-up (soft starting)       Yes         iramp-up (soft starting)       Yes         iramp-up (soft starting)       Yes         isoft Torque       Yes         adjustable current limitation       Yes         initrinsic device protection       Yes         initrinsic device protection       Yes         indict device       Yes         operating mesured value display       Yes         ier or ligbook       Yes         via software parameterizable       No         via software parameterizable       No         iorque control       No         iorque control       No					
• ramp-up (soft starting)     Yes       • ramp-down (soft stop)     Yes       • Soft Torque     Yes       • adjustable current limitation     Yes       • upm pramp down     Yes       • initrinsic device protection     Yes       • motor overload protection     Yes; Type A PTC or Klixon / Thermoclick       • undor RESET     Yes       • adjustable current limitation     Yes; Type A PTC or Klixon / Thermoclick       • auto-RESET     Yes       • monual RESET     Yes       • monual RESET     Yes; Only in conjunction with special accessories       • error logbook     Yes; Only in conjunction with special accessories       • error logbook     Yes; Only in conjunction with special accessories       • error logbook     Yes; Only in conjunction with special accessories       • via software parameterizable     No       • voltage ramp     Yes       • torque control     No       • analog output     Yes       Operating routput     Yes       orque state     151 A       • at 60 °C rated value     151 A       • at 60 °C rated value     153 A       • at 60 °C rated value     154 M       • at 60 °C rated value     10 %       • at 60 °C rated value     50 HZ       • at 60 °C rated value     10 %					
• ramp-down (soft stop)Yes• Soft TorqueYes• adjustable current limitationYes• pump ramp downYes• initinisic device protectionYes• initinisic device protectionYes, Full motor protection (thermistor motor protection and electronic motor overload protection)• evaluation of thermistor motor protectionYes, Type A PTC or Kilxon / Thermoclick• auto-RESETYes, Day and protection)• evaluation fibermistor motor protectionYes; Day and protection)• evaluation of thermistor motor protectionYes; Day and protection)• evaluation of thermistor motor protectionYes; Day in conjunction with special accessories• andor RESETYes; Only in conjunction with special accessories• operating measured value displayYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes• voltage rampYes• orque controlNo• analog outputNo• analog outputNo• analog output151 A• at 00 °C rated value151 A• at 00 °C rated value10%• at 00 °C rated value10%• at 00 °C rated value90 KW• at 00 °C rated value10 %• at 00 °C rated value10 %• at 00 °C rated value10 %• at 00 °C rated value60 Hz• at 00	•	Yes			
<ul> <li>Soft Torque</li> <li>Yes</li> <li>adjustable current limitation</li> <li>Yes adjustable current</li> <li>Yes adjustable current</li> <li>Yes adjustable current</li> <li>Yes adjustable current</li> <li>Yes adjustable</li> <li>Yes adjustable current</li> <li>Yes adjustable</li> <li>Yes adjustable co</li></ul>					
• adjustable current limitationYes• pump ramp downYes• initritistic device protectionYes• motor overload protectionYes; Full motor protection (thermistor motor protection and electronic motor overload protection)• evaluation of thermistor motor protectionYes; Tyel motor protection (thermistor motor protection and electronic motor overload protection)• evaluation of thermistor motor protectionYes; Tyel A PTC or Klixon / Thermoclick• auto-RESETYes• manual RESETYes• remote resetYes; Dy luring off the control supply voltage• communication functionYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes;• via software configurableYes• torque controlNo• analog outputNo• operating outputNo• avalue divalue171 A• at 50 °C rated value153 A• at 60 °C rated value153 A• at 60 °C rated value10 %• at 20 °C rated value10 %• at 20 °C rated value90 kW• operating frequency 1 rated value50 Hz• at 20 V at 40 °C rated value60 Hz• at 20 V at 40 °C rated value90 kW• at 20 V at 40 °C rated value10 %• at 20 V at 40 °C rated value90 kW• at 20 V at 40 °C rated value10 %• at 20 V at 40 °C rated value90 kW• at rotary coding switch on switch position 181 A• at rotary co					
