## SIEMENS

## Data sheet

## 3RW5245-2AC14



SIRIUS soft starter 200-480 V 315 A, 110-250 V AC spring-type terminals Analog output

and the formed as a set			
product brand name	SIRIUS		
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>	3VA2440-7MN32-0AA0; Type of coordination 1, lq = 65 kA, CLASS 10		
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2440-7MN32-0AA0; Type of coordination 1, lq = 65 kA, CLASS 10		
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2580-6HN32-0AA0: Type of coordination 1. Iq = 65 kA. CLASS 10		
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3VA2580-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10		
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	2x3NA3365-6; Type of coordination 1, Iq = 65 kA		
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	2x3NA3365-6; 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>3NE1334-2; 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>3NE3336; Type of coordination 2, Iq = 65 kA</u>		
eneral technical data			
starting voltage [%]	30 100 %		
stopping voltage [%]	50 50 %		
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 is supported			
HMI-Standard	Yes		
HMI-High Feature	Yes		
product feature integrated bypass contact system	Yes		

number of controlled phases	3			
trip class				
buffering time in the event of power failure	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2			
for main current circuit	100 ms			
for control circuit				
	100 ms			
insulation voltage rated value	600 V 3, acc. to IEC 60947-4-2			
degree of pollution	6 kV			
impulse voltage rated value	-			
blocking voltage of the thyristor maximum	1 600 V			
service factor	_ 1			
surge voltage resistance rated value	6 kV			
maximum permissible voltage for safe isolation				
between main and auxiliary circuit				
shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting			
vibration resistance	15 mm to 6 Hz; 2g to 500 Hz			
utilization category acc. to IEC 60947-4-2	AC 53a			
reference code acc. to IEC 81346-2	Q			
Substance Prohibitance (Date)	15.02.2018 00:00:00			
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; Electronic motor overload protection			
<ul> <li>evaluation of thermistor motor protection</li> </ul>	No			
• inside-delta circuit	Yes			
auto-RESET	Yes			
manual RESET	Yes			
remote reset	Yes; By turning off the control supply voltage			
<ul> <li>communication function</li> </ul>	Yes			
<ul> <li>operating measured value display</li> </ul>	Yes; Only in conjunction with special accessories			
• error logbook	Yes; Only in conjunction with special accessories			
<ul> <li>via software parameterizable</li> </ul>	No			
<ul> <li>via software configurable</li> </ul>	Yes			
PROFlenergy	Yes; in connection with the PROFINET Standard communication module			
<ul> <li>firmware update</li> </ul>	Yes			
<ul> <li>removable terminal for control circuit</li> </ul>	Yes			
torque control	No			
<ul> <li>analog output</li> </ul>	Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)			
Power Electronics				
operational current				
• at 40 °C rated value	315 A			
• at 50 °C rated value	279 A			
• at 60 °C rated value	255 A			
operational current at inside-delta circuit				
• at 40 °C rated value	546 A			
• at 50 °C rated value	483 A			
• at 60 °C rated value	442 A			
operating voltage				
rated value	200 480 V			
<ul> <li>at inside-delta circuit rated value</li> </ul>	200 480 V			
relative negative tolerance of the operating voltage	-15 %			
relative positive tolerance of the operating voltage	10 %			
relative negative tolerance of the operating voltage at	-15 %			
inside-delta circuit				

relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
<ul> <li>at 230 V at 40 °C rated value</li> </ul>	90 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	160 kW
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	160 kW
<ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>	315 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>	135 A
<ul> <li>at rotary coding switch on switch position 2</li> </ul>	147 A
<ul> <li>at rotary coding switch on switch position 3</li> </ul>	159 A
<ul> <li>at rotary coding switch on switch position 4</li> </ul>	171 A
<ul> <li>at rotary coding switch on switch position 5</li> </ul>	183 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	195 A
<ul> <li>at rotary coding switch on switch position 7</li> </ul>	207 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	219 A
<ul> <li>at rotary coding switch on switch position 9</li> </ul>	231 A
<ul> <li>at rotary coding switch on switch position 10</li> </ul>	243 A
<ul> <li>at rotary coding switch on switch position 11</li> </ul>	255 A
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	267 A
<ul> <li>at rotary coding switch on switch position 13</li> </ul>	279 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	291 A
<ul> <li>at rotary coding switch on switch position 15</li> </ul>	303 A
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	315 A
• minimum	135 A
adjustable motor current	
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> </ul>	234 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> </ul>	255 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 3</li> </ul>	275 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> </ul>	296 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> </ul>	317 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> </ul>	338 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> </ul>	359 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 8</li> </ul>	379 A
