SIEMENS

Data sheet

3RW5216-1AC04



SIRIUS soft starter 200-480 V 32 A, 24 V AC/DC Screw terminals Analog output

product brand name	SIRIUS			
product category	Hybrid switching devices			
product designation	Soft starter			
product type designation	3RW52			
manufacturer's article number				
 of standard HMI module usable 	<u>3RW5980-0HS00</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 	3RV2032-4VA10; Type of coordination 1, Iq = 65 kA, CLASS 10			
 of circuit breaker usable at 500 V 	3RV2032-4VA10; Type of coordination 1, Iq = 10 kA, CLASS 10			
 of circuit breaker usable at 400 V at inside-delta circuit 	3RV2032-4JA10; Type of coordination 1, Iq = 65 kA, CLASS 10			
 of circuit breaker usable at 500 V at inside-delta circuit 	3RV2032-4JA10; Type of coordination 1, Iq = 10 kA, CLASS 10			
 of the gG fuse usable up to 690 V 	3NA3824-6; Type of coordination 1, Iq = 65 kA			
 of the gG fuse usable at inside-delta circuit up to 500 V 	3NA3824-6; Type of coordination 1, Iq = 65 kA			
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1818-0; Type of coordination 2, Iq = 65 kA</u>			
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE8022-1; Type of coordination 2, Iq = 65 kA</u>			
General technical data				
starting voltage [%]	30 100 %			
stopping voltage [%]	50 %; non-adjustable			
start-up ramp time of soft starter	0 20 s			
current limiting value [%] adjustable	130 700 %			
certificate of suitability				
CE marking	Yes			
 UL approval 	Yes			