• pump ramp downYes• intrinsic device protectionYes• motor overload protection (thermistor motor protection and electronic motor overload protection)• evaluation of thermistor motor protectionYes; Full motor protection (thermistor motor protection and electronic motor overload protection)• evaluation of thermistor motor protectionYes; Type A PTC or Klixon / Thermoclick• auto-RESETYes• manual RESETYes• remote resetYes; Dy turning off the control supply voltage• communication functionYes; Only in conjunction with special accessories• error logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software parameterizableNo• voltage rampYes• torque controlNo• analog outputNo• analog outputNo• analog outputNo• at 60 °C rated value153 A• at 60 °C rated value10 %• relative nogative tolerance of the operating voltage15 %• at 230 V at 40 °C rated value50 Hz• at 230 V at 40 °C rated value50 Hz• at 230 V at 40 °C rated value50 Hz• at 230 V at 40 °C rated value60 Hz• at rolary coding switch on switch position 181 A• at rolary coding switch on switch position 287 A• at rolary coding switch on switch position 383 A	•				
Initial device protectionYesendor overload protectionYes; Full motor protection (hermistor motor protection and electronic motor overload protection)evaluation of thermistor motor protectionYes; Type A PTC or Klixon / Thermoclick• auto-RESETYes• manual RESETYes• remote resetYes; By turning off the control supply voltage• communication functionYes; Only in conjunction with special accessories• operating measured value displayYes; Only in conjunction with special accessories• via software parameterizableNo• via software parameterizableNo• via software configurableYes• voltage rampYes• voltage rampYes• orque controlNo• analog outputNo• analog outputNo• analog output171 A• at 40 °C rated value153 A• at 60 °C rated value200 480 V• relative negative tolerance of the operating voltage90 kW• operating voltage90 kW• at 230 V at 40 °C rated value90 kW• at 230 V at 40 °C rated value90 kW• operating frequency 1 rated value90 kW• operating frequency 2 rated value90 kW• operating power for 3-phase motors90 kW• operating power for 3-phase motors90 kW• operating power for 3-phase motors	-	Yes			
• motor overload protectionYes; Full motor protection (thermistor motor protection) motor overload protection)• evaluation of thermistor motor protectionYes; Type A PTC or Klixon / Thermoclick• auto-RESETYes• manual RESETYes• remote resetYes; By turning off the control supply voltage• communication functionYes; Only in conjunction with special accessories• error logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes; nonnection with the PROFINET Standard communication module• voltage rampYes; nonnection with the PROFINET Standard communication module• voltage rampYes• torque controlNo• analog outputNoPower Electronics200 480 V• reletive nogative tolerance of the operating voltage153 A• at 60 °C rated value154 A• at 200 V at 40 °C rated value10 %• at 200 V at 40 °C rated value50 Hz• at 200 V at 40 °C rated value50 Hz• at 200 V at 40 °C rated value50 Hz• at 200 V at 40 °C rated value50 Hz• at 200 V at 40 °C rated value50 Hz• at adou Y at 40 °C rated value50 Hz• at adou Y at 40 °C rated value10 %• at 200 V at 40 °C rated value50 Hz• at 200 V at 40 °C rated value50 Hz• at 200 V at 40 °C rated value50 Hz• at 200 V at 40 °C rated value50 Hz• at adou Y ad 0 °C rated value50					
