SIEMENS



3RW5075-2AB05

Data sheet



SIRIUS soft starter 200-600 V 370 A, 24 V AC/DC Spring-loaded terminals Analog output

Figure similar

product brand name	SIRIUS			
product category	Hybrid switching devices			
product designation	Soft starter			
product type designation	3RW50			
manufacturer's article number				
 of standard HMI module usable 	<u>3RW5980-0HS01</u>			
 of high feature HMI module usable 	<u>3RW5980-0HF00</u>			
 of communication module PROFINET standard usable 	<u>3RW5980-0CS00</u>			
 of communication module PROFIBUS usable 	<u>3RW5980-0CP00</u>			
 of communication module Modbus TCP usable 	<u>3RW5980-0CT00</u>			
 of communication module Modbus RTU usable 	<u>3RW5980-0CR00</u>			
 of communication module Ethernet/IP 	<u>3RW5980-0CE00</u>			
 of circuit breaker usable at 400 V 	<u>3VA2580-6HN32-0AA0; Type of assignment 1, lq = 65 kA</u>			
 of circuit breaker usable at 500 V 	<u>3VA2580-6HN32-0AA0: Type of assignment 1. Iq = 65 kA</u>			
 of the gG fuse usable up to 690 V 	2x3NA3365-6; Type of coordination 1, Iq = 65 kA			
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1 334-2; Type of coordination 2, Iq = 65 kA</u>			
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE3 336: Type of coordination 2, Iq = 65 kA</u>			
 of line contactor usable up to 480 V 	<u>3RT1075</u>			
 of line contactor usable up to 690 V 	<u>3RT1075</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			
 is supported HMI-Standard 	Yes			
 is supported HMI-High Feature 	Yes			
product feature integrated bypass contact system	Yes			
number of controlled phases	2			

buffering time in the event of power failure in i for main current circuit 100 ms i for control circuit 000 V degree of polition 3, acc, to IEC 80947-4-2 Impulse voltage rated value 6 kV bocking voltage of the thyristor maximum 1 600 V service factor 1 surge voltage of the thyristor maximum 6 60 V service factor 1 urge voltage of the thyristor maximum 6 60 V service factor 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration resistance 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration resistance 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration resistance 16 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration resistance 16 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration resistance 16 g / 23/2019 product function 9/23/2019 product function 19/23/2019 product function Yes • adjustable current limitation Yes • evel atom for betraints motor protection No • atom value para	trip class			
	trip class	CLASS 10A / 10E (20E, acc. to IEC 60947-4-2		
	•			
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degree of pollution 3, acc, to IEC 60847-4-2 impulse voitage roles and value 6 kV blocking voitage of the thyristor maximum 1600 V service factor 1 urge voitage roles and value 6 kV maximum permissible voltage for safe isolation 6 kV shocking voitage roles and value 6 kV wibration resistance 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration resistance 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration resistance 16 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration resistance 16 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration resistance 16 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration resistance 0 g / 23/2019 product function Yes • adjustable current limitation Yes • adjustable current limitation Yes • undor overload protection No • audor fibramistor motor protection Yes • audor fibramistor motor protection Yes • avand kesEsT Yes • anonual R				
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blocking voltage of the thyristor maximum 1 600 V service factor 1 eurge voltage resistance rated value 6 kV maximum permissible voltage for safe isolation 6 kV shetween main and auxiliary circuit 600 V shock resistance 15 g / 11 ms. from 12 g / 11 ms with potential contact lifting vibration resistance 15 g / 11 ms. from 12 g / 11 ms with potential contact lifting vibration resistance 15 g / 11 ms. from 12 g / 11 ms with potential contact lifting vibration resistance 15 g / 11 ms. from 12 g / 11 ms with potential contact lifting vibration resistance 16 g / 11 ms. from 12 g / 11 ms with potential contact lifting vibration resistance 16 g / 11 ms. from 12 g / 11 ms with potential contact lifting vibration resistance 16 g / 11 ms. from 12 g / 11 ms with potential contact lifting vibration resistance 0 g / 23/2019 product function Yes • adjustable current limitation Yes • adjustable current limitation Yes • undor RESET Yes • manual RESET Yes • erron lopook Yes • operating measured value display				