CSA approval

• is supported HMI-Standard

number of controlled phases

• is supported HMI-High Feature

buffering time in the event of power failure

product feature integrated bypass contact system

product componentHMI-High Feature

Yes

No

Yes

Yes

Yes

3

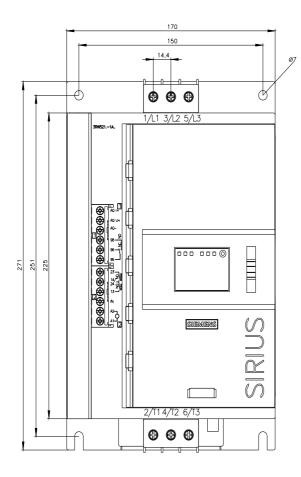
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degree of pollution 9. acc is BEG 60947-4.2 impuise voltage reted value 6 kV becking voltage reted value 6 kV service factor 1 service factor 1 service factor 6 kV maximum permissible voltage for protective separation 6 kV - between main douxding voltage 6 fby 11 ms, from 12 / 11 ms with polential contact lifting uitization category according to IEC 0097-4.2 AC 53a voltage reted value 6427/152018 Subtance Prohotinace (Date) 02/152018 subtance forthoting or top IEC 03134-2 0 product function 4247/353-02-1 i ramp-point off stafforg) Ves i ramp-point off stafforg) Yes i randp-date protection Yes						
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aurge voltage resistance rated value 6 kV maximum permissible voltage for protective separation 600 V shock resistance 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting uitzation category according to EC 6047-4-2 AC 58 a voltage resistance 0 solutance Protochina (DEC 6047-4-2 AC 58 a voltage resistance and auciaty of EC 6047-4-2 AC 58 a Solutance Protochinance (Land oxide) - 137-36 a 2 solutance Protochinance (Land oxide) - 137-36 a 2 product function Yes ramp-up (soft staffing) Yes varianp-up (soft staffing) Yes varianp-up (soft staffing) Yes varianp-up (soft staffing) Yes variant invasion						
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reference code according to IEC 81346-2 Q Substance Prohibitance (Park) 02/15/2018 SWHC substance name Lead 7/439-92-1 Lead 7/439-92-1 Lead 7/439-92-1 product function - + ramp-up (soft starting) Yes - ramp-down (soft stor) Yes - adjustable current limitation Yes - option robotic overfoad protection Yes - initirize device protection Yes - initize device protection <td></td> <td></td>						
Substance Prohibitence (Date) 02/15/2018 SWE substance name Least approximation (Least approximation of the problem) - 1077-83-80 add approximation (Least approximation of the problem) - 1078-81-80-70-80 product function VE i-amp-top (soft stating) VES i-amp-top (soft stating) VES i-adjustable current limitation VES i-adjus Cadjusta						
SVHC substance name Lext - 7439-92-1 2-methyd-1-(4-methydling) 2-methyd-1-(4-methydling) product function - • many-up (soft starting) Yes • soft Torque Yes • soft Torgue Yes • soft Torgue Yes						
Lead monoxide (dead oxide) - 1317-36-8 Product function product function ************************************						
• ramp-up (soft starting) Yes • earn-down (soft stop) Yes • soft forque Yes • adjustable current limitation Yes • adjustable current limitation Yes • ump ramp down Yes • ump ramp down Yes • intifies device protection Yes • individe device protection Yes • auto-RESET Yes • individe device Yes • individe parameterizable Yes • inside device Yes • informaterizable Yes • individe parameterizable Yes • informaterizable Yes • informaterizable Yes • informoreupotable Yes <td< th=""><th>SVHC Substance name</th><th colspan="5">Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4</th></td<>	SVHC Substance name	Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4				
rang-own (soft stop)Yes• is all TarqueYes• is all TarqueYes• is all TarqueYes• is all trained current limitationYes• pump ramp downYes• intrinsic device protectionYes• intrinsic device protectionYes• evaluation of themistor motor protectionNo• inside-detta circuitYes• evaluation of themistor motor protectionYes• inside-detta circuitYes• evaluation of themistor motor protectionYes• evaluation of the control supply voltageYes• evaluation of the control supply voltageYes• evaluation functionYes• evaluation functionYes• evaluation functionYes• evaluation of protectionYes• is a software configurableYes• evaluation of control circuitYes• evaluation functionYes• evaluation evaluationYes• evaluation functionYes• evaluation functionYes• evaluation functionYes• evaluation functionYes• evaluation functionYes• evaluation functionYes<	product function					
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• adjustable current limitationYes• ump ramp downYes• inition device protectionYes• inition device protectionYes• evaluation of hermistor motor protectionNo• inide-deta circuitYes• aduk-RESETYes• monur RESETYes• ermote resetYes• communication functionYes• operating measured value displayYes• operating measured value displayYes• vis software configurableYes• vis software configurableYes• vis software configurableYes• removable terminal for control circuitYes• analog outputYes• analog outputYes• analog outputYes• removable terminal for control circuitYes• analog outputYes• analog outputYes	 ramp-down (soft stop) 	Yes				
• pump ramp downYes• Intrinsic device protectionYes• motor overload protectionNo• inside-delta circuitYes• auto-RESETYes• auto-RESETYes• emotor resetYes• emotor resetYes• emotor resetYes• ommunication functionYes• emotor resetYes• operating measured value displayYes• emotor resetYes• oror logbookYes• error logbookYes• inside-delta forcuitYes• inside-delta for control circuitYes• via software configurableYes• inside-delta for control circuitYes• inside-delta for control circuitYes• indorque controlYes• indo Cr rated value32.A• at 60 °C rated value25.4 A• at 60 °C rated value55.4 A• at 60 °C rated value26.4• at 60 °C rated value49.A• at 60 °C rated value25.4 A• at 60 °C rated value25.4 A• at 60 °C rated value26.4• at 60 °C rated value26.4• at 60 °C rated value26.4• at 60 °C rated value16.5 °C rated value• at 60 °C rated value26.4• at 60 °C rated value55.4 A• at 60 °C rated value26.4• at 60 °C rated value26.4• at 60 °C rated value16.5 °C• at 60 °C rated value26.4• at 60 °C rated value <td< td=""><td>Soft Torque</td><td colspan="5">Yes</td></td<>	Soft Torque	Yes				