• auto-RESETYes• manual RESETYes• remote resetYes; By turning off the control supply voltage• communication functionYes• operating measured value displayYes; Only in conjunction with special accessories• error logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes; in connection with the PROFINET Standard communication module• voltage rampYes; in connection with the PROFINET Standard communication module• voltage rampYes; in connection with the PROFINET Standard communication module• analog outputNoPower ElectronicsYes• at 40 °C rated value171 A• at 60 °C rated value153 A• at 60 °C rated value200 480 V• at 60 °C rated value15%• at 230 V at 40 °C rated value90 KW• at 230 V at 40 °C rated value90 KW• at 230 V at 40 °C rated value90 KW• at 230 V at 40 °C rated value90 KW• at 230 V at 40 °C rated value90 KW• at 230 V at 40 °C rated value90 KW• at 230 V at 40 °C rated value90 KW• at 230 V at 40 °C rated value90 Hz• at 230 V at 40 °C rated value90 Hz• at 700 V at 40 °C rated value90 Hz• at 700 V at 40 °C rated value90 Hz• at 700 V at 40 °C rated value90 Hz• at 700 V at 40 °C rated value90 Hz• at 700 V at 40 °C rated value90 Hz•	<ul> <li>motor overload protection</li> </ul>				
• manual RESETYes• remote resetYes; By turning off the control supply voltage• communication functionYes;• operating measured value displayYes; Only in conjunction with special accessories• operating measured value displayYes; Only in conjunction with special accessories• via software parameterizableNo• via software parameterizableNo• via software configurableYes; in connection with the PROFINET Standard communication module• voltage rampYes; in connection with the PROFINET Standard communication module• voltage rampYes• torque controlNo• analog outputNoPower Electronics171 A• at 40 °C rated value153 A• at 60 °C rated value163 A• at 60 °C rated value165 %• rated value200 480 V• rated value10 %• at 200 V at 40 °C rated value90 kW• at 400 V at 40 °C rated value60 Hz• at 400 V at 40 °C rated value90 kW• at 400 V at 40 °C rated value60 Hz• at 400 V at 40 °C rated value60 Hz• at 400 V at 40 °C rated value50 Hz• at 400 V at 40 °C rated value60 Hz• at 700 V crated value60 Hz• at 700 voicing switch on switch position 181 A </td <td><ul> <li>evaluation of thermistor motor protection</li> </ul></td> <td>Yes; Type A PTC or Klixon / Thermoclick</td>	<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick			
• remote reselYes; By turning off the control supply voltage• communication functionYes• operating measured value displayYes; Only in conjunction with special accessories• error logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes• voltage rampYes; on in connection with the PROFINET Standard communication module• voltage rampYes• torque controlNo• analog outputNoPower ElectronicsYes• analog outputNo• at 60 °C rated value153 A• at 60 °C rated value153 A• at 60 °C rated value200 480 V• rated value200 480 V• rated value200 480 V• rated value10 %• at 230 V at 40 °C rated value45 kW• at 230 V at 40 °C rated value50 Hz• at 230 V at 40 °C rated value50 Hz• at 230 V at 40 °C rated value60 Hz• at 230 V at 40 °C rated value10 %• at 230 V at 40 °C rated value10 %• at 230 V at 40 °C rated value10 %• at 230 V at 40 °C rated value10 %• at at 00 V at 40 °C rated value10 %• at at 00 V at 40 °C rated value10 %• at at 00 V at 40 °C rated value10 %• at at 00 V at 40 °C rated value10 %• at at 00 V at 40 °C rated value10 %• at at 00 V at 0°C rated value10 %• at at 00 V at 0°C rated value<	auto-RESET	Yes			
• communication functionYes• operating measured value displayYes; Only in conjunction with special accessories• error logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes;• PROFlenergyYes; in connection with the PROFINET Standard communication module• voltage rampYes• torque controlNo• analog outputNoPower Electronicsoperational current171 A• at 40 °C rated value171 A• at 60 °C rated value153 A• rated value200 480 Vrelative negative tolerance of the operating voltage15 %• at 400 °C rated value10 %operating frequency 1 rated value50 Hz• at 400 °C rated value60 Hz• at 400 °C rated value10 %operating frequency 1 rated value50 HzOperating frequency 1 rated value60 Hz• at rotary coding switch on switch position 181 A• at rotary coding switch on switch position 181 A• at rotary coding switch on switch position 393 A	manual RESET	Yes			