• for inside-delta circuit at rotary coding switch on switch position 9	400 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> </ul>	421 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</li> </ul>	442 A
<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</li> </ul>	462 A 483 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</li> </ul>	483 A 504 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</li> </ul>	525 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 15</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	546 A
switch position 16	

<ul> <li>at inside-delta circuit minimum</li> </ul>	234 A			
	15 %: Relative to smallest settable le			
minimum load [%] power loss [W] for rated value of the current at AC				
• at 40 °C after startup	107 W			
• at 50 °C after startup	96 W			
	89 W			
• at 60 °C after startup	89 W			
power loss [W] at AC at current limitation 350 %	E 250 W			
at 40 °C during startup	5 350 W			
at 50 °C during startup	4 471 W			
• at 60 °C during startup	3 934 W			
Control circuit/ Control				
type of voltage of the control supply voltage	AC			
control supply voltage at AC	110 050 1/			
• 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	100 mA			
locked-rotor current at close of bypass contact	2.2 A			
maximum				
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 (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			
nputs/ Outputs				
number of digital inputs	1			
number of inputs for thermistor connection	0			
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			
nstallation/ mounting/ dimensions				
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back			
fastening method				
height	393 mm			
width	210 mm			
depth	203 mm			
required spacing with side-by-side mounting				
• forwards	10 mm			
backwards	0 mm			
• upwards	100 mm			
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  nstallation/ mounting/ dimensions  mounting position  fastening method height vidth depth required spacing with side-by-side mounting     forwards     backwards	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 393 mm 210 mm 203 mm 10 mm 0 mm			

ad the skip     add the skip     ad	downwards	75 mm			
weight without packaging         9.9 kg           Connections/Terminals         type of electrical connection           • for main current circuit         sping-loaded terminals           • for DN cable log for main contacts first anded         2x (50240 mm <sup>3</sup> )           • for DN cable log for main contacts first anded         2x (50240 mm <sup>3</sup> )           • for DN cable log for main contacts first anded         2x (50240 mm <sup>3</sup> )           • for control circuit finally stranded with core and processing         2x (2215 mm <sup>3</sup> )           • for control circuit finally stranded with core and processing         2x (2416)           • at AWG cables for control circuit finally stranded with core and processing         2x (2416)           • at AWG cables for control circuit finally stranded with core and processing         2x (2416)           • at AWG cables for control circuit south screw-type terminals         424 N m           • for main contacts with screw-type terminals         1424 N m           • for main contacts with screw-type terminals         5.000 m; Dentaing as of 1000 m, see catalog           • mainter and maport        20 Jbr/in           • during storage and control contacts with screw-type terminals        20 Jbr/in           • for main contacts with screw-type terminals        20 Jbr/in           • for main contacts with screw-type terminals        20 Jbr/in					
connections/forminals           type of electrical connection           i for main current circuit           i for control circuit           width of connection ber maximum           45 min           type of connectable conductor cross-sections           i for DN cable lug for main contacts finely stranded           type of connectable conductor cross-sections           i for Control circuit sold           i for control circuit finely stranded with ocre end processing           wire length           i at MKG cables for control circuit finely stranded with or end processing           wire length           i at MKG cables for control circuit finely stranded with or end processing           wire length           i for main contracts with screw-type terminals           i for auxilary and control contacts with screw-type terminals           i for auxilary and control contacts with screw-type terminals           i for auxilary and control contacts with screw-type terminals           i for auxilary and control contacts with screw-type terminals           i for auxilary and control contacts with screw-type terminals           i for auxilary and control contacts with screw-type terminals           i for auxilary and control c					