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surge voltage resistance rated value 6 kV maximum permissible voltage for safe isolation 600 V sheck resistance 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration resistance 15 mm to 6 Hz; 2g to 500 Hz utilization category according to IEC 60947-4-2 AC-53a reference code according to IEC 61942-2 Q Substance Prohibitance (Date) 092/32019 product function ves • ramp-up (soft starting) Yes • adjustable current limitation Yes • adjustable current limitation Yes • intrinsic device protection Yes • motor overload protection Yes • motor overload protection Yes • erron legobok Yes; Dit in conjunction with special accessories • error legobok Yes; in connection with the pROFINET Standard communication module • via software configurable Yes • via software confi				
maximum permissible voltage for safe isolation 600 V • between main and auxilary circuit 600 V shock resistance 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration resistance 15 mm to 6 Hz; 2g to 500 Hz utilization category according to IEC 81346-2 Q Guidation category according to IEC 81346-2 Q Substance Prohibitance (Date) 09/3/3/2019 product function * • ramp-down (soft starting) Yes • soft Torque Yes • adjustable current limitation Yes • pump ramp down Yes • intrinsic device protection Yes • adjustable current limitation Yes • auto-RESET Yes • motor overload protection Yes • auto-RESET Yes • auto-RESET Yes • communication function Yes • auto-RESET Yes • communication function Yes • areal optication Yes • areal optication Yes • areal optication Yes		- · ·		
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vibration resistance 15 mm to 6 Hz; 2g to 500 Hz utilization category according to IEC 60947-4-2 AC-53a reference code according to IEC 81346-2 0 Substance Prohibitance (Date) 09/23/2019 product function ves • ramp-down (soft step) Yes • soft Torque Yes • adjustable current limitation Yes • adjustable current limitation Yes • unitor isot device protection Yes • intrinsic device protection Yes • evaluation of thermistor motor protection No • auto-RESET Yes • remote reset Yes; Dny in conjunction with special accessories • error logbook Yes; Only in conjunction with special accessories • via software parameterizable No • via software parameterizable No • via software parameterizable No • via software configurable Yes • via software configurable Yes • via software configurable Yes • via software parameterizable No • via software configurable				
utilization category according to IEC 60947.4-2 AC-53a reference code according to IEC 61947-2 Q Substance Prohibitance (Date) 09/32/2019 product function Yes • ramp-up (soft starting) Yes • ramp-down (soft stop) Yes • adjustable current limitation Yes • adjustable current limitation Yes • intrinsic device protection Yes • motor overload protection Yes • auto-RESET Yes • auto-RESET Yes • auto-RESET Yes • auto-RESET Yes • communication function Yes • auto-RESET Yes • communication function Yes • auto-RESET Yes • andor genoting unable Yes • auto-RESET Yes • auto-RESET Yes • auto-Record Yes • operating measured value display Yes; Only in conjunction with special accessories • via software parameterizable No • ia software parameterizable				
reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 09/3/3/2019 product function Yes • ramp-down (soft stop) Yes • soft Torque Yes • adjustable current limitation Yes • pump ramp down Yes • adjustable current limitation Yes • unitrinsic device protection Yes • evaluation of thermistor motor protection Yes • auto-RESET Yes • manual RESET Yes • error logbook Yes; Durning off the control supply voltage • communication function Yes; Only in conjunction with special accessories • via software configurable Yes; Only in conjunction with special accessories • via software configurable Yes; nonnection with the PROFINET Standard communication module • via software configurable Yes • via go uput Yes; A 20 mA (default) / 0 10 V (parameterizable with High Feature High Feature High Feature High Value • at 80 °C rated value 370 A • at 80 °C rated value 300 A • at 80 °C rated value 300 A • at 80 °C rated value 10 %				