• operating measured value displayYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes;• PROFlenergyYes; in connection with the PROFINET Standard communication module• voltage rampYes; in connection with the PROFINET Standard communication module• voltage rampYes• torque controlNo• analog outputNoPower Electronics171 A• at 40 °C rated value171 A• at 60 °C rated value171 A• at 60 °C rated value153 A• at 60 °C rated value161 °C• rated value200 480 V• rated value15 %• at 20 V at 40 °C rated value0%• at 20 V at 40 °C rated value0%• at 40 °C rated value50 Hz• at 40 °C rated value50 Hz• at 20 V at 40 °C rated value60 Hz• at 400 V at 40 °C rated value50 Hz• at 400 V at 40 °C rated value60 Hz• at 700 °C rated value10 %• at 700 °C rated value60 Hz• at rotary coding switch on switch position 181 A• at rotary coding switch on switch position 287 A• at rotary coding switch on switch position 393 A	remote reset	Yes; By turning off the control supply voltage			
• error logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes• PROFlenergyYes; in connection with the PROFINET Standard communication module• voltage rampYes• torque controlNo• analog outputNoPower Electronics171 A• at 40 °C rated value1771 A• at 60 °C rated value153 A• at 60 °C rated value200 480 V• rated value200 480 V• rated value10 %• at 230 V at 40 °C rated value90 kW• at 40 °C rated value00 k• rated value00 k• rated value00 k• at 230 V at 40 °C rated value90 kW• at 40 °C rated value50 Hz• at 40 °C rated value50 Hz• at 40 °C rated value50 Hz• at 230 V at 40 °C rated value50 Hz• at 400 V at 40 °C rated value50 Hz• at 400 V at 40 °C rated value50 Hz• at rotary coding switch on switch position 181 A• at rotary coding switch on switch position 181 A• at rotary coding switch on switch position 393 A	<ul> <li>communication function</li> </ul>	Yes			
• via software parameterizableNo• via software configurableYes• PROFlenergyYes in connection with the PROFINET Standard communication module• voltage rampYes• torque controlNo• analog outputNoPower ElectronicsNo• arata 40 °C rated value171 A• at 40 °C rated value153 A• at 60 °C rated value141 A• arate value200 480 V• relative negative tolerance of the operating voltage155 %• at 20 V at 40 °C rated value10 %• at 20 V at 40 °C rated value50 Hz• at 40 °C rated value00 w• at 40 °C rated value10 %• at 40 °C rated value00 w• at 40 °C rated value10 %• at 20 V at 40 °C rated value50 Hz• at 20 V at 40 °C rated value50 Hz• at 20 V at 40 °C rated value50 Hz• at 20 V at 40 °C rated value50 Hz• at 20 V at 40 °C rated value50 Hz• at 20 V at 40 °C rated value50 Hz• at 20 V at 40 °C rated value50 Hz• at 70 °C rated value10 %• at rotary coding switch on switch position 181 A• at rotary coding switch on switch position 287 A• at rotary coding switch on switch position 393 A	<ul> <li>operating measured value display</li> </ul>	Yes; Only in conjunction with special accessories			
• via software configurableYes• PROFlenergyYes; in connection with the PROFINET Standard communication module• voltage rampYes• torque controlNo• analog outputNoPower ElectronicsYes• aratod value171 A• at 40 °C rated value153 A• at 60 °C rated value153 A• at 60 °C rated value153 A• at 60 °C rated value150 °C• at 40 °C rated value150 °C• at 60 °C rated value150 °C• at 230 V at 40 °C rated value50 HZ• at 230 V at 40 °C rated value50 HZ• at 400 V at 40 °C rated value50 HZ• at 400 V at 40 °C rated value60 HZ• at 600 V rated value60 HZ• at 600 V rated value60 HZ• at 704 rotance of the operating frequency10 %• at 704 rotance of the operating frequency10 %• at 704 rotance of the operating frequency10 %• at rotany coding switch on switch position 181 A• at rotany coding switch on switch position 287 A• at rotany coding switch on switch position 393 A	error logbook	Yes; Only in conjunction with special accessories			