Type of electrical connection         busbar connection           • for main current circuit         busbar connection           • for othic circuit         spring-badded terminals           • for DIN cable lug for main contacts stranded         2x (50240 mm²)           • for DIN cable lug for main contacts stranded         2x (60240 mm²)           • for control circuit solid         2x (6215 mm²)           • for control circuit solid         2x (2416)           • at AWG cables for control circuit solid         2x (2416)           • at AWG cables for control circuit solid         2x (2416)           • at the digital inputs at AC maximum         800 m           • at the digital inputs at AC maximum         800 m           • at the digital inputs at AC maximum         100 m           • for mains contacts with screw-type terminals         14 24 N m           • for mains         124 210 lbf in           • for mains and control contacts with screw-type terminals         124 20 lbf in           • for mains contacts with screw-type terminals         124 210 lbf in           • for main contracts with screw-type terminals         124 210 lbf in           • for main contracts with screw-type terminals         124 210 lbf in           • for main contracts with screw-type terminals         124 210 lbf in <tr< td=""><td></td><td>a.a kg</td></tr<>		a.a kg			
A for main current clouid     budsar connection     soring-loaded terminals     synig-loaded terminals     synig-loaded terminals     for DIX connection bar maximum     45 mm     fype of connectable conductor cross-sections     for DIX cable lug for main contacts stranded     2x (0240 mm²)     2x (0240 mm²)     2x (0.251.5 m					
• for control circuit         spring-loaded terminals           width of connectable conductor cross-sections         45 mm           • for DIN cable lig for main contacts firsh yes and chable light of main contacts firsh yes and the core end processing         2x (0.2.515 mm <sup>2</sup> )           • at AWG cables for control circuit solid         2x (0.2.515 mm <sup>2</sup> )         2x (0.2.515 mm <sup>2</sup> )           • at AWG cables for control circuit solid         2x (0.2.515 mm <sup>2</sup> )         2x (2.416)           • at AWG cables for control circuit solid         2x (2.416)         2x (2.416)           • or any fing-loaded terminals         00 m         2x (2.416)           • or any fing-loaded terminals         00 m         2x (2.416)           • for any fing-loaded terminals         100 m         100 m           • for any fing-loaded terminals         100 m         100 m           • for any fing-loaded terminals         124210 lbf:ln         124210 lbf:ln           • for any fing-paration sec. to lice conzet         5 000 m; Derating as of 1000 m, see catalog           ambient conditions         5 000 m; Derating as of 1000 m, see catalog           ambient conditions         -40 40 "C           • during s		husher connection			
width of connection bar maximum     45 mm       type of connectable upf or main contacts stranded     2x (50 240 mm <sup>2</sup> )       v for DN cable up for main contacts stranded     2x (70 240 mm <sup>2</sup> )       type of connectable conductor cross-sections     2x (70 240 mm <sup>2</sup> )       v for control circuit finely stranded with core end processing     2x (0.25 15 mm <sup>2</sup> )       et a AVK cables for control circuit finely stranded with core end processing     2x (24 16)       et a two cables for control circuit finely stranded with core end processing     2x (24 16)       wire length     800 m     14 24 N m       • for main contacts with screw-type terminals     14 24 N m       • for main contacts with screw-type terminals     14 24 N m       • for main contacts with screw-type terminals     124 210 Ibf in       • for main contacts with screw-type terminals     5 000 m; Derating as of 1000 m, see catalog       installation altitude at height above sea level maximum     5 000 m; Derating as of 1000 m, see catalog       amblent temperature     -26 +60 °C; Please observe derating at temperatures of 40 °C or above       • during operation ac. to IEC 60721     2KG (no lee formation, only occasional condensation), 3C3 (no satt mist), 3S2 (sand must not get inde the devices), MA       • during storage acc. to IEC 60721     2KG (no lee formation, only occasional condensation), 3C3 (no satt mist), SS2 (sand must not get inde the devices), MA       • during storage acc. to IEC 60721 </td <td></td> <td></td>					
type of connectable conductor cross-sections       2x (50 240 mm²)         for DN cable lig of main contacts finely stranded       2x (70 240 mm²)         type of connectable conductor cross-sections       2x (0.25 1.5 mm²)         for control circuit finely stranded with core end processing       2x (0.25 1.5 mm²)         e at AWG cables for control circuit finely stranded with core end processing       2x (0.25 1.5 mm²)         e at AWG cables for control circuit finely stranded with core end processing       2x (24 16)         e at the digital inputs at AC maximum       800 m         e the digital inputs at AC maximum       800 m         e the digital normal control contacts with screw-type terminals       6 or auxiliary and control contacts with screw-type terminals         e for auxiliary and control contacts with screw-type terminals       124 210 lbfin         e for auxiliary and control contacts with screw-type terminals       5 000 m; Derating as of 1000 m, see catalog         amblent conditions       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         e during operation       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         e during storage and transport       -40 +80 °C         endvironmetal catagory       -40 wing dorage acc. to IEC 60721         eduring storage acc. to IEC 60721       26 (Consultonedation), 76 (Consal teration), 76 (Consal teration),					