Substance Prohibitance (Date) 09/23/2019 product function - • ramp-down (soft stop) Yes • Soft Torque Yes • adjustable current limitation Yes • adjustable current limitation Yes • adjustable current limitation Yes • intrinsic device protection Yes • motor overload protection Yes • motor overload protection No • auto-RESET Yes • remote reset Yes; By turning off the control supply voltage • communication function Yes; Only in conjunction with special accessories • via software parameterizable No • via software configurable Yes • via software configurable Yes • operating current Yes • orated value 370 A • at 40 °C rated value 328 A • at 60 °C rated value 320 A • at 60 °C rated value 320 A • at 60 °C rated value 200 600 V • rated value 200 600 V • rated value 200 V				
product function Yes • ramp-ty (soft starting) Yes • adjustable current limitation Yes • adjustable current limitation Yes • pump ramp down Yes • initrinsic device protection Yes • evaluation of thermistor motor protection Yes • evaluation of thermistor motor protection Yes • auto-RESET Yes • manual RESET Yes • operating measured value display Yes; Only in conjunction with special accessories • operating measured value display Yes; Only in conjunction with special accessories • via software parameterizable No • via software porting Yes • ror logbook Yes; in connection with the PROFINET Standard communication module • voltage ramp Yes • torque control No • analog output Yes, 1 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) • voltage ramp Yes • torque control 370 A • at 40 °C rated value 328 A • at 50 °C rated value 320 A • at 60 °C rated value 320 A •				
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• ramp-down (soft stop)Yes• Soft TorqueYes• adjustable current limitationYes• pump ramp downYes• intrinsic device protectionYes, Electronic motor overload protection• evaluation of thermistor motor protectionNo• auto-RESETYes• memual RESETYes, Stlectronic motor overload protection• evaluation of functionYes, Stlectronic motor overload protection• auto-RESETYes• remote resetYes, Stly turning off the control supply voltage• communication functionYes• ereor logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes• via software configurableYes; in connection with the PROFINET Standard communication module• voltage rampYes; u. 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)• at 40 °C rated value300 A• at 40 °C rated value300 A• at 40 °C rated value200 600 V• relative negative tolerance of the operating voltage-15 %• relative positive tolerance of the operating voltage-15 %• relative positive tolerance of the operating voltage-10 %• at 400 °C rated value200 kW• at 400 °C rated value200 kW• at 400 °C rated value200 Ling %• relative positive tolerance of the operating voltage-15 %• relative positive tolerance of the operating voltage-25 kW• at 400 V at 40 °C rated value	•			
Soft Torque Yes adjustable current limitation Yes adjustable current limitation Yes intrinsic device protection Yes evaluation of thermistor motor protection Yes evaluation of thermistor motor protection No auto-RESET Yes remote reset Yes; By turning off the control supply voltage communication function Yes operating measured value display Yes; Only in conjunction with special accessories via software parameterizable No via software configurable Yes voltage ramp Yes; in connection with the PROFINET Standard communication module voltage ramp Yes; A 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) Power Electronics 370 A operating voltage 300 A operating voltage 300 A operating voltage 10 % operating requency of the operating voltage 15 % etation particle value 200 600 V etation Crated value 200 600 V etation voltage rame 10 % operating woltage 10 % <t< td=""><td></td><td></td></t<>				
• adjustable current limitationYes• pump ramp downYes• intrinsic device protectionYes• motor overload protectionYes; Electronic motor overload protection• evaluation of thermistor motor protectionNo• auto-RESETYes• manual RESETYes; Day 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 configurableYes• voltage rampYes; in connection with the PROFINET Standard communication module• voltage rampYes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)• operational current328 A• at 60 °C rated value320 A• at 60 °C rated value320 A• at 60 °C rated value300 A• operating voltage-15 %• rated value200 600 V• rated value110 kW• at 300 V at 40 °C rated value200 kW• at 300 V at 40 °C rated value200 kW• at 300 V at 40 °C rated value200 kW• at 300 V at 40 °C rated value200 kW• at 300 V at 40 °C rated value200 kW• at 300 V at 40 °C rated value200 kW• at 300 V at 40 °C rated value200 kW• at 300 V at 40 °C rated value200 kW• at 400 °C rated value200 kW• at 300 V at 40 °C rated value200 kW• at 300 V at 40 °C				
• pump ramp downYes• intrinsic device protectionYes• motor overload protectionYes• motor overload protectionNo• evaluation of thermistor motor protectionNo• auto-RESETYes• manual RESTYes• remote resetYes• 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 parameterizableNo• via software configurableYes: In connection with the PROFINET Standard communication module• voltage rampYes: A 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)• analog output370 A• at 40 °C rated value328 A• at 60 °C rated value328 A• at 60 °C rated value200 600 V• relative negative tolerance of the operating voltage-15 %• relative negative tolerance of the operating voltage-15 %• at 30 V at 40 °C rated value200 kW• at 30 V at 40 °C rated value200 kW• at 30 V at 40 °C rated value250 kW• at 30 V at 40 °C rated value250 kW• at 30 V at 40 °C rated value250 kW• at 30 V at 40 °C rated value250 kW• at 30 V at 40 °C rated value250 kW• at 30 V at 40 °C rated value250 kW• at 30 V at 40 °C rated value250 kW• at 30 V at 40 °C rated value250				
• intrinsic device protection Yes • notor overload protection Yes; Electronic motor overload protection • evaluation of thermistor motor protection No • auto-RESET Yes • manual RESET Yes; By turning off the control supply voltage • communication function Yes • operaring measured value display Yes; Only in conjunction with special accessories • via software parameterizable No • via software configurable Yes • ROFlenergy Yes; in connection with the PROFINET Standard communication module • voltage ramp Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) Power Electronics 370 A • at 40 °C rated value 300 A • at 40 °C rated value 300 A • at 60 °C rated value 300 A • at 80 °C rated value 10 % • rated value 10 % • at 20 V at 40 °C rated value 200 600 V • at 40 °C rated value 200 600 V • rated value <td< td=""><td>-</td><td colspan="3"></td></td<>	-			
• motor overload protection Yes; Electronic motor overload protection • evaluation of thermistor motor protection No • auto-RESET Yes • manual RESET Yes; By turning off the control supply voltage • communication function Yes; Only in conjunction with special accessories • operating measured value display Yes; Only in conjunction with special accessories • via software parameterizable No • via software configurable Yes; in connection with the PROFINET Standard communication module • voltage ramp Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) • voltage ramp Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) • at 40 °C rated value 370 A • at 60 °C rated value 320 A • at 60 °C rated value 300 A • at 60 °C rated value 300 A • at 60 °C rated value 10 % • rated value 200 600 V • at 60 °C rated value 200 600 V • rated value 200 600 V				