• PROFlenergyYes; in connection with the PROFINET Standard communication module• voltage rampYes• voltage rampYes• torque controlNo• analog outputNoPower Electronics171 A• at 40 °C rated value171 A• at 40 °C rated value153 A• at 60 °C rated value141 A• at 60 °C rated value200 480 V• rated value200 480 V• relative negative tolerance of the operating voltage • at 400 °C rated value15 %• at 400 °C rated value00 %• at 400 °C rated value00 %• at 400 °C rated value50 Hz• at 400 °C rated value60 Hz• at 400 °C rated value10 %• at 400 °C rated value10 %• at 700 °C rated value50 Hz• at 700 °C rated value10 %• at 700 °C rated value10 %• at rotary coding switch on switch position 181 A• at rotary coding switch on switch position 287 A• at rotary coding switch on switch position 393 A	<ul> <li>via software parameterizable</li> </ul>	No			
module• voltage rampModule• torque controlNo• analog outputNoPower ElectronicsImage: Second Sec	<ul> <li>via software configurable</li> </ul>	Yes			
• torque controlNo• analog outputNoPower Electronicsoperational current171 A• at 40 °C rated value171 A• at 50 °C rated value153 A• at 60 °C rated value141 Aoperating voltage200 480 V• rated value00 480 Vrelative negative tolerance of the operating voltage10 %operating power for 3-phase motors00 kW• at 230 V at 40 °C rated value90 kW• at 230 V at 40 °C rated value50 HzOperating frequency 1 rated value50 HzOperating requency 1 rated value10 %relative negative tolerance of the operating frequency10 %operating frequency 2 rated value50 Hzoperating frequency 1 rated value50 Hzoperating requency 2 rated value10 %adjustable motor current10 %• at rotary coding switch no switch position 181 A• at rotary coding switch no switch position 287 A• at rotary coding switch no switch position 393 A		module			
• analog outputNoPower Electronics• perational current171 A• at 40 °C rated value171 A• at 50 °C rated value153 A• at 60 °C rated value141 A• operating voltage200 480 V• rated value200 480 V• relative negative tolerance of the operating voltage-15 %• relative negative tolerance of the operating voltage10 %• operating power for 3-phase motors0 %• at 230 V at 40 °C rated value45 kW• at 230 V at 40 °C rated value90 kW• operating frequency 1 rated value50 Hz• perative negative tolerance of the operating frequency10 %• at rotary coding switch on switch position 181 A• at rotary coding switch on switch position 287 A• at rotary coding switch on switch position 393 A					
Power Electronics         operational current         • at 40 °C rated value         • at 50 °C rated value         • at 60 °C rated value         • at 60 °C rated value         • at 60 °C rated value         • rated value         200 480 V         relative negative tolerance of the operating voltage         10 %         operating power for 3-phase motors         • at 230 V at 40 °C rated value         • at 230 V at 40 °C rated value         90 kW         Operating frequency 1 rated value         90 kW         Operating frequency 1 rated value         90 kW         Operating frequency 1 rated value         50 Hz         Operating frequency 1 rated value         60 Hz         relative positive tolerance of the operating frequency         -10 %         relative positive tolerance of the operating frequency         -10 %         adjustable motor current         • at rotary coding switch on switch position 1         81 A         • at rotary coding switch on switch position 2	•				
operational current171 A• at 40 °C rated value171 A• at 50 °C rated value153 A• at 60 °C rated value141 Aoperating voltage141 A• rated value200 480 Vrelative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage10 %operating power for 3-phase motors10 %• at 230 V at 40 °C rated value45 kW• at 400 V at 40 °C rated value90 kWOperating frequency 1 rated value50 HzOperating frequency 2 rated value60 Hzrelative negative tolerance of the operating frequency10 %adjustable motor current-10 %• at rotary coding switch on switch position 181 A• at rotary coding switch on switch position 287 A• at rotary coding switch on switch position 393 A	5	No			
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• at 50 °C rated value153 A• at 60 °C rated value141 Aoperating voltage200 480 V• rated value200 480 Vrelative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage10 %operating power for 3-phase motors	•	171 Δ			