a for DN cable lug for main contacts finely stranded       2x (60 240 mm²)         i for DN cable lug for main contacts finely stranded       2x (70 240 mm²)         i for control circuit finely stranded with core and processing       2x (24 16)         i at AWG cables for control circuit finely stranded with core and processing       2x (24 16)         i at AWG cables for control circuit finely stranded with core and processing       2x (24 16)         i at AWG cables for control circuit finely stranded with core and processing       2x (24 16)         i at AWG cables for control circuit finely stranded with core and processing       2x (24 16)         i at AWG cables for control circuit finely stranded with core and processing       2x (24 16)         i at the digital inputs at AC maximum       800 m         i at the digital inputs at AC maximum       100 m         i for rain contacts with screw-type terminals       14 24 N·m         i for rain control circuit finely stranded with core end processing       12 12 0 ibf-in         i for auxiliary and control contacts with screw-type terminals       12 12 0 ibf-in         i for auxiliary and control contacts with screw-type terminals       5 000 m. Derating as of 1000 m, see catalog         ambient temperature       2 160 °CC         e during operation       2 160 °CC         e during storage acc. to IEC 60721       2K (6		45 mm			
• for DIN cable log for main contracts finely stranded       2x (70240 mm <sup>2</sup> )         type of connectable conductor cross-sections       • (a control circuit solid       2x (0.2515 mm <sup>2</sup> )         • for control circuit finely stranded with core end processing       • (a Control circuit finely stranded with core end processing)       2x (0.2515 mm <sup>2</sup> )         • at AWG cables for control circuit finely stranded with core end processing       0x (2416)       2x (2416)         • et at the digital inputs at AC maximum       800 m       • at the digital inputs at AC maximum       100 m         • for auxiliary and control contacts with screew-type terminals       1424 N m       0.812 N m         • for auxiliary and control contacts with screew-type terminals       124210 lbf in       7103 lbf in         • for auxiliary and control contacts with screew-type terminals       5.000 m; Derating as of 1000 m; see catalog         • during operation       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during storage and transport       -40 +80 °C         • during storage acc. to IEC 60721       3K6 (no loc formation, only occasional condensation), 3C3 (no salt misi), 3S2 (sand must not get into the devices), 3M0         • during storage acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m)         • during storage acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m)         • EMO emi		$2x(50 - 240 \text{ mm}^2)$			
Type of connectable conductor cross-sections <ul> <li>i for control circuit solid</li> <li>i for control circuit solid</li> <li>i for control circuit solid</li> <li>at AWG cables for control circuit solid</li> <li>at AWG cables for control circuit finely stranded with core end processing</li> <li>at AWG cables for control circuit finely stranded with core end processing</li> <li>at the digital inputs at AC maximum</li> <li>between soft starter and motor maximum</li> <li>at the digital inputs at AC maximum</li> <li>between soft starter and motor maximum</li> <li>at the digital inputs at AC maximum</li> <li>tor main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> </ul> <li>tightening torque (bf-in)</li> <li>if or auxiliary and control contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type</li> <li>installation altitude at height above sea level maximum</li> <li>during storage and transport</li> <ul> <li>during storage and transport</li> <li>during storage acc. to IEC 60721</li> </ul> <li>during storage acc. to IEC 60721</li> <ul> <li>Ves</li> <li>Modobus RTU</li> <li>Ves</li> <li>Modobus RTU</li> <li>ves</li> <li>Ves</li></ul>	-	· · ·			
• for control circuit selid     • for control circuit finely stranded with core end processing     • at AVVC cables for control circuit finely stranded with core end processing     • at AVVC cables for control circuit finely stranded with core end processing     • at AVVC cables for control circuit finely stranded with core end processing     • between soft starter and motor maximum     • tor main contacts with screw-type terminals     • for maxiliary and control contacts with screw-type     terminals     • for auxiliary and control contacts with screw-type     terminals     • for auxiliary and control contacts with screw-type     terminals     • for auxiliary and control contacts with screw-type     terminals     • for auxiliary and control contacts with screw-type     terminals     • for auxiliary and control contacts with screw-type     • during operation     • during operation     • during storage and transport     • during storage and transport     • during storage acc. to IEC 60721     • during operation acc. to IEC 60721     • during storage acc. to IEC 60721     • during storadard Faults at 460/480 V according					
		2x (0.25 1.5 mm²)			