Intrinsic device protectionYes• indor overlead protectionYes; Electronic motor overlead protection• valuation of thermistor motor protectionNo• inside-deta circuitYes• auto-RESETYes• auto-RESETYes• manual RESETYes; Su turning off the control supply voltage• communication functionYes; Only in conjunction with special accessories• communication functionYes; Only in conjunction with special accessories• error topbookYes; In connection with the PROFINET Standard communication module• via software configurableYes• torque controlYes; In connection with the PROFINET Standard communication module• firmware updateYes• forque controlYes; Ju connection with the PROFINET Standard communication module• firmware updateYes• torque controlYes• torque controlYes; Ju connection with the PROFINET Standard communication module• tart of Crated value32 A• analog outputYes; Ju cond (default) / 0 10 V (parameterizable with High Feature HMI)• order value32 A• at 00°C rated value32 A• at 00°C rated value49 A• at 00°C rated value40 A• at 00°C rated val	 adjustable current limitation 	Yes				
• motor overload protectionYes; Electronic motor overload protection• evaluation of thermistor motor protectionNo• inside-delta circuitYes• auto-RESETYes• emote resetYes; By turning off the control supply voltage• communication functionYes;• emote resetYes; Only in conjunction with special accessories• communication functionYes;• error logbookYes; Only in conjunction with special accessories• error logbookYes; Only in conjunction with special accessories• via software configurableYes;• via software configurableYes;• error value displayYes; in connection with the PROFINET Standard communication module• firmware updateYes• removable terminal for control circuitYes;• lorque controlNo• analog outputYes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)• Deperational current32 A• at 40 °C rated value32 A• at 60 °C rated value35 A• at 60 °C rated value45 A <trr>• at 60 °C rated value45 A</trr>	 pump ramp down 	Yes				
• evaluation of thermistor motor protectionNo• inside-detta circuitYes• 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 configurableYes; Only in conjunction with special accessories• via software configurableYes; In connection with the PROFINET Standard communication module• firmware updateYes; in connection with the PROFINET Standard communication module• firmware updateYes; an connection with the PROFINET Standard communication module• target controlNo• analog outputYes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)• brower control32 A• at 40 °C rated value32 A• at 60 °C rated value32 A• at 60 °C rated value45 A <trr>• at 60 °C rat</trr>	 intrinsic device protection 	Yes				
• inside-delta circuitYes• auto-RESETYes• manual RESETYes• remote resetYes; By turning off the control supply voltage• communication functionYes• communication functionYes; Only in conjunction with special accessories• error logbookYes; Only in conjunction with special accessories• error logbookYes; 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• firmware updateYes• forque controlYes• forque controlYes; 420 mA (default) / 0 10 V (parameterizable with High Feature HMI)• torque controlS2 A• at do "C rated value32 A• at do "C rated value28 A• at do "C rated value49 A• at do "C rated value40 A <td> motor overload protection </td> <td>Yes; Electronic motor overload protection</td>	 motor overload protection 	Yes; Electronic motor overload protection				
• auto-RESETYes• manual RESETYes, By turing off the control supply voltage• nemote resetYes, By turing off the control supply voltage• communication functionYes, Only in conjunction with special accessories• operating measured value displayYes, Only in conjunction with special accessories• error logbookYes, Only in conjunction with special accessories• error logbookYes, Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes• removable terminal for control circuitYes• firmware updateYes, In connection with the PROFINET Standard communication module• firmware updateYes• tardo "Crated valueYes, 420 mA (default) / 010 V (parameterizable with High Feature HMI)• over Electronics22 A• at 40 "Crated value22 A• at 40 "Crated value22 A• at 40 "Crated value26 A• at 60 "Crated value45 A• at 60 "Crated value45 A• at 60 "Crated value45 A• at 60 "Crated value20 480 V• at 60 "Crated value15 %• at 60 "Crated value20 480 V• at 60 "Crated value20 480 V• at 60 "Crated value15 %• at 60 "Crated value15 %• at 60 "Crated value	 evaluation of thermistor motor protection 	No				
• nanual RESETYes• remote resetYes; By turning off the control supply voltage• communication functionYes; Dry in conjunction with special accessories• operating measured value displayYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes; in connection with the PROFINET Standard communication module• removable terminal for control circuitYes; in connection with the PROFINET Standard communication module• removable terminal for control circuitYes; a. 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)• removable terminal for control circuitYes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)• analog outputYes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)• are to 'C rated value22 A• at 60 'C rated value28 A A• at 60 'C rated value28 A• at 60 'C rated value49 A• at 60 'C rated value49 A• at 60 'C rated value40 A• at 60 'C rated value200 480 V• at 61 'C rated value200 480 V• at 61 'C rated value10 'S• at 61 'C rated v	inside-delta circuit	Yes				