• at 60 °C rated value141 Aoperating voltage200 480 V• rated value200 480 Vrelative negative tolerance of the operating voltage-15 %operating power for 3-phase motors-0%• at 230 V at 40 °C rated value45 kW• at 400 V at 40 °C rated value90 kWOperating frequency 1 rated value60 Hzrelative negative tolerance of the operating frequency-10 %relative negative tolerance of the operating frequency-10 %operating frequency 2 rated value60 Hzrelative negative tolerance of the operating frequency-10 %adjustable motor current-10 %• at rotary coding switch on switch position 181 A• at rotary coding switch on switch position 287 A• at rotary coding switch on switch position 393 A					
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• rated value200 480 Vrelative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage10 %operating power for 3-phase motors-• at 230 V at 40 °C rated value45 kW• at 400 V at 40 °C rated value90 kWOperating frequency 1 rated value50 HzOperating frequency 2 rated value60 Hzrelative negative tolerance of the operating frequency-10 %relative positive tolerance of the operating frequency10 %adjustable motor current81 A• at rotary coding switch on switch position 287 A• at rotary coding switch on switch position 393 A					
relative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage10 %operating power for 3-phase motors10 %• at 230 V at 40 °C rated value45 kW• at 400 V at 40 °C rated value90 kWOperating frequency 1 rated value50 HzOperating frequency 2 rated value60 Hzrelative negative tolerance of the operating frequency-10 %relative positive tolerance of the operating frequency10 %adjustable motor current10 %• at rotary coding switch on switch position 181 A• at rotary coding switch on switch position 287 A• at rotary coding switch on switch position 393 A		200 480 \/			
relative positive tolerance of the operating voltage10 %operating power for 3-phase motors-• at 230 V at 40 °C rated value45 kW• at 400 V at 40 °C rated value90 kWOperating frequency 1 rated value50 HzOperating frequency 2 rated value60 Hzrelative negative tolerance of the operating frequency-10 %relative positive tolerance of the operating frequency10 %adjustable motor current81 A• at rotary coding switch on switch position 181 A• at rotary coding switch on switch position 287 A• at rotary coding switch on switch position 393 A					
operating power for 3-phase motors• at 230 V at 40 °C rated value45 kW• at 400 V at 40 °C rated value90 kWOperating frequency 1 rated value50 HzOperating frequency 2 rated value60 Hzrelative negative tolerance of the operating frequency-10 %relative positive tolerance of the operating frequency10 %adjustable motor current81 A• at rotary coding switch on switch position 181 A• at rotary coding switch on switch position 287 A• at rotary coding switch on switch position 393 A					
• at 230 V at 40 °C rated value45 kW• at 400 V at 40 °C rated value90 kWOperating frequency 1 rated value50 HzOperating frequency 2 rated value60 Hzrelative negative tolerance of the operating frequency-10 %relative positive tolerance of the operating frequency10 %adjustable motor current81 A• at rotary coding switch on switch position 287 A• at rotary coding switch on switch position 393 A					
• at 400 V at 40 °C rated value90 kWOperating frequency 1 rated value50 HzOperating frequency 2 rated value60 Hzrelative negative tolerance of the operating frequency-10 %relative positive tolerance of the operating frequency10 %adjustable motor current81 A• at rotary coding switch on switch position 287 A• at rotary coding switch on switch position 393 A		45 kW			
Operating frequency 1 rated value50 HzOperating frequency 2 rated value60 Hzrelative negative tolerance of the operating frequency-10 %relative positive tolerance of the operating frequency10 %adjustable motor current81 A• at rotary coding switch on switch position 181 A• at rotary coding switch on switch position 287 A• at rotary coding switch on switch position 393 A					