processing       2x (24 16)         ext AWG cables for control circuit finely stranded with core and processing       2x (24 16)         wire length       between soft starter and motor maximum       800 m         ext det diptal inputs at AC maximum       100 m         tightening torque       100 m         • for auxiliary and control contacts with screw-type terminals       14 24 N-m         • for auxiliary and control contacts with screw-type terminals       124 210 lbf in         • for auxiliary and control contacts with screw-type terminals       124 210 lbf in         • for auxiliary and control contacts with screw-type terminals       5000 m; Derating as of 1000 m, see catalog         ambient conditions       5000 m; Derating as of 1000 m, see catalog         installation altitude at height above sea level maximum       5000 m; Derating as of 1000 m, see catalog         • during operation       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during operation       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during operation acc. to IEC 60721       3K6 (no lee formation, only occasional condensation), 3C3 (no salt mists) 522 (sand must not get linside the devices), 3M6         • during transport acc. to IEC 60721       2K2, 2C1, 2C1, 2X1, 2K2 (max, Fail height 0.3 m)         • during transport acc. to IEC 60721       2K2, 2C1, 2K1, 2K1, 2K2 (max, Fai					
core and processing     B00 m       • between soft starter and motor maximum     800 m       • at the digital inputs at AC maximum     100 m       • for main contacts with screw-type terminals     14 24 N·m       • for auxiliary and control contacts with screw-type terminals     14 24 N·m       • for auxiliary and control contacts with screw-type terminals     14 24 N·m       • for auxiliary and control contacts with screw-type terminals     14 210 lbf in       • for auxiliary and control contacts with screw-type terminals     7 10.3 lbf in       • for main contacts with screw-type terminals     5 000 m; Derating as of 1000 m, see catalog       • auxiliary and control contacts with screw-type terminals     7 10.3 lbf in       • for main contact with screw-type terminals     5 000 m; Derating as of 1000 m, see catalog       • during storage act to IEC 60721     3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6       • during transport acc. to IEC 60721     3K6 (only occasional condensation), 1C2 (no salt must), 1S2 (sand must not get into the devices), 3M6       • during transport acc. to IEC 60721     2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)       • during transport acc. to IEC 60721     2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)       • during transport acc. to IEC 60721     2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)       • Modbus RTU     Yes       • Modobus TCP     Yes	<ul> <li>at AWG cables for control circuit solid</li> </ul>	2x (24 16)			
core and processing     B00 m       • between soft starter and motor maximum     800 m       • at the digital inputs at AC maximum     100 m       • for main contacts with screw-type terminals     14 24 N·m       • for auxiliary and control contacts with screw-type terminals     14 24 N·m       • for auxiliary and control contacts with screw-type terminals     14 24 N·m       • for auxiliary and control contacts with screw-type terminals     14 210 lbf in       • for auxiliary and control contacts with screw-type terminals     7 10.3 lbf in       • for main contacts with screw-type terminals     5 000 m; Derating as of 1000 m, see catalog       • auxiliary and control contacts with screw-type terminals     7 10.3 lbf in       • for main contact with screw-type terminals     5 000 m; Derating as of 1000 m, see catalog       • during storage act to IEC 60721     3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6       • during transport acc. to IEC 60721     3K6 (only occasional condensation), 1C2 (no salt must), 1S2 (sand must not get into the devices), 3M6       • during transport acc. to IEC 60721     2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)       • during transport acc. to IEC 60721     2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)       • during transport acc. to IEC 60721     2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)       • Modbus RTU     Yes       • Modobus TCP     Yes	<ul> <li>at AWG cables for control circuit finely stranded with</li> </ul>				
between soft starter and motor maximum     eit the digital inputs at AC maximum     100 m      10 m      11 4 24 N m      0.8 12 N m      11 4 210 lbf-in      7 10.3 lbf-in					
• at the digital inputs at AC maximum     100 m       tightening torque     1424 N·m       • for maxiliary and control contacts with screw-type terminals     0.812 N·m       • for auxiliary and control contacts with screw-type terminals     124210 lbf-in       • for main contacts with screw-type terminals     124210 lbf-in       • for auxiliary and control contacts with screw-type terminals     124210 lbf-in       /Ambient conditions     5 000 m; Derating as of 1000 m, see catalog       installation altitude at height above sea level maximum     5 000 m; Derating as of 1000 m, see catalog       ambient temporature     -25+60 °C; Please observe derating at temperatures of 40 °C or above       • during operation     -25+60 °C;       • during storage and transport     -40+80 °C       • during storage c. to IEC 60721     3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6       • during transport acc. to IEC 60721     2K2, 2C1, 2S1, 2M2 (max. fail height 0.3 m)       acc to IEC 60721     2K2, 2C1, 2S1, 2M2 (max. fail height 0.3 m)       • Ether Net/IP     Yes       • EtherNet/IP     Yes       • Modbus TCP     Yes       • Derouting to Standard Faults at 460/480 V according to UL     Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 KA       • usable for High Faults at 460/480 V at inside-dela circuit according to UL     Siemens type:	wire length				