• remote reselYes; 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• error logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes; in connection with the PROFINET Standard communication module• firmware updateYes; in connection with the PROFINET Standard communication module• firmware updateYes; a 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)• orque controlYes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)• analog outputYes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)• orter davalue32 A• at 40 °C rated value32 A• at 40 °C rated value32 A• at 40 °C rated value45 A• at 60 °C rated value200 480 V• at 60 °C rated value200 480 V• at inside-delta circuit rated value10 %• rated value15 %• at inside-delta circuit rated value15 %• at inside-delta circuit rated value15 %• at inside-delta circuit15 %• rated value tolerance of the operating voltage at inside-delta circuit15 %	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• firmware updateYes• removable terminal for control circuitYes• torque controlNo• analog outputYes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)• over Electronics22 A• at 40 °C rated value22 A• at 60 °C rated value25 A A• at 60 °C rated value45 A• at 60 °C rated value45 A• at 60 °C rated value20 480 V• at 60 °C rated value45 A• at 60 °C rated value20 480 V• at 60 °C rated value45 A• at 60 °C rated value20 480 V• at 60 °C rated value45 A• at 60 °C rated value55 4 A• at 60 °C rated value45 A• at 60 °C rated value45 A• at 60 °C rated value75 %• at 60 °C rated value10 %• at 60 °C rated value10 %• at 60 °C rated value10 %• at 60 °C rated value45 A• at 60 °C rated value10 %• at 60 °C rated value <t< td=""><td>manual RESET</td><td>Yes</td></t<>	manual RESET	Yes				
• operating measured value displayYes; Only in conjunction with special accessories• error logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes• PROFInergyYes; in connection with the PROFINET Standard communication module• firmware updateYes• removable terminal for control circuitYes• torque controlNo• analog outputYes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)• analog output22 A• at 40 °C rated value32 A• at 60 °C rated value28 A• at 60 °C rated value28 A• at 60 °C rated value49 A• at 60 °C rated value20 480 V• at 60 °C rated value20 480 V• at 60 °C rated value20 480 V• at inside-delta circuit rated value20 480 V• at inside-delta circuit rated value15 %• at inside-delta circuit rated value16 %• at inside-delta circuit15 %• at inside-delta circuit16 %• at inside-delta circuit16 %• at inside-delta circuit16 %• at inside-delta circuit16 %• at inside-delta circuit <td>remote reset</td> <td>Yes; By turning off the control supply voltage</td>	remote reset	Yes; By turning off the control supply voltage				
• error logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes• in software configurableYes; in connection with the PROFINET Standard communication module• firmware updateYes• removable terminal for control circuitYes• torque controlNo• analog outputYes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)• operational current22 A• at 40 °C rated value32 A• at 60 °C rated value26 A• at 60 °C rated value55.4 A• at 60 °C rated value49 A• at 60 °C rated value45 A• at 60 °C rated value20 480 V• at 60 °C rated value20 480 V• at 60 °C rated value15 %• at 60 °C rated value16 %• at 60 °C rated value <td> communication function </td> <td>Yes</td>	 communication function 	Yes				
• via software parameterizableNo• via software configurableYes• PROFlenergyYes; in connection with the PROFINET Standard communication module• firmware updateYes• removable terminal for control circuitYes• torque controlNo• analog outputYes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)• over Electronics32 A• at 40 °C rated value28.4 A• at 60 °C rated value26 A• at 60 °C rated value45 A• at 60 °C rated value45 A• at 60 °C rated value45 A• at 60 °C rated value15 %• at 60 °C rated value15 %• at 60 °C rated value200 480 V• at 60 °C rated value10 %• at 60 °C rated value10 %	 operating measured value display 	Yes; Only in conjunction with special accessories				
• via software configurableYes• PROFlenergyYes in connection with the PROFINET Standard communication module• firmware updateYes• removable terminal for control circuitYes• torque controlNo• analog outputYes (20 mA (default) / 0 10 V (parameterizable with High Feature HMI)• over ElectronicsS2 A• operational current28 A A• at 40 °C rated value28 A• at 60 °C rated value25 A• operational current inside-delta circuit55 A• at 60 °C rated value45 A• at 60 °C rated value25 A• at 60 °C rated value20 480 V• at 60 °C rated value15 %• at 60 °C rated value20 480 V• at 60 °C rated value20 480 V• at 60 °C rated value15 %• at 60 °C rated value15 %• at 60 °C rated value16 %• at 60 °C rated value <t< th=""><th>error logbook</th><th>Yes; Only in conjunction with special accessories</th></t<>	error logbook	Yes; Only in conjunction with special accessories				
PROFInency Yes; in connection with the PROFINET Standard communication module • removable terminal for control circuit Yes; • torque control Yes; • torque control No • analog output Yes; • operational current Yes; • at 40 °C rated value 32 A • at 60 °C rated value 28.4 A • at 60 °C rated value 26 A • at 60 °C rated value 49 A • at 60 °C rated value 49 A • at 60 °C rated value 49 A • at 60 °C rated value 200 480 V • at 60 °C rated value 200 480 V • at 60 °C rated value 200 480 V • at 60 °C rated value 15 % • at 60 °C rated value 10 % • at 60 °C rated value 45 A • at 60 °C rated value 45 A • at 60 °C rated value 15 % • at 60 °C rated value 10 % • at 60 °C rated value 200 480 V • at 60 °C rated value 10 % • rated value 15 % • ra	 via software parameterizable 	No				
firmware updateYes• removable terminal for control circuitYes• torque controlNo• analog outputYes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)• over Electronics• over Electronics32 A• at 40 °C rated value32 A• at 60 °C rated value26 A• at 60 °C rated value49 A• at 60 °C rated value49 A• at 60 °C rated value49 A• at 60 °C rated value200 480 V• at 60 °C rated value200 480 V• at 60 °C rated value200 480 V• at 60 °C rated value10 %• at inside-delta circuit115 %• at 60 °C rated value10	 via software configurable 	Yes				
• removable terminal for control circuitYes• torque controlNo• analog outputYes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)• over Electronics• operational current32 A• at 40 °C rated value32 A• at 50 °C rated value28.4 A• at 60 °C rated value26 A• operational current at inside-delta circuit55.4 A• at 60 °C rated value49 A• at 60 °C rated value49 A• at 60 °C rated value200 480 V• at 60 °C rated value200 480 V• at inside-delta circuit rated value200 480 V• at inside-delta circuit rated value15 %• relative negative tolerance of the operating voltage at inside-delta circuit-15 %• relative negative tolerance of the operating voltage at inside-delta circuit-15 %• relative positive tolerance of the operating voltage at inside-delta circuit-15 %• relative positive tolerance of the operating voltage at inside-delta circuit-15 %• relative positive tolerance of the operating voltage at inside-delta circuit-15 %• relative positive tolerance of the operating voltage at inside-delta circuit-15 %• relative positive tolerance of the operating voltage at inside-delta circuit-15 %• operating power for 3-phase motors-10 %	PROFlenergy	Yes; in connection with the PROFINET Standard communication module				
• torque controlNo• analog outputYes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)• over Electronics•• at 40 °C rated value32 A• at 40 °C rated value28.4 A• at 60 °C rated value26 A• at 60 °C rated value55.4 A• at 60 °C rated value49 A• at 60 °C rated value49 A• at 60 °C rated value200 480 V• at 60 °C rated value200 480 V• at inside-delta circuit rated value200 480 V• at inside-delta circuit rated value115 %• rated volue115 %• relative negative tolerance of the operating voltage at inside-delta circuit115 %• relative positive tolerance of the operating voltage at inside-delta circuit10 %• parting power for 3-phase motors•	 firmware update 	Yes				
• analog outputYes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)• ower Electronics• operational current32 A• at 40 °C rated value32 A• at 50 °C rated value28.4 A• at 60 °C rated value26 A• operational current at inside-delta circuit90 A• at 40 °C rated value55.4 A• at 60 °C rated value49 A• at 60 °C rated value200 480 V• at 60 °C rated value200 480 V• at elative negative tolerance of the operating voltage10 %• relative positive tolerance of the operating voltage at inside-delta circuit10 %• relative positive tolerance of the operating voltage at inside-delta circuit10 %• relative positive tolerance of the operating voltage at inside-delta circuit10 %• relative positive tolerance of the operating voltage at inside-delta circuit10 %• relative positive tolerance of the operating voltage at inside-delta circuit10 %	 removable terminal for control circuit 	Yes				
Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value • at rated value • at inside-delta circuit rated value • at inside-delta circuit rated value • at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit • relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating p	torque control	No				
operational current32 A• at 40 °C rated value32 A• at 50 °C rated value28.4 A• at 60 °C rated value26 Aoperational current at inside-delta circuit26 A• at 40 °C rated value55.4 A• at 40 °C rated value49 A• at 60 °C rated value45 A• at 60 °C rated value200 480 V• at 60 °C rated value200 480 V• at sole-delta circuit rated value200 480 V• at inside-delta circuit rated value10 %• relative positive tolerance of the operating voltage at inside-delta circuit-15 %relative positive tolerance of the operating voltage at inside-delta circuit10 %relative positive tolerance of the operating voltage at inside-delta circuit10 %	 analog output 	Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)				
• at 40 °C rated value32 A• at 50 °C rated value28.4 A• at 60 °C rated value26 A• operational current at inside-delta circuit55.4 A• at 40 °C rated value49 A• at 50 °C rated value49 A• at 60 °C rated value200 480 V• at 60 °C rated value200 480 V• at inside-delta circuit rated value200 480 V• at inside-delta circuit rated value15 %• relative positive tolerance of the operating voltage10 %• relative positive tolerance of the operating voltage at inside-delta circuit10 %• relative positive tolerance of the operating voltage at inside-delta circuit10 %• relative positive tolerance of the operating voltage at inside-delta circuit10 %• relative positive tolerance of the operating voltage at inside-delta circuit10 %• relative positive tolerance of the operating voltage at inside-delta circuit10 %	Power Electronics					
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• at 60 °C rated value45 Aoperating voltage200480 V• rated value200480 V• at inside-delta circuit rated value15 %relative negative tolerance of the operating voltage10 %relative negative tolerance of the operating voltage at inside-delta circuit10 %relative negative tolerance of the operating voltage at inside-delta circuit10 %relative positive tolerance of the operating voltage at inside-delta circuit10 %operating power for 3-phase motorsL		55.4 A				
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inside-delta circuit 10 % relative positive tolerance of the operating voltage at inside-delta circuit 10 % operating power for 3-phase motors 10 %						
inside-delta circuit operating power for 3-phase motors	inside-delta circuit					
	inside-delta circuit	10 %				
		7.5 kW				