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       10 %         • at rotary coding switch on switch position 1       81 A         • at rotary coding switch on switch position 2       87 A         • at rotary coding switch on switch position 3       93 A					
relative negative tolerance of the operating frequency       -10 %         relative positive tolerance of the operating frequency       10 %         adjustable motor current       10 %         • at rotary coding switch on switch position 1       81 A         • at rotary coding switch on switch position 2       87 A         • at rotary coding switch on switch position 3       93 A		-			
relative positive tolerance of the operating frequency       10 %         adjustable motor current <ul> <li>at rotary coding switch on switch position 1</li> <li>at rotary coding switch on switch position 2</li> <li>at rotary coding switch on switch position 3</li> <li>93 A</li> </ul>		-10 %			
adjustable motor current <ul> <li>at rotary coding switch on switch position 1</li> <li>at rotary coding switch on switch position 2</li> <li>at rotary coding switch on switch position 3</li> </ul> <ul> <li>93 A</li> </ul>		10 %			
<ul> <li>at rotary coding switch on switch position 2</li> <li>at rotary coding switch on switch position 3</li> <li>87 A</li> <li>93 A</li> </ul>	adjustable motor current				
• at rotary coding switch on switch position 3 93 A	<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 coding switch on switch position 4     99 A	<ul> <li>at rotary coding switch on switch position 3</li> </ul>	93 A			
	<ul> <li>at rotary coding switch on switch position 4</li> </ul>	99 A			

<ul> <li>at rotary coding switch on switch position 5</li> </ul>	105 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	111 A
<ul> <li>at rotary coding switch on switch position 7</li> </ul>	117 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	123 A
<ul> <li>at rotary coding switch on switch position 9</li> </ul>	129 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
	147 A
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	
at rotary coding switch on switch position 13	153 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	159 A
<ul> <li>at rotary coding switch on switch position 15</li> </ul>	165 A
<ul> <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	
<ul> <li>at 40 °C after startup</li> </ul>	29 W
<ul> <li>at 50 °C after startup</li> </ul>	23 W
• at 60 °C after startup	20 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	1 751 W
• at 50 °C during startup	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	
<ul> <li>at 50 Hz rated value</li> </ul>	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 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 %
control supply voltage	
at DC rated value	24 V
relative negative tolerance of the control supply voltage at DC	-20 %
relative positive tolerance of the control supply voltage at DC	20 %
control supply current in standby mode rated value	160 mA
holding current in bypass operation rated value	360 mA
locked-rotor current at close of bypass contact	7.6 A
maximum	
inrush current peak at application of control supply voltage maximum	3.3 A
duration of inrush current peak at application of control supply voltage	12.1 ms
design of the overvoltage protection	Varistor
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply
Inputs/ Outputs	
number of digital inputs	1
number of digital outputs	3
not parameterizable	2

digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)			
number of analog outputs				
switching capacity current of the relay outputs	0			
at AC-15 at 250 V rated value	2 A			
at DC-13 at 24 V rated value	3 A 1 A			
	IA			
Installation/ mounting/ dimensions				
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back			
fastening method	screw fixing			
height	198 mm			
width	120 mm			
depth	249 mm			
required spacing with side-by-side mounting				
<ul> <li>forwards</li> </ul>	10 mm			
<ul> <li>backwards</li> </ul>	0 mm			
• upwards	100 mm			
<ul> <li>downwards</li> </ul>	75 mm			
● at the side	5 mm			
weight without packaging	5.2 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 mm <sup>2</sup> maximum	50 m			