• evaluation of thermistor motor protectionNo• auto-RESETYes• manual RESTYes; By turning off the control supply voltage• communication functionYes; 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 configurableYes• via software configurableYes• PROFIenergyYes; in connection with the PROFINET Standard communication module• voltage rampYes• torque controlNo• analog outputYes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)• et a 40 °C rated value370 A• at 50 °C rated value300 A• operating power for 3-phase motors-15 %• at 230 V at 40 °C rated value200 600 V• at 230 V at 40 °C rated value200 KW• at 50 °C rated value200 KW• at 50 °C rated value200 KW• at 20 V at 40 °C rated value200 KW• at 230 V at 40 °C rated value200 KW• at 50 °C rated value200 KW• at 50 °C rated value50 KW• at 50 °C rated value200 KW• at 50 °C rated value200 KW• at 50 °C rated value50 KZ• at 50 °C rated value50 KZ• at 50 °C rated value60 Hz				
• 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• voltage rampYes• voltage rampYes• torque controlNo• analog outputYes; 1• analog outputYes; 4• at 40 °C rated value370 A• at 60 °C rated value328 A• at 60 °C rated value300 A• operating nogative tolerance of the operating voltage-06 %• rated value200 600 V• rated value10 %• at 40 °C rated value200 600 V• rated value10 %• at 40 °C rated value200 600 V•				
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• remote reset Yes; By turning off the control supply voltage • communication function Yes; Only in conjunction with special accessories • operating measured value display Yes; Only in conjunction with special accessories • via software parameterizable No • via software configurable Yes • PROFlenergy Yes; in connection with the PROFINET Standard communication module • voltage ramp Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) Power Electronics 70 A • at 40 °C rated value 328 A • at 60 °C rated value 300 A • perating power for 3-phase motors -15 % • at 230 V at 40 °C rated value 200 kW • at 30 V at 40 °C rated value 200 kW • at 30 V at 40 °C rated value 200 kW • at 30 V at 40 °C rated value 200 kW • at 30 V at 40 °C rated value 200 kW • at 30 V at 40 °C rated value 200 kW				
• 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 outputYes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)Power Electronics370 A• at 40 °C rated value328 A• at 60 °C rated value300 A• operating voltage-15 %• relative negative tolerance of the operating voltage10 %• operating power for 3-phase motors10 %• at 30 °C rated value200 600 V• at 40 °C rated value200 WW• at 20 V at 40 °C rated value200 WW• at 40 °C rated value50 HZ• operating routage-15 %• relative negative tolerance of the operating voltage10 %• operating frequency 1 rated value200 kW• at 40 °C rated value250 kW• operating frequency 1 rated value50 Hz• operating frequency 1 rated value60 Hz				
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• error logbook Yes; Only in conjunction with special accessories • via software parameterizable No • via software configurable Yes • PROFlenergy Yes; in connection with the PROFINET Standard communication module • voltage ramp Yes • torque control No • analog output Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) Power Electronics 370 A • at 40 °C rated value 328 A • at 50 °C rated value 328 A • at 60 °C rated value 300 A • perating voltage -15 % relative negative tolerance of the operating voltage -15 % • at 230 V at 40 °C rated value 200 kW • at 400 °C rated value 200 kW • at 400 °C rated value 200 kW • rated value 200 kW • at 230 V at 40 °C rated value 10 % • at 400 °C rated value 200 kW • at 400 °C rated value 50 kW Operating frequency 1 rated value 50 Hz Operating frequency 1 rated value 60 Hz				
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• PROFlenergyYes; in connection with the PROFINET Standard communication module• voltage rampYes• torque controlNo• analog outputYes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HIM)Power Electronicsoperational current370 A• at 40 °C rated value328 A• at 50 °C rated value300 Aoperating voltage				
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• analog outputYees, 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)Power Electronics• operational current370 A• at 40 °C rated value370 A• at 50 °C rated value328 A• at 60 °C rated value300 A• perating voltage200 600 V• rated value200 600 V• rated value10 %• operating power for 3-phase motors10 %• at 230 V at 40 °C rated value200 kW• at 200 V at 40 °C rated value200 kW• at 500 V at 40 °C rated value50 kZ• at 500 V at 40 °C rated value50 kZ• at 500 V at 40 °C rated value60 kZ				