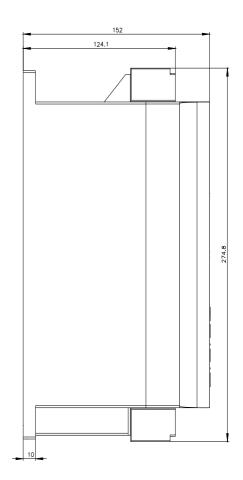
• at 230 V at inside-delta circuit at 40 °C rated value	15 kW
• at 400 V at 40 °C rated value	15 kW
at 400 V at inside-delta circuit at 40 °C rated value	22 kW
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
adjustable motor current	
 at rotary coding switch on switch position 1 	14 A
 at rotary coding switch on switch position 2 	15.2 A
 at rotary coding switch on switch position 3 	16.4 A
 at rotary coding switch on switch position 4 	17.6 A
 at rotary coding switch on switch position 5 	18.8 A
 at rotary coding switch on switch position 6 	20 A
 at rotary coding switch on switch position 7 	21.2 A
 at rotary coding switch on switch position 8 	22.4 A
 at rotary coding switch on switch position 9 	23.6 A
 at rotary coding switch on switch position 10 	24.8 A
 at rotary coding switch on switch position 11 	26 A
 at rotary coding switch on switch position 12 	27.2 A
 at rotary coding switch on switch position 13 	28.4 A
 at rotary coding switch on switch position 14 	29.6 A
 at rotary coding switch on switch position 15 	30.8 A
 at rotary coding switch on switch position 16 	32 A
• minimum	14 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	24.2 A
 for inside-delta circuit at rotary coding switch on switch position 2 	26.3 A
 for inside-delta circuit at rotary coding switch on switch position 3 	28.4 A
 for inside-delta circuit at rotary coding switch on switch position 4 	30.5 A
 for inside-delta circuit at rotary coding switch on switch position 5 	32.6 A
 for inside-delta circuit at rotary coding switch on switch position 6 	34.6 A
 for inside-delta circuit at rotary coding switch on switch position 7 	36.7 A
 for inside-delta circuit at rotary coding switch on switch position 8 	38.8 A
 for inside-delta circuit at rotary coding switch on switch position 9 	40.9 A
 for inside-delta circuit at rotary coding switch on switch position 10 	43 A
 for inside-delta circuit at rotary coding switch on switch position 11 	45 A
 for inside-delta circuit at rotary coding switch on switch position 12 	47.1 A
 for inside-delta circuit at rotary coding switch on switch position 13 	49.2 A
 for inside-delta circuit at rotary coding switch on switch position 14 	51.3 A
 for inside-delta circuit at rotary coding switch on switch position 15 	53.3 A
 for inside-delta circuit at rotary coding switch on switch position 16 	55.4 A
 at inside-delta circuit minimum 	24.2 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	22 W
● at 50 °C after startup	21 W
• at 60 °C after startup	20 W
power loss [W] at AC at current limitation 350 %	
● at 40 °C during startup	531 W

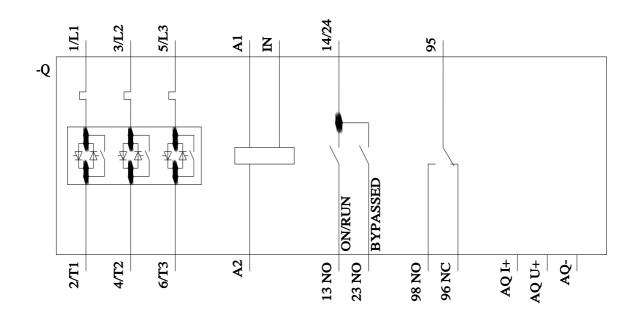
a at 50 °C during startur	440 W
• at 50 °C during startup	449 W 205 W
at 60 °C during startup Control circuit/ Control	395 W
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	2414
• at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply 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	-10 %
frequency	
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
inrush current by closing the bypass contacts maximum	0.75 A
inrush current peak at application of control supply voltage maximum	3.3 A
duration of inrush current peak at application of control supply voltage	12.1 ms
design of the overvoltage protection	Varistor
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply
Inputs/ Outputs	
number of digital inputs	1
number of digital outputs	3
 not parameterizable 	2
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)
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	275 mm
width	170 mm
depth	152 mm
required spacing with side-by-side mounting	
required spacing with side-by-side mounting • forwards	10 mm
• forwards	10 mm
forwardsbackwards	10 mm 0 mm
 forwards backwards upwards	10 mm 0 mm 100 mm
 forwards backwards upwards downwards 	10 mm 0 mm 100 mm 75 mm
 forwards backwards upwards downwards at the side 	10 mm 0 mm 100 mm 75 mm 5 mm
 forwards backwards upwards downwards at the side weight without packaging	10 mm 0 mm 100 mm 75 mm 5 mm
forwards backwards upwards downwards at the side weight without packaging Connections/ Terminals	10 mm 0 mm 100 mm 75 mm 5 mm
forwards backwards upwards downwards at the side weight without packaging Connections/ Terminals type of electrical connection	10 mm 0 mm 100 mm 75 mm 5 mm 2.3 kg

2 2.5 N·m 0.8 1.2 N·m				
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t), 3S2				
st not get				
kA				

• at 460/480 V at \$	50 °C rated value		20 hp			
• at 200/208 V at i	nside-delta circuit at 50 °C	C rated value	15 hp			
• at 220/230 V at inside-delta circuit at 50 °C rated value		15 hp				
• at 460/480 V at i	nside-delta circuit at 50 °0	C rated value	30 hp			
contact rating of auxi	liary contacts according	j to UL	R300-E	3300		
Electrical Safety						
protection class IP or	the front according to	IEC 60529	IP20			
touch protection on the	he front according to IE	C 60529	finger-s	safe, for vertical conta	ct from the front	
Approvals Certificates						
General Product App	roval					
<u>Confirmation</u>	UK CA			CE EG-Konf.		EHC
EMV		Test Certificate	es	Marine / Shipping		
RCM	KC	<u>Type Test Cer</u> ates/Test Rep		ABS	BUREAU VERITAS	Lloyd's Register uis
Marine / Shipping	other	Environment				
PRS	<u>Confirmation</u>	Siemens EcoTech		EPD	Environmental Con- firmations	
Further information						
Information- and Dow https://www.siemens.co Industry Mall (Online https://mall.industry.sie Cax online generator http://support.automatic Service&Support (Ma https://support.industry Image database (prod http://www.automation. Characteristic: Trippi https://support.industry Characteristic: Install	siemens.com/cs/ww/en/v nloadcenter (Catalogs, om/ic10 ordering system) mens.com/mall/en/en/Cat on.siemens.com/WW/CA2 nuals, Certificates, Chai .siemens.com/cs/ww/en/p luct images, 2D dimensi siemens.com/bilddb/cax ng characteristics, I²t, L .siemens.com/cs/ww/en/p ation altitude siemens.com/bilddb/indez	Brochures,) talog/product?mlfb: Korder/default.aspx racteristics, FAQs is/3RW5216-1AC0 on drawings, 3D i de.aspx?mlfb=3RV et-through curren is/3RW5216-1AC0	(?lang=er (s,) 4 models, (V5216-1 <i>F</i> t t 4/char	n&mlfb=3RW5216-1A device circuit diagra		







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