• with conductor cross-section = 1.5 mm <sup>2</sup> maximum	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			
• 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 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 • at AWG cables for main current circuit solid	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 stranded</li> <li>for DIN cable lug for main contacts finely stranded</li> </ul>	25 120 mm <sup>2</sup>
type of connectable conductor cross-sections	
for control circuit solid	2x (0.25 1.5 mm²)
<ul> <li>for control circuit finely stranded with core end</li> </ul>	2x (0.25 1.5 mm <sup>2</sup> ) 2x (0.25 1.5 mm <sup>2</sup> )
processing	2. (0.25 1.5 mm)
<ul> <li>at AWG cables for control circuit solid</li> </ul>	2x (24 16)
<ul> <li>at AWG cables for control circuit finely stranded with</li> </ul>	2x (24 16)
core end processing	
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	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	10 14 N·m
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m
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	
<ul> <li>during operation</li> </ul>	-25 +60 °C; Please observe derating at temperatures of 40 °C or
	above
during storage and transport	-40 +80 °C
environmental category	3K6 (no ice formation, only occasional condensation), 3C3 (no salt
<ul> <li>during operation according to IEC 60721</li> </ul>	mist), 3S2 (sand must not get into the devices), 3M6
<ul> <li>during storage according to IEC 60721</li> </ul>	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must
	not get inside the devices), 1M4
<ul> <li>during transport according to IEC 60721</li> </ul>	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
Modbus RTU	Yes
Modbus TCP	Yes
PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
of circuit breaker	
<ul> <li>— usable for Standard Faults at 460/480 V according to UL</li> </ul>	Siemens type: 3VA5225, max. 250 A; Iq = 10 kA
— usable for High Faults at 460/480 V according	Siemens type: 3VA52, max. 250 A; Ig max = 65 kA
to UL	
of the fuse	
— usable for Standard Faults up to 575/600 V	Type: Class RK5 / K5, max. 400 A; lq = 10 kA
according to UL	
<ul> <li>— usable for High Faults up to 575/600 V according to UL</li> </ul>	Type: Class J, max. 350 A; Iq = 100 kA
operating power [hp] for 3-phase motors	
• at 200/208 V at 50 °C rated value	50 hp
• at 220/230 V at 50 °C rated value	50 hp
• at 460/480 V at 50 °C rated value	100 hp
Safety related data	
protection class IP on the front according to IEC	IP00; IP20 with cover
60529	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover
ATEX	
certificate of suitability	
-	

• ATEX			Yes			
• IECEx			Yes			
hardware fault tolerance according to IEC 61508 relating to ATEX		0				
PFDavg with low demand rate according to IEC 61508 relating to ATEX		0.09	0.09			
PFHD with high den relating to ATEX	PFHD with high demand rate according to EN 62061 relating to ATEX			9E-6 1/h		
Safety Integrity Lev relating to ATEX	el (SIL) according to I	EC 61508	SIL1			
	est interval or service 508 relating to ATEX	life	3 у			
Certificates/ approval	•					
General Product A	oproval					For use in hazard- ous locations
	CCC	Confirmatio	<u>on</u>	(UL) II	EAC	ATEX
For use in hazard- ous locations	Declaration of Conformity	Test Certifica	ates	Marine / Shipping		
IECEx	CE EG-Konf.	<u>Type Test Ce</u> ates/Test Re		ABS	Llovd's Kegister uts	PRS
other						
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=3RW5056-2TB04 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5056-2TB04						
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW5056-2TB04						
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5056-2TB04⟨=en Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5056-2TB04/char						
Characteristic: Insta	allation altitude	·		<u>7cmar</u> <u>n&amp;mlfb=3RW5056-2TBC</u>	04&objecttype=14&gri	<u>dview=view1</u>
Simulation Tool for https://support.indust	Soft Starters (STS) ry.siemens.com/cs/ww/	/en/view/1014949	917		-	

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