SIEMENS

Data sheet

3RW5235-6AC05



SIRIUS soft starter 200-600 V 143 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 	3VA2220-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3244-6; Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	3NA3244-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1227-0; Type of coordination 2, Iq = 65 kA</u>
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE3334-0B; Type of coordination 2, Iq = 65 kA</u>
eneral 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	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	3
trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2
buffering time in the event of power failure	
for main current circuit	100 ms
for control circuit	100 ms
insulation voltage rated value	600 V
degree of pollution	3, acc. to IEC 60947-4-2

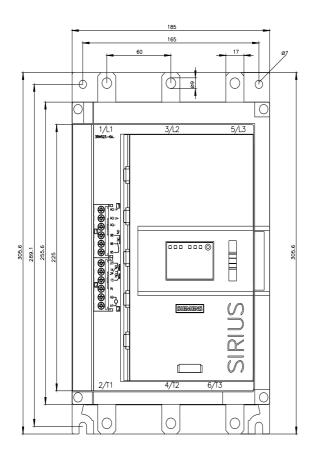
abschwart 1400 V service factor 1 service factor 1 curge voltage resistance rated value 6 kV maximum permissible voltage for protective separation 6 kV - between min and auxillary circuit 600 V 4 book resistance 15 g / 11 ms, from 1/2 g / 11 ms with potential contact ithing Vibration resistance 15 g / 11 ms, from 1/2 g / 11 ms with potential contact ithing Vibration resistance 15 g / 11 ms, from 1/2 g / 11 ms with potential contact ithing Vibration resistance 16 g / 11 ms, from 1/2 g / 11 ms with potential contact ithing Vibration resistance 16 g / 11 ms, from 1/2 g / 11 ms with potential contact ithing Vibration resistance 16 g / 11 ms, from 1/2 g / 11 ms with potential contact ithing Visition resistance 16 g / 11 ms, from 1/2 g / 11 ms with potential contact ithing Visition resistance 10 g / 11 ms, from 1/2 g / 11 ms with potential contact ithing Visition resistance 10 g / 11 ms, from 1/2 g / 11 ms with potential contact ithing Visition resistance 10 g / 11 ms, from 1/2 g / 11 ms with potential contact ithing Visition resistance 10 g / 11 ms, from 1/2 g / 11 ms with potential contact ithing Visition res	impulse voltage rated value	6 k)/				
service factor 1 surge voltage relations rated volue 6.VV maximum particulation volution 600 V • detecter main and auxility circuit 56 / V1 ms. from 12 g / 11 ms. with potential contact lifting • detecter main and auxility circuit 75 g / 11 ms. from 12 g / 11 ms. with potential contact lifting • detecter main and auxility circuit 75 g / 11 ms. from 12 g / 11 ms. with potential contact lifting • detecter main and auxility circuit 76 g / 71 ms. from 12 g / 11 ms. with potential contact lifting • detecter main and auxility circuit 76 g / 71 ms. from 12 g / 11 ms. with potential contact lifting • distance P of the IEC 81346-2 0 0 • distance P of the IEC 81346-2 0 0 • and up (coft dating) Yes * • endprised (cold at freq) Yes * • endprised (cold at freq) Yes * • endprised (cold a creat) Yes * • endprised (cold a creat) Yes * • endprised Velic (cold at freq) Yes * • endprised Velic (cold at freq) Yes * • endprisex end (vold (cold at creat) Yes </td <td>impulse voltage rated value</td> <td>6 kV</td>	impulse voltage rated value	6 kV				
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maximum permissible voltage for protective separation • bakes main and auxiling circuit • bakes main and auxiling circuit • bakes main and auxiling circuit • bakes mainted • takes main and auxiling circuit • bakes mainted • takes mainted						
• elsween main and auxilary circuit 600 V shock resistance 15g / 11ms, from 12g / 11ms with potential contact lifting vibration resistance 15g / 11ms, from 12g / 11ms with potential contact lifting utilization tastegry according to EC 0007-4-2 AC 63a Substance Prohibitance (Date) 0 starting of the potential contact lifting Ves • ramp-down (soft atop) Yes • signify and down Yes • signify and down of protection No • signify and down of protection Yes • signify and down of protection		6 KV				
shock resistance 15 g / 11 ms, twin putential contact lifting vibration resistance 15 mm to 6 Hz, 2g to 500 Hz vibration resistance 15 mm to 6 Hz, 2g to 500 Hz vibration resistance 0 vibration resistance 0 vibration Profiltance (10m to 100 + 100	· · · ·					
vibration resistance 15 mm to 6 Hz; 2g to 500 Hz utilization category according to IEC 6136-2 Q Substance Prohibitance [Date] 02152018 product function Yes • amp-up (soft starting) Yes • adjustable current limitation Yes • intrinsic device protection Yes • audo-RESET Yes • ando-RESET Yes • communication function Yes • operating measured value display Yes • is advice and protection No • advice protectize Yes • operating measured value display Yes • is advice configurable Yes • is advice configurable Yes <tr< td=""><td>· · · · · · · · · · · · · · · · · · ·</td><td colspan="4"></td></tr<>	· · · · · · · · · · · · · · · · · · ·					
utilization category according to EEC 8047-4-2 AC 53a reference code according to EEC 8136-2 Q Substance Prohibitance (Date) Q215/2018 product function Yes • amp-down (nof storp) Yes • and out (of staring) Yes • and out (of storp) Yes • and out RESET Yes • and RESET Yes • and RESET Yes • and RESET Yes • and out RESET Yes • and out RESET Yes • and and reparameterizable No • and and reparameterizable No • and and reparameterizable No • and output Yes • and output Yes </td <td></td> <td colspan="3"></td>						
inference code according to IEC 91346-2 Q Substance Prohibitance (Date) 9215218 product function Yes • ramp-up (soft starting) Yes • samp down (soft stop) Yes • adjustable current fundation Yes • adjustable configurable Yes • adjus configurable Yes						
Butance Prohibitance (Date) 02/15/2018 product function Yes • amp-down (soft stor) Yes • adiputable current limitation Yes • adiputable terminal for control circuit <						
product function Yes • ramp-up (soft starting) Yes • ramp-up (soft starting) Yes • soft Torque Yes • adjustable current finitation Yes • adjustable current finitation Yes • intrinsic device protection Yes • intrinsic device protection Yes • evaluation of thermistor motor protection No • inside defa crount Yes • audo-RESET Yes • audo-RESET Yes • annual RESET Yes • communication function Yes • oparating measured value display Yes • oparating measured value display Yes • audo-RESET Yes • audo-RESET Yes • audo-RESET Yes • oparating measured value display Yes • oparating measured value display Yes • arron olgook Yes • arron olgook Yes • finder control circuit Yes • finder control circuit Yes • finder control direuit Yes • arron olgood Yes • arron olgood Yes • finder cated value 128 A • arron olgood Yes <tr< td=""><td></td><td colspan="4"></td></tr<>						
• ramp-up (off starting) Yes • aimp-down (soft stop) Yes • adjustable current limitation Yes • up prip rap down Yes • infinitie device protection Yes • infinitie device protection Yes • evaluation of thermistor motor protection No • evaluation function Yes • error logok Yes (burning off the control supply voltage • error logok Yes (only in conjunction with special accessories • evaluation function Yes • error logok Yes (only in conjunction with special accessories • evaluation Yes (only in conjunction with special accessories • error logok Yes • error logok Yes • error logok Yes • remore beaminal for control circuit Yes		02/15/2018				
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• error logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes• PROFIDenergyYes; 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)Power Electronics• analog outputYes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)Power Electronics• at 40 °C rated value143 A• at 60 °C rated value128 A• at 60 °C rated value248 A• at 60 °C rated value222 A• at 60 °C rated value200 600 V• at 60 °C rated value200 600 V• at 60 °C rated value200 600 V• at inside-delta circuit rated value200 600 V• at inside-delta circuit rated value15 %• relative positive tolerance of the operating voltage10 %relative negative tolerance of the operating voltage at inside-delta circuit at 40 °C rated value15 %• at 230 V at 40 °C rated value37 kW• at 230 V at 40 °C rated value75 kW• at 230 V at 40 °C rated value75 kW• at 230 V at 40 °C rated value75 kW• at 500 V at 40 °C rated value132 kW• at 500 V at 40 °C rated value132 kW• at 500 V at 40 °C rated value10 kW	 communication function 	Yes				
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• at 60 °C rated value118 Aoperational current at inside-delta circuit248 A• at 40 °C rated value248 A• at 50 °C rated value204 A• at 60 °C rated value200 A• at 60 °C rated value200 600 V• at 60 °C rated value200 600 V• at inside-delta circuit rated value10 %relative negative 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 circuit37 kW• at 230 V at 40 °C rated value37 kW• at 230 V at 40 °C rated value75 kW• at 400 V at 0°C rated value132 kW• at 400 V at inside-delta circuit at 40 °C rated value132 kW• at 500 V at 0°C rated value90 kW• at 500 V at 0°C rated value160 kW						
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• at 40 °C rated value248 A• at 50 °C rated value222 A• at 60 °C rated value204 Aoperating voltage200 600 V• at inside-delta circuit rated value200 600 V• at inside-delta circuit rated value200 600 Vrelative negative tolerance of the operating voltage-15 %relative negative tolerance of the operating voltage10 %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 %operating power for 3-phase motors-• at 230 V at 40 °C rated value37 kW• at 230 V at 40 °C rated value75 kW• at 400 V at 40 °C rated value132 kW• at 400 V at 40 °C rated value90 kW• at 500 V at 40 °C rated value160 kW		118 A				
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• at 60 °C rated value204 Aoperating voltage200 600 V• rated value200 600 V• at inside-delta circuit rated value200 600 Vrelative negative tolerance of the operating voltage-15 %relative negative tolerance of the operating voltage10 %relative positive tolerance of the operating voltage at inside-delta circuit-15 %relative positive tolerance of the operating voltage at inside-delta circuit0 %relative positive tolerance of the operating voltage at inside-delta circuit10 %relative positive tolerance of the operating voltage at inside-delta circuit37 kWeat 230 V at 40 °C rated value37 kW• at 230 V at 40 °C rated value75 kW• at 400 V at inside-delta circuit at 40 °C rated value132 kW• at 400 V at inside-delta circuit at 40 °C rated value132 kW• at 500 V at 40 °C rated value90 kW• at 500 V at inside-delta circuit at 40 °C rated value160 kW						
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 rated value at inside-delta circuit rated value 200 600 V at inside-delta circuit rated value 200 600 V relative negative tolerance of the operating voltage -15 % relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors at 230 V at 40 °C rated value at 230 V at inside-delta circuit at 40 °C rated value 5 kW at 400 V at inside-delta circuit at 40 °C rated value at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 0°C rated value at 500 V at 0°C rated value at 500 V at 0°C rated value at 500 V at 10°C rated value at 500 V at 10°C rated value at 500 V at 0°C rated value box www. at 500 V at 10°C rated value at 500 V at 10°C rated value box www. box wwwwwww. box wwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwww		204 A				
• at inside-delta circuit rated value200 600 Vrelative negative tolerance of the operating voltage-15 %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 %operating power for 3-phase motors10 %• at 230 V at 40 °C rated value37 kW• at 230 V at 40 °C rated value75 kW• at 400 V at inside-delta circuit at 40 °C rated value132 kW• at 400 V at inside-delta circuit at 40 °C rated value132 kW• at 500 V at 40 °C rated value90 kW• at 500 V at inside-delta circuit at 40 °C rated value160 kW						
relative negative tolerance of the operating voltage-15 %relative positive tolerance of the operating voltage10 %relative negative 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 %relative positive tolerance of the operating voltage at inside-delta circuit10 %operating power for 3-phase motors10 %• at 230 V at 40 °C rated value37 kW• at 230 V at inside-delta circuit at 40 °C rated value75 kW• at 400 V at 40 °C rated value75 kW• at 400 V at inside-delta circuit at 40 °C rated value132 kW• at 500 V at 40 °C rated value90 kW• at 500 V at inside-delta circuit at 40 °C rated value160 kW						
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relative negative tolerance of the operating voltage at inside-delta circuit -15 % relative positive tolerance of the operating voltage at inside-delta circuit 10 % operating power for 3-phase motors 10 % • at 230 V at 40 °C rated value 37 kW • at 230 V at 40 °C rated value 75 kW • at 400 V at 40 °C rated value 75 kW • at 400 V at 0 °C rated value 132 kW • at 500 V at 40 °C rated value 132 kW • at 500 V at inside-delta circuit at 40 °C rated value 160 kW						
inside-delta circuit10 %relative positive tolerance of the operating voltage at inside-delta circuit10 %operating power for 3-phase motors1• at 230 V at 40 °C rated value37 kW• at 230 V at inside-delta circuit at 40 °C rated value75 kW• at 400 V at 40 °C rated value75 kW• at 400 V at of C rated value132 kW• at 500 V at 40 °C rated value90 kW• at 500 V at inside-delta circuit at 40 °C rated value160 kW						
inside-delta circuitoperating power for 3-phase motors• at 230 V at 40 °C rated value37 kW• at 230 V at inside-delta circuit at 40 °C rated value75 kW• at 400 V at 40 °C rated value75 kW• at 400 V at of °C rated value132 kW• at 500 V at 40 °C rated value90 kW• at 500 V at inside-delta circuit at 40 °C rated value160 kW	inside-delta circuit					
• at 230 V at 40 °C rated value37 kW• at 230 V at inside-delta circuit at 40 °C rated value75 kW• at 400 V at 40 °C rated value75 kW• at 400 V at inside-delta circuit at 40 °C rated value132 kW• at 500 V at 40 °C rated value90 kW• at 500 V at inside-delta circuit at 40 °C rated value160 kW	inside-delta circuit	10 %				
• at 230 V at inside-delta circuit at 40 °C rated value75 kW• at 400 V at 40 °C rated value75 kW• at 400 V at inside-delta circuit at 40 °C rated value132 kW• at 500 V at 40 °C rated value90 kW• at 500 V at inside-delta circuit at 40 °C rated value160 kW	operating power for 3-phase motors					
• at 400 V at 40 °C rated value75 kW• at 400 V at inside-delta circuit at 40 °C rated value132 kW• at 500 V at 40 °C rated value90 kW• at 500 V at inside-delta circuit at 40 °C rated value160 kW	• at 230 V at 40 °C rated value	37 kW				
• at 400 V at inside-delta circuit at 40 °C rated value132 kW• at 500 V at 40 °C rated value90 kW• at 500 V at inside-delta circuit at 40 °C rated value160 kW	• at 230 V at inside-delta circuit at 40 °C rated value	75 kW				
at 500 V at 40 °C rated value 90 kW at 500 V at inside-delta circuit at 40 °C rated value 160 kW	• at 400 V at 40 °C rated value	75 kW				
at 500 V at inside-delta circuit at 40 °C rated value 160 kW	• at 400 V at inside-delta circuit at 40 °C rated value	132 kW				
	• at 500 V at 40 °C rated value	90 kW				
Operating frequency 1 rated value 50 Hz	• at 500 V at inside-delta circuit at 40 °C rated value	160 kW				
	Operating frequency 1 rated value	50 Hz				
Operating frequency 2 rated value 60 Hz	Operating frequency 2 rated value	60 Hz				

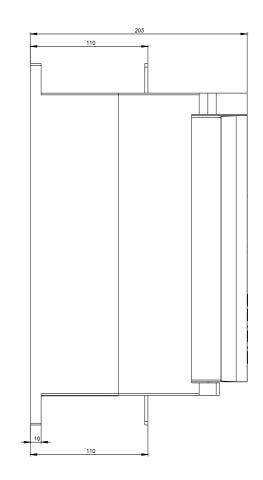
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
adjustable motor current	
 at rotary coding switch on switch position 1 	68 A
 at rotary coding switch on switch position 2 	73 A
 at rotary coding switch on switch position 3 	78 A
 at rotary coding switch on switch position 4 	83 A
 at rotary coding switch on switch position 5 	88 A
 at rotary coding switch on switch position 6 	93 A
 at rotary coding switch on switch position 7 	98 A
 at rotary coding switch on switch position 8 	103 A
 at rotary coding switch on switch position 9 	108 A
 at rotary coding switch on switch position 10 	113 A
 at rotary coding switch on switch position 11 	118 A
 at rotary coding switch on switch position 12 	123 A
 at rotary coding switch on switch position 13 	128 A
 at rotary coding switch on switch position 14 	133 A
 at rotary coding switch on switch position 15 	138 A
 at rotary coding switch on switch position 16 	143 A
• minimum	68 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	118 A
 for inside-delta circuit at rotary coding switch on switch position 2 	126 A
 for inside-delta circuit at rotary coding switch on switch position 3 	135 A
 for inside-delta circuit at rotary coding switch on switch position 4 	144 A
for inside-delta circuit at rotary coding switch on switch position 5	152 A
for inside-delta circuit at rotary coding switch on switch position 6 for inside delta circuit at rotary coding switch on switch	161 A 170 A
 for inside-delta circuit at rotary coding switch on switch position 7 for inside-delta circuit at rotary coding switch on switch 	178 A
 for inside-delta circuit at rotary coding switch on switch for inside-delta circuit at rotary coding switch on switch 	187 A
 for inside-delta circuit at rotary coding switch on switch 	196 A
 position 10 for inside-delta circuit at rotary coding switch on switch 	204 A
position 11for inside-delta circuit at rotary coding switch on switch	213 A
position 12for inside-delta circuit at rotary coding switch on switch	222 A
position 13for inside-delta circuit at rotary coding switch on switch	230 A
 position 14 for inside-delta circuit at rotary coding switch on switch 	239 A
 position 15 for inside-delta circuit at rotary coding switch on switch position 16 	248 A
at inside-delta circuit minimum	118 A
• at inside-deita circuit minimum minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	יס אין אטומנוייט נס סוומווטטן שכונמטוב וכ
at 40 °C after startup	55 W
• at 50 °C after startup	50 W
• at 60 °C after startup	47 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	2 127 W
• at 50 °C during startup	1 807 W
• at 60 °C during startup	1 605 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
The standard of the sound supply foldage	

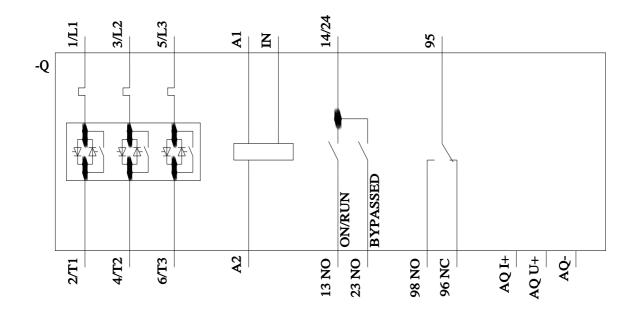
control supply voltage at AC	
• at 50 Hz rated value	24 V
• at 60 Hz rated value	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage 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 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	380 mA
inrush current by closing the bypass contacts maximum	7.6 A
inrush current peak at application of control supply voltage maximum	3.3 A
duration of inrush current peak at application of control supply voltage	12.1 ms
design of the overvoltage protection	Varistor
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply
Inputs/ Outputs	
Inputs/ Outputs number of digital inputs	1
	1 3
number of digital inputs	3 2
number of digital inputs number of digital outputs • not parameterizable digital output version	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO)
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs	3 2
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • at the side	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 5 mm
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • at the side weight without packaging	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • at the side weight without packaging Connections/ Terminals	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 5 mm
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • at the side weight without packaging Connections/ Terminals type of electrical connection	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 10 mm 10 mm 5 mm 6.6 kg
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 10 mm 10 mm 5 mm 6.6 kg busbar connection
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for control circuit	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg busbar connection screw-type terminals
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for control circuit • for control circuit	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 10 mm 10 mm 5 mm 6.6 kg busbar connection
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for control circuit width of connection bar maximum type of connectable conductor cross-sections	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 10 mm 0 mm 10 mm 5 mm 6.6 kg busbar connection screw-type terminals 25 mm
number of digital inputs number of digital outputs • not parameterizable digital output version number of analog outputs switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for control circuit • for control circuit	3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 1 3 A 1 A with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg busbar connection screw-type terminals

type of connectable conductor cross-sections			
 for control circuit solid 	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)		
 for control circuit finely stranded with core end processing 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)		
 for AWG cables for control circuit solid 	1x (20 12), 2x (20 14)		
wire length			
 between soft starter and motor maximum 	800 m		
 at the digital inputs at AC maximum 	100 m		
 at the digital inputs at DC maximum 	1 000 m		
tightening torque			
 for main contacts with screw-type terminals 	10 14 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 	89 124 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 catalog		
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			
PROFINET standard	Yes		
EtherNet/IP	Yes		
Modbus RTU	Yes		
Modbus TCP	Yes		
• PROFIBUS	Yes		
UL/CSA ratings			
manufacturer's article number			
of circuit breaker			
 — usable for Standard Faults at 460/480 V according to UL 	Siemens type: 3VA52, max. 250 A; Iq = 10 kA		
- usable for High Faults at 460/480 V according to UL	Siemens type: 3VA52, max. 250 A; lq max = 65 kA		
— usable for Standard Faults at 460/480 V at inside- delta circuit according to UL	Siemens type: 3VA52, max. 250 A; lq = 10 kA		
 — usable for High Faults at 460/480 V at inside-delta circuit according to UL 	Siemens type: 3VA52, max. 250 A; lq max = 65 kA		
— usable for Standard Faults at 575/600 V according to UL	Siemens type: 3VA52, max. 250 A; lq = 10 kA		
 — usable for Standard Faults at 575/600 V at inside- delta circuit according to UL 	Siemens type: 3VA52, max. 250 A; Iq = 10 kA		
of the fuse			
— usable for Standard Faults up to 575/600 V according to UL	Type: Class RK5 / K5, max. 350 A; lq = 10 kA		
— usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 350 A; lq = 100 kA		
 — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 350 A; lq = 10 kA		
 — usable for High Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 350 A; Iq = 100 kA		
operating power [hp] for 3-phase motors			
• at 200/208 V at 50 °C rated value	40 hp		
• at 220/230 V at 50 °C rated value	40 hp		
• at 460/480 V at 50 °C rated value	100 hp		
	125 hp		
 at 575/600 V at 50 °C rated value at 200/208 V at inside-delta circuit at 50 °C rated value 			

• at 220/230 V at i	nside-delta circuit at 50	°C rated value	75 hp		
• at 460/480 V at i	nside-delta circuit at 50	°C rated value	150 hp		
● at 575/600 V at i	nside-delta circuit at 50	°C rated value	200 hp		
contact rating of auxiliary contacts according to UL		R300-B300			
afety related data					
protection class IP on	the front according to	DIEC 60529	IP00; IP20 with cover		
touch protection on th	ne front according to I	EC 60529	finger-safe, for vertical conta	act from the front with cover	
electromagnetic comp	oatibility		in accordance with IEC 609	47-4-2	
ertificates/ approvals					
General Product App	roval				EMC
(SP)		<u>Confirmation</u>		EHC	RCM
Declaration of Confor	rmity	Test Certificates	Marine / Shipping		
EG-Konf.	UK CA	<u>Type Test Certii</u> ates/Test Repo		BUREAU VERITAS	Lloyd's Register uis
Marine / Shipping	other				
PRS	<u>Confirmation</u>				
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