HMI)Power Electronicsoperational current• at 40 °C rated value370 A• at 50 °C rated value328 A• at 60 °C rated value300 Aoperating voltage• rated value200 600 Vrelative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage0 operating power for 3-phase motors• at 230 V at 40 °C rated value110 kW• at 500 V at 40 °C rated value200 kW• at 500 V at 40 °C rated value50 HzOperating frequency 1 rated value60 Hz	•			
operational current• at 40 °C rated value370 A• at 50 °C rated value328 A• at 60 °C rated value300 Aoperating voltage				
• at 40 °C rated value370 A• at 50 °C rated value328 A• at 60 °C rated value300 Aoperating voltage200 600 V• rated value200 600 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 value110 kW• at 400 V at 40 °C rated value200 kW• at 500 V at 40 °C rated value50 kW• at 500 V at 40 °C rated value60 Hz				
• at 50 °C rated value328 A• at 60 °C rated value300 Aoperating voltage200 600 V• rated value200 600 Vrelative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage10 %operating power for 3-phase motors110 kW• at 230 V at 40 °C rated value110 kW• at 400 V at 40 °C rated value200 kW• at 500 V at 40 °C rated value250 kWOperating frequency 1 rated value50 HzOperating frequency 2 rated value60 Hz				
• at 60 °C rated value300 Aoperating voltage200 600 V• rated value200 600 Vrelative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage10 %operating power for 3-phase motors				
operating voltage200 600 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 value110 kW• at 400 V at 40 °C rated value200 kW• at 500 V at 40 °C rated value250 kW• at 500 V at 40 °C rated value50 HzOperating frequency 1 rated value60 Hz				
• rated value200 600 Vrelative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage10 %operating power for 3-phase motors110 kW• at 230 V at 40 °C rated value200 kW• at 400 V at 40 °C rated value200 kW• at 500 V at 40 °C rated value250 kWOperating frequency 1 rated value50 HzOperating frequency 2 rated value60 Hz		300 A		
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relative positive tolerance of the operating voltage10 %operating power for 3-phase motors110 kW• at 230 V at 40 °C rated value110 kW• at 400 V at 40 °C rated value200 kW• at 500 V at 40 °C rated value250 kWOperating frequency 1 rated value50 HzOperating frequency 2 rated value60 Hz				
operating power for 3-phase motors• at 230 V at 40 °C rated value110 kW• at 400 V at 40 °C rated value200 kW• at 500 V at 40 °C rated value250 kWOperating frequency 1 rated value50 HzOperating frequency 2 rated value60 Hz				
• at 230 V at 40 °C rated value110 kW• at 400 V at 40 °C rated value200 kW• at 500 V at 40 °C rated value250 kWOperating frequency 1 rated value50 HzOperating frequency 2 rated value60 Hz		10 %		
• at 400 V at 40 °C rated value200 kW• at 500 V at 40 °C rated value250 kWOperating frequency 1 rated value50 HzOperating frequency 2 rated value60 Hz				
at 500 V at 40 °C rated value 250 kW Operating frequency 1 rated value 50 Hz Operating frequency 2 rated value 60 Hz				
Operating frequency 1 rated value 50 Hz Operating frequency 2 rated value 60 Hz				
Operating frequency 2 rated value 60 Hz				
relative negative tolerance of the operating frequency -10 %				
	relative negative tolerance of the operating frequency	-10 %		
relative positive tolerance of the operating frequency 10 %		10 %		
adjustable motor current	-			
at rotary coding switch on switch position 1 160 A				
at rotary coding switch on switch position 2 174 A	 at rotary coding switch on switch position 2 	174 A		

 at rotary coding switch on switch position 3 	
 at rotary coding switch on switch position 4 	188 A 202 A 216 A Op
 at rotary coding switch on switch position 5 	216 A
 at rotary coding switch on switch position 6 	230 A
 at rotary coding switch on switch position 7 	244 A
 at rotary coding switch on switch position 8 	258 A
 at rotary coding switch on switch position 9 	272 A
 at rotary coding switch on switch position 10 	286 A
 at rotary coding switch on switch position 11 	300 A