tightening torque <ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type</li> <li>terminals.</li> </ul> 14 24 N·m             0.8 1.2 N·m            tightening torque [lbf-in] <ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type             <li>terminals.</li> </li></ul> Ambient conditions <ul> <li>installation altitude at height above sea level maximum</li> <li>during storage and transport</li> <li>during storage and transport</li> <li>during storage acc. to IEC 60721</li> <li>during transport acc.</li> <li>terminals</li> <li>etroic to module is supported</li> <li>etroic to IEC 60721</li> <li>during transport acc.</li> <li>tero transport acc.</li> <li>terminals transport acc.<td><ul> <li>between soft starter and motor maximum</li> </ul></td><td>800 m</td></li></ul>	<ul> <li>between soft starter and motor maximum</li> </ul>	800 m			
• for main contacts with screw-type terminals         14 24 N·m           • for auxiliary and control contacts with screw-type terminals         0.8 1.2 N·m           tightening torque [lbf·in]         • for auxiliary and control contacts with screw-type terminals           • for auxiliary and control contacts with screw-type terminals         124 210 lbf in           Anbient conditions         5 000 m; Derating as of 1000 m, see catalog           installation altitude at height above sea level maximum         5 000 m; Derating as of 1000 m, see catalog           ambient temperature         • during operation           • during operation         -25 +60 °C; Please observe derating at temperatures of 40 °C or above           • during operation acc. to IEC 60721         3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6           • during transport acc. to IEC 60721         3K6 (no ice formation, only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4           • during transport acc. to IEC 60721         2K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m)           • during transport acc. to IEC 60721         2K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m)           • during transport acc. to IEC 60721         2K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m)           • during transport acc. to IEC 60721         2K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m)           • ULCSA traines         Sie	<ul> <li>at the digital inputs at AC maximum</li> </ul>	100 m			
	tightening torque				
terminals       104         tightening torque [lbf-in]       • for main contacts with screw-type terminals         • for auxiliary and control contacts with screw-type terminals       124 210 lbf-in         Ambient conditions       7 10.3 lbf-in         installation altitude at height above sea level maximum       5 000 m; Derating as of 1000 m, see catalog         ambient temperature       • during operation         • during storage and transport       -40 +80 °C         environmental category       • during storage acc. to IEC 60721         • during storage acc. to IEC 60721       3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get ino the devices), 3M6         • during transport acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)         • during transport acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)         • during transport acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)         • Modbus TCP       Yes         • Modbus TCP       Yes         • PROFIBUS       Yes         ULCSA ratings       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA         • usable for High Faults at 460/480 V according to UL.       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 KA         • usable for Standard Faults at 460/480 V according to UL.       Siemens ty	<ul> <li>for main contacts with screw-type terminals</li> </ul>	14 24 N·m			
tightening torque [lbf-in] <ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary and control contacts with screw-type terminals</li> </ul> 124 210 lbf-in           Ambient conditions         7 10.3 lbf-in           Installation allitude at height above sea level maximum         5 000 m; Derating as of 1000 m, see catalog           ambient temperature <ul> <li>during operation</li> <li>during operation acc. to IEC 60721</li> <li>during storage and transport</li> <li>during storage acc. to IEC 60721</li> <li>during transport acc. to IEC 60971</li> <li>during transport acc. to IEC 6072</li></ul>		0.8 1.2 N·m			
• for main contacts with screw-type terminals         124 210 lbf-in           • for auxiliary and control contacts with screw-type terminals         7 10.3 lbf-in           Ambient conditions         5 000 m; Derating as of 1000 m, see catalog           installation altitude at height above sea level maximum         5 000 m; Derating as of 1000 m, see catalog           ambient temperature         -25 +60 °C; Please observe derating at temperatures of 40 °C or above           • during storage and transport         -40 +80 °C           • during storage and transport         -40 +80 °C           • during storage acc. to IEC 60721         3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside the devices), 3M6           • during transport acc. to IEC 60721         2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)           • during transport acc. 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 module is supported         Yes           • PROFINET standard         Yes           • Modbus RTU         Yes           • Modbus RTU         Yes           • Modbus RTU         Yes           • DerofiBUS         Yes           • ULCSA ratings         Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 KA <t< td=""><td></td><td></td></t<>					
Installation altitude at height above sea level maximum       5 000 m; Derating as of 1000 m, see catalog         ambient temperature       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         - during operation       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         - during operation       -40 +80 °C         - during operation acc. to IEC 60721       3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6         - during transport acc. to IEC 60721       3K6 (no ice formation, only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4         - during transport acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)         - detring transport acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)         - detring transport acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)         - during transport acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)         - during transport acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)         - during transport acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)         - during transport acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)         - during transport acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)         - during transport acc. to IEC 60721					
Ambient conditions         installation altitude at height above sea level maximum         ambient temperature         • during operation         • during storage and transport         • during operation acc. to IEC 60721         • during storage acc. to IEC 60721         • during storage acc. to IEC 60721         • during storage acc. to IEC 60721         • during transport acc. to IEC 60721         • EMC emitted interference         • Demomunication / Protocol         communication module is supported         • PROFINET standard         • PROFIBUS         • during transport acce         • of circuit breaker         - usable for Standard Faults at 460/480 V according to UL         - us	5 51	7 10.3 lbf·in			
Installation altitude at height above sea level maximum       5 000 m; Derating as of 1000 m, see catalog         ambient temperature       • during operation         • during storage and transport       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during storage and transport       -40 +80 °C         environmental category       • during operation acc. to IEC 60721         • during storage acc. to IEC 60721       3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get inside the devices), 3M6         • during transport acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)         • during transport acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)         • during transport acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)         • Deromunication module is supported       • PROFINET standard         • PROFINET standard       Yes         • Modbus RTU       Yes         • Modbus TCP       Yes         • PROFIBUS       Yes         UL/CSA ratings       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA         • of circuit breaker       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA         • usable for High Faults at 460/480 V at inside-       Siemens type: 3VA54, max. 600 A; Iq = 18 kA					
ambient temperature       -25 +60 °C; Please observe derating at temperatures of 40 °C or above         • during storage and transport       -40 +80 °C         environmental category       • during operation acc. to IEC 60721         • during storage acc. to IEC 60721       3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6         • during transport acc. to IEC 60721       3K6 (no ice formation, only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4         • during transport acc. 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 Protocol         communication module is supported       Yes         • PROFINET standard       Yes         • Modbus RTU       Yes         • Modbus RTU       Yes         • DrOFIBUS       Yes         UL/CSA ratings       Yes         manufacturer's article number       of circuit breaker         - usable for Standard Faults at 460/480 V according to UL       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 KA         Siemens type: 3VA54, max. 600 A; Iq = 18 KA       Siemens type: 3VA54, max. 600 A; Iq = 18 KA         Siemens type: 3VA54, max. 600 A; Iq max = 65 KA       Siemens type: 3VA54, max. 600 A;		E 000 m: Dereting as of 1000 m and potalog			
<ul> <li>during operation</li> <li>-25 +60 °C; Please observe derating at temperatures of 40 °C or above</li> <li>during storage and transport</li> <li>-40 +80 °C</li> <li>environmental category</li> <li>during operation acc. to IEC 60721</li> <li>3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>during transport acc. to IEC 60721</li> <li>during transport acc. to IEC 60721</li> <li>EMC emitted interference</li> <li>acc. to IEC 60947-4-2: Class A</li> <li>Communication/ Protocol</li> <li>communication Protocol</li> <li>PROFINET standard</li> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>PROFIBUS</li> <li>Yes</li> <li>PROFIBUS</li> <li>Yes</li> <li>UL/CSA ratings</li> <li>manufacturer's article number</li> <li>of circuit breaker</li> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for Standard Faults at 460/480 V at inside-</li> <li>Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li> </ul>		5 000 m, Deraling as or 1000 m, see calalog			
• during storage and transport       -40 +80 °C         • nvironmental category       • during operation acc. 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 acc. to IEC 60721       3K6 (no ice formation, only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4         • during transport acc. to IEC 60721       1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4         • during transport acc. 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       acc. to IEC 60947-4-2: Class A         communication module is supported       Yes         • PROFINET standard       Yes         • Modbus RTU       Yes         • Modbus TCP       Yes         • PROFIBUS       Yes         UL/CSA ratings       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA         siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA       Siemens type: 3VA54, max. 600 A; lq = 18 kA         - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL       Siemens type: 3VA54, max. 600 A; lq = 18 kA         - usable for High Faults at 460/480 V at inside-delta circuit according to UL       Siemens type: 3VA54, max.	•	$25 \pm 60$ °C: Plages observe dereting at temperatures of 40 °C or			
environmental category         • during operation acc. to IEC 60721         • during storage acc. to IEC 60721         • during storage acc. to IEC 60721         • during transport acc. to IEC 60721         • PROFINET standard         • PROFINET standard         • PROFIBUS         • o circuit breaker					
environmental category <ul> <li>during operation acc. to IEC 60721</li> <li>during storage acc. to IEC 60721</li> <li>during storage acc. to IEC 60721</li> <li>tK6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4</li> </ul> <ul> <li>during transport acc. to IEC 60721</li> <li>tK6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4</li> <li>during transport acc. to IEC 60721</li> <li>2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)</li> </ul> EMC emitted interference <ul> <li>acc. to IEC 60947-4-2: Class A</li> <li>Communication module is supported</li> <li>PROFINET standard</li> <li>Yes</li> <li>Modbus RTU</li> <li>Yes</li> <li>Modbus TCP</li> <li>Yes</li> <li>PROFIBUS</li> <li>Yes</li> </ul> UL/CSA ratings         Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA           Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA           Siemens type: 3VA54, max. 600 A; Iq = 18 kA <li>inside-delta circuit according to UL</li> <li>usable for Standard Faults at 460/480 V at inside-</li> <li>Siemens type: 3VA54, max. 600 A; Iq max = 65 kA</li>	<ul> <li>during storage and transport</li> </ul>	-40 +80 °C			
mist), 3S2 (sand must not get into the devices), 3M6         • during storage acc. to IEC 60721         • during transport acc. to IEC 60721         • during transport acc. 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 Module is supported         • PROFINET standard         • EtherNet/IP         • Modbus RTU         • PROFIBUS         Yes         • Modbus TCP         • PROFIBUS         VL/CSA ratings         manufacturer's article number         • of circuit breaker         - usable for Standard Faults at 460/480 V according to UL         - usable for Standard Faults at 460/480 V at inside-felta circuit according to UL         - usable for Standard Faults at 460/480 V at inside-felta circuit according to UL         - usable for High Faults at 460/480 V at inside-felta circuit according to UL         - usable for High Faults at 460/480 V at inside-felta circuit according to UL         - usable for High Faults at 460/480 V at inside-felta circuit according to UL         - usable for High Faults at 460/480 V at inside-felta circuit according to UL         - usable for High Faults at 460/480 V at inside-felta circuit according to UL         - usable for High Faults at 460/480 V at inside-felta circuit according	environmental category				
mist), 3S2 (sand must not get into the devices), 3M6         • during storage acc. to IEC 60721         • during transport acc. to IEC 60721         • during transport acc. 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 Module is supported         • PROFINET standard         • EtherNet/IP         • Modbus RTU         • PROFIBUS         Yes         • Modbus TCP         • PROFIBUS         VL/CSA ratings         manufacturer's article number         • of circuit breaker         - usable for Standard Faults at 460/480 V according to UL         - usable for Standