## SIEMENS

## Data sheet

product brand name



SIRIUS soft starter 200-480 V 143 A, 110-250 V AC spring-type terminals Thermistor input

3RW5235-2TC14



product category	Hybrid switching devices				
product designation	Soft starter				
product type designation	3RW52				
manufacturer's article number					
<ul> <li>of standard HMI module usable</li> </ul>	<u>3RW5980-0HS00</u>				
<ul> <li>of high feature HMI module usable</li> </ul>	<u>3RW5980-0HF00</u>				
<ul> <li>of communication module PROFINET standard usable</li> </ul>	<u>3RW5980-0CS00</u>				
<ul> <li>of communication module PROFIBUS usable</li> </ul>	<u>3RW5980-0CP00</u>				
<ul> <li>of communication module Modbus TCP usable</li> </ul>	<u>3RW5980-0CT00</u>				
<ul> <li>of communication module Modbus RTU usable</li> </ul>	<u>3RW5980-0CR00</u>				
<ul> <li>of communication module Ethernet/IP</li> </ul>	<u>3RW5980-0CE00</u>				
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3VA2220-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10				
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10				
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3244-6; Type of coordination 1, Iq = 65 kA				
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	3NA3244-6; Type of coordination 1, Iq = 65 kA				
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE1227-0; Type of coordination 2, Iq = 65 kA</u>				
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>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				
<ul> <li>is supported HMI-Standard</li> </ul>	Yes				
<ul> <li>is supported HMI-High Feature</li> </ul>	Yes				
product feature integrated bypass contact system	Yes				
number of controlled phases	3				
buffering time in the event of power failure					
•	100 ms				

SIRIUS

insulation voltage rated value	600 V				
degree of pollution	3, acc. to IEC 60947-4-2				
impulse voltage rated value	6 kV				
blocking voltage of the thyristor maximum	1 400 V				
service factor	_ 1				
surge voltage resistance rated value	6 kV				
maximum permissible voltage for protective separation					
between main and auxiliary circuit	600 V				
shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting				
utilization category according to IEC 60947-4-2	AC 53a				
reference code according to IEC 81346-2	Q				
Substance Prohibitance (Date)	02/15/2018				
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7 1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) covering any of its individual anti- and syn-isomers or any combination thereof Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Dodecamethylcyclohexasiloxane (D6) - 540-97-6				
product function					
<ul> <li>ramp-up (soft starting)</li> </ul>	Yes				
<ul> <li>ramp-down (soft stop)</li> </ul>	Yes				
Soft Torque	Yes				
<ul> <li>adjustable current limitation</li> </ul>	Yes				
<ul> <li>pump ramp down</li> </ul>	Yes				
<ul> <li>intrinsic device protection</li> </ul>	Yes				
<ul> <li>motor overload protection</li> </ul>	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)				
<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick				
<ul> <li>inside-delta circuit</li> </ul>	Yes				
auto-RESET	Yes				
manual RESET	Yes				
remote reset	Yes; By turning off the control supply voltage				
<ul> <li>communication function</li> </ul>	Yes				
operating measured value display	Yes; Only in conjunction with special accessories				
• 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				
firmware update	Yes				
removable terminal for control circuit	Yes				
torque control	No				
analog output	No				
Power Electronics					
operational current	440.4				
• at 40 °C rated value	143 A				
• at 50 °C rated value	128 A				
at 60 °C rated value	118 A				
operational current at inside-delta circuit	249.4				
• at 40 °C rated value	248 A				
• at 50 °C rated value	222 A				
at 60 °C rated value	204 A				
operating voltage	200 490 \/				
rated value     at inside delta circuit rated value	200 480 V				
at inside-delta circuit rated value	200 480 V				
relative negative tolerance of the operating voltage	-15 %				
relative positive tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit	10 % 15 %				
relative positive tolerance of the operating voltage at inside-delta circuit	10 %				

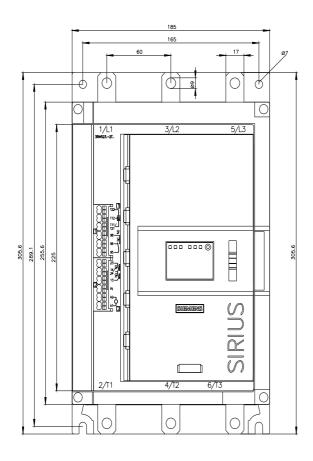
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operating power for 3-phase motors	
<ul> <li>at 230 V at 40 °C rated value</li> </ul>	37 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	75 kW
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	75 kW
<ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>	132 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	
<ul> <li>at rotary coding switch on switch position 1</li> </ul>	68 A
<ul> <li>at rotary coding switch on switch position 2</li> </ul>	73 A
<ul> <li>at rotary coding switch on switch position 3</li> </ul>	78 A
<ul> <li>at rotary coding switch on switch position 4</li> </ul>	83 A
<ul> <li>at rotary coding switch on switch position 5</li> </ul>	88 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	93 A
<ul> <li>at rotary coding switch on switch position 7</li> </ul>	98 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	103 A
<ul> <li>at rotary coding switch on switch position 9</li> </ul>	108 A
<ul> <li>at rotary coding switch on switch position 10</li> </ul>	113 A
<ul> <li>at rotary coding switch on switch position 11</li> </ul>	118 A
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	123 A
<ul> <li>at rotary coding switch on switch position 13</li> </ul>	128 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	133 A
<ul> <li>at rotary coding switch on switch position 15</li> </ul>	138 A
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	143 A
• minimum	68 A
adjustable motor current	
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> </ul>	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
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> </ul>	161 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> </ul>	170 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 8</li> <li>for inside delta circuit at rotary coding switch on switch</li> </ul>	178 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 9</li> <li>for inside delta circuit at rotary coding switch on switch</li> </ul>	187 A 196 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>	196 A 204 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 11</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>	
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 12</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>	213 A 222 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 13</li> <li>for inside delta circuit at rotary coding switch on switch</li> </ul>	222 A 230 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 14</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>	230 A 239 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch</li> <li>for inside-delta circuit at rotary coding switch on switch</li> </ul>	239 A 248 A
<ul> <li>or inside-delta circuit at rotary coung switch on switch position 16</li> <li>at inside-delta circuit minimum</li> </ul>	246 A 118 A
minimum load [%]	
	15 %. Relative to smallest settable le
nower loss [W] for rated value of the current at AC	15 %; Relative to smallest settable le
<ul> <li>power loss [W] for rated value of the current at AC</li> <li>at 40 °C after startup</li> </ul>	
<ul> <li>power loss [W] for rated value of the current at AC</li> <li>at 40 °C after startup</li> <li>at 50 °C after startup</li> </ul>	15 %; Relative to smallest settable le 55 W 50 W

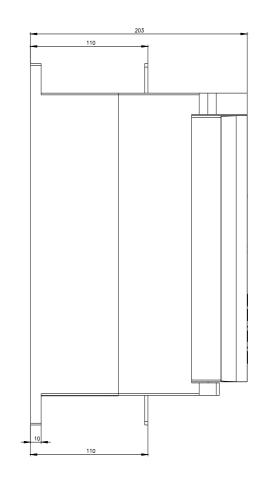
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power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	2 127 W
• at 50 °C during startup	1 807 W
• at 60 °C during startup	1 605 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz	110 250 V
• at 60 Hz	110 250 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage frequency	-10 %
relative positive tolerance of the control supply voltage frequency	10 %
control supply current in standby mode rated value	30 mA
holding current in bypass operation rated value	75 mA
inrush current by closing the bypass contacts maximum	2.5 A
inrush current peak at application of control supply voltage maximum	12.2 A
duration of inrush current peak at application of control supply voltage	2.2 ms
design of the overvoltage protection	Varistor
design of short-circuit protection for control circuit	4 A gG fuse (lcu=1 kA), 6 A quick-acting fuse (lcu=1 kA), C1 miniature circuit breaker (lcu= 600 A), C6 miniature circuit breaker (lcu= 300 A); Is not part of scope of supply
	scope of suppry
Inputs/ Outputs	
Inputs/ Outputs number of digital inputs	1
	1 3
number of digital inputs number of digital outputs • not parameterizable	1 3 2
number of digital inputs number of digital outputs • not parameterizable digital output version	1 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	1 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	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0
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	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 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	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0
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	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 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         Installation/ mounting/ dimensions         mounting position	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 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	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 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	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 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	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 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	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 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         depth         required spacing with side-by-side mounting	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 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
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	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 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
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	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 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	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 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
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	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 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	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 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	1         3         2         2 normally-open contacts (NO) / 1 changeover contact (CO)         0         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	1         3         2         2 normally-open contacts (NO) / 1 changeover contact (CO)         0         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	1         3         2         2 normally-open contacts (NO) / 1 changeover contact (CO)         0         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	1 3 2 2 normally-open contacts (NO) / 1 changeover contact (CO) 0 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
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	1         3         2         2 normally-open contacts (NO) / 1 changeover contact (CO)         0         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         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	1         3         2         2 normally-open contacts (NO) / 1 changeover contact (CO)         0         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         6.6 kg         busbar connection spring-loaded 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         • downwards         • at the side         weight without packaging         Connections/ Terminals         type of electrical connection         • for control circuit         width of connection bar maximum	1         3         2         2 normally-open contacts (NO) / 1 changeover contact (CO)         0         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         6.6 kg         busbar connection spring-loaded terminals

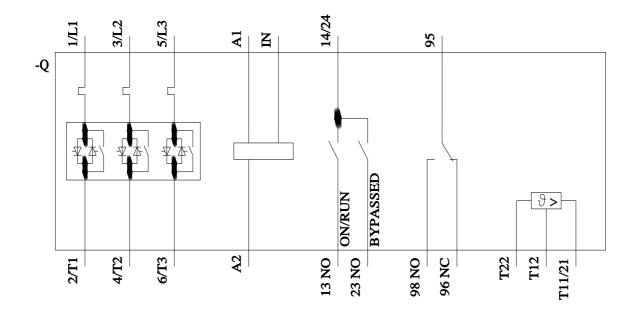
<ul> <li>with conductor cross-section = 2.5 mm<sup>2</sup> maximum</li> </ul>	250 m		
type of connectable conductor cross-sections			
for DIN cable lug for main contacts stranded	2x (16 95 mm²)		
for DIN cable lug for main contacts stranded	2x (15 93 mm <sup>2</sup> )		
type of connectable conductor cross-sections	2A (23 120 mm)		
for control circuit solid	2x (0.25 1.5 mm²)		
<ul> <li>for control circuit finely stranded with core end processing</li> </ul>	2x (0.25 1.5 mm <sup>2</sup> )		
for AWG cables for control circuit solid	2x (0.25 15 mm)		
<ul> <li>for AWG cables for control circuit solid</li> <li>for AWG cables for control circuit finely stranded with core end processing</li> </ul>	2x (24 16) 2x (24 16)		
wire length			
<ul> <li>between soft starter and motor maximum</li> </ul>	800 m		
<ul> <li>at the digital inputs at AC maximum</li> </ul>	100 m		
tightening torque			
<ul> <li>for main contacts with screw-type terminals</li> </ul>	10 14 N·m		
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m		
tightening torque [lbf·in]			
<ul> <li>for main contacts with screw-type terminals</li> </ul>	89 124 lbf-in		
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	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			
<ul> <li>during operation</li> </ul>	-25 +60 °C; Please observe derating at temperatures of 40 °C or above		
<ul> <li>during storage and transport</li> </ul>	-40 +80 °C		
environmental category			
<ul> <li>during operation according to IEC 60721</li> </ul>	$3 \rm K6$ (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 $$		
<ul> <li>during transport according to IEC 60721</li> </ul>	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
Environmental footprint			
	Siemens EcoTech		
Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference			
Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol	Siemens EcoTech		
Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported	Siemens EcoTech acc. to IEC 60947-4-2: Class A		
Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard	Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes		
Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP	Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes		
Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU	Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes Yes		
Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP	Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes		
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Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings	Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes		
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Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker usable for Standard Faults — at 460/480 V according to UL	Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Siemens type: 3VA52, max. 250 A; lq = 10 kA		
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Environmental footprint Siemens Eco Profile (SEP) EMC emitted interference Communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker usable for Standard Faults — at 460/480 V according to UL — 60/480 V according to UL — at 460/480 V at inside-delta circuit according to UL — at 460/480 V at inside-delta circuit according to UL — at 575/600 V according to UL — at 575/600 V at inside-delta circuit according to UL — at 575/600 V at inside-delta circuit according to UL — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to	Siemens EcoTech acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes		
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• at 460/480 V at 50 °C i	ated value		100 h	р		
• at 200/208 V at inside-	delta circuit at 50 °C	rated value	75 hp			
• at 220/230 V at inside-	delta circuit at 50 °C	rated value	75 hp			
<ul> <li>at 460/480 V at inside-</li> </ul>	• at 460/480 V at inside-delta circuit at 50 °C rated value 150			р		
contact rating of auxiliary c				-B300		
Electrical Safety						
				IP20 with cover		
-	protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529				t from the front with cover	
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General Product Approval						
(SP)	UK CA	Confirmatio	<u>on</u>	C E EG-Konf.		
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Further information						
Information on the packagin https://support.industry.sieme Information- and Download https://www.siemens.com/ic1 Industry Mall (Online orderin https://mall.industry.siemens. Cax online generator	ns.com/cs/ww/en/vie center (Catalogs, B 0 ing system) com/mall/en/en/Cata	Brochures,)			14	
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Image database (product in http://www.automation.sieme					ns, EPLAN macros,)	
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Characteristic: Installation	altitude					
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Simulation Tool for Soft Sta	arters (STS)					

Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917







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