 at rotary coding switch on switch position 12 	314 A
 at rotary coding switch on switch position 13 	328 A
 at rotary coding switch on switch position 14 	342 A
 at rotary coding switch on switch position 15 	356 A
 at rotary coding switch on switch position 16 	370 A
• minimum	160 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	
• at 40 °C after startup	36 W
• at 50 °C after startup	29 W
• at 60 °C after startup	24 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	3 726 W
• at 50 °C during startup	3 124 W
• at 60 °C during startup	2 748 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	24.14
 at 50 Hz rated value at 60 Hz rated value 	24 V 24 V
	-20 %
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply	20 %
voltage at AC at 50 Hz	
relative negative tolerance of the control supply	-20 %
voltage at AC at 60 Hz	
relative positive tolerance of the control supply	20 %
voltage at AC at 60 Hz	50 60 Hz
control supply voltage frequency relative negative tolerance of the control supply	50 60 Hz -10 %
voltage frequency	-10 %
relative positive tolerance of the control supply	10 %
voltage frequency	
control supply voltage	
at DC rated value	24 V
relative negative tolerance of the control supply	-20 %
voltage at DC	
relative positive tolerance of the control supply	20 %
voltage at DC	
control supply current in standby mode rated value	160 mA
holding current in bypass operation rated value	490 mA
locked-rotor current at close of bypass contact maximum	7.6 A
inrush current peak at application of control supply voltage	3.3 A
maximum	
duration of inrush current peak at application of control	12.1 ms
supply voltage	
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	
Inputs/ Outputs	1
number of digital inputs	1

number of digital inputs

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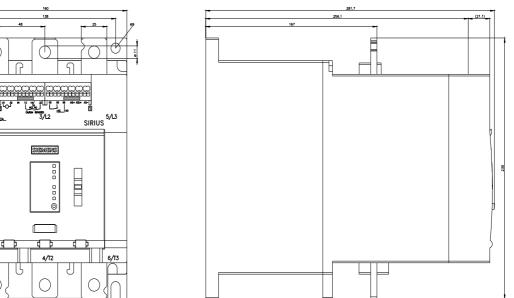
number of digital outputs	³ diontudong		
not parameterizable	2 2 normally-open co. VO) / changeover contact (CO)		
digital output version			
number of analog outputs	1		
switching capacity current of the relay outputs			
at AC-15 at 250 V rated value	3 A		
at DC-13 at 24 V rated value	1 A		
Installation/ mounting/ dimensions			
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back		
fastening method	screw fixing		
height	230 mm		
width	160 mm		
depth	282 mm		
required spacing with side-by-side mounting			
 forwards 	10 mm		
backwards	0 mm		
● upwards	100 mm		
downwards	75 mm		
at the side	5 mm		
weight without packaging	7.3 kg		
Connections/ Terminals			
type of electrical connection			
 for main current circuit 	busbar connection		
for control circuit	spring-loaded terminals		
width of connection bar maximum	35 mm; with connection cover 3RT1966-4EA1 maximum length 45 mm		
type of connectable conductor cross-sections			
 for main contacts for box terminal using the front clamping point solid 	95 300 mm²		
 for main contacts for box terminal using the front clamping point finely stranded with core end processing 	70 240 mm²		
 for main contacts for box terminal using the front clamping point finely stranded without core end processing 	70 240 mm²		
 for main contacts for box terminal using the front clamping point stranded 	95 300 mm²		
 at AWG cables for main contacts for box terminal using the front clamping point 	3/0 600 kcmil		
 for main contacts for box terminal using the back clamping point solid 	120 240 mm²		
 at AWG cables for main contacts for box terminal using the back clamping point 	250 500 kcmil		
 for main contacts for box terminal using both clamping points solid 	min. 2x 70 mm², max. 2x 240 mm²		
 for main contacts for box terminal using both clamping points finely stranded with core end processing 	min. 2x 50 mm², max. 2x 185 mm²		
 for main contacts for box terminal using both clamping points finely stranded without core end processing 	min. 2x 50 mm², max. 2x 185 mm²		
• for main contacts for box terminal using both clamping points stranded	min. 2x 70 mm², max. 2x 240 mm²		
 for main contacts for box terminal using the back clamping point finely stranded with core end processing 	120 185 mm²		
 for main contacts for box terminal using the back clamping point finely stranded without core end processing 	120 185 mm²		
 for main contacts for box terminal using the back clamping point stranded 	120 240 mm²		
type of connectable conductor cross-sections			
 at AWG cables for main current circuit solid 	2/0 500 kcmil		
 for DIN cable lug for main contacts stranded 	50 240 mm²		
 for DIN cable lug for main contacts finely stranded 	70 240 mm²		

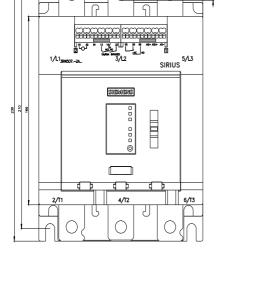
type of connectable conductor cross-sections	diontudona			
 for control circuit solid 	2x (0.25 1.5 mm) dientudon			
 for control circuit finely stranded with core end processing 	2x (0.25 1.5 mm			
 at AWG cables for control circuit solid 	2x (24 16)			
at AWG cables for control circuit finely stranded with core end processing	2x (24 16)			
wire length				
 between soft starter and motor maximum 	800 m			
 at the digital inputs at AC maximum 	1 000 m			
tightening torque				
for main contacts with screw-type terminals	14 24 N·m			
 for auxiliary and control contacts with screw-type terminals 	0.8 1.2 N·m			
tightening torque [lbf·in]				
for main contacts with screw-type terminals	124 210 lbf in			
 for auxiliary and control contacts with screw-type terminals 	7 10.3 lbf in			
Ambient conditions				
installation altitude at height above sea level maximum	5 000 m; derating as of 1000 m, see Manual			
ambient temperature				
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above			
during storage and transport	-40 +80 °C			
environmental category				
during operation according to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6			
 during storage according to IEC 60721 	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4			
during transport according to IEC 60721	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)			
EMC emitted interference	acc. to IEC 60947-4-2: Class A			
Communication/ Protocol				
communication module is supported	Vee			
PROFINET standard EtherNet/IP	Yes			
 Modbus RTU Modbus TCP 	Yes			
PROFIBUS	Yes			
UL/CSA ratings				
manufacturer's article number				
of the fuse				
 usable for Standard Faults up to 575/600 V according to UL 	Type: Class L, max. 1200 A; lq = 18 kA			
— usable for High Faults up to 575/600 V according to UL	Type: Class L, max. 1200 A; Iq = 100 kA			
operating power [hp] for 3-phase motors				
• at 200/208 V at 50 °C rated value	100 hp			
• at 220/230 V at 50 °C rated value	125 hp			
• at 460/480 V at 50 °C rated value	250 hp			
• at 575/600 V at 50 °C rated value	300 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	No.			
• ATEX	Yes			
IECEx hardware fault tolerance according to IEC 61508 relating to ATEX	Yes 0			
relating to ATEX PFDavg with low demand rate according to IEC 61508	0.09			
relating to ATEX	0.00			

PFHD with high dem relating to ATEX			9E-6 1	I/h	dien	tudong
Safety Integrity Leve relating to ATEX	el (SIL) according to	IEC 61508	SIL1	SIL1		lauong
T1 value for proof te according to IEC 61			3 у			
Certificates/ approval	S					
General Product Ap	oproval					For use in hazard- ous locations
		<u>Confirmatio</u>	<u>on</u>		EAC	IECEX
For use in hazard- ous locations	Declaration of Conformity	Test Certifica	ates	Marine / Shipping		
KEx ATEX	CE EG-Konf.	<u>Type Test Ce</u> <u>ates/Test Re</u>		ABS	Lloyd's Register uis	PRS
other						
<u>Confirmation</u>						

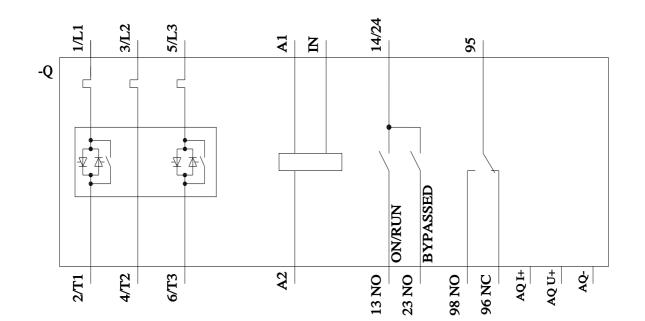
Further information
Information- and Downloadcenter (Catalogs, Brochures,)
https://www.siemens.com/ic10
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5075-2AB05
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5075-2AB05
Service&Support (Manuals, Certificates, Characteristics, FAQs,)
https://support.industry.siemens.com/cs/ww/en/ps/3RW5075-2AB05
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5075-2AB05⟨=en
Characteristic: Tripping characteristics, I ² t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3RW5075-2AB05/char
Characteristic: Installation altitude
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5075-2AB05&objecttype=14&gridview=view1
Simulation Tool for Soft Starters (STS)
https://support.industry.siemens.com/cs/ww/en/view/101494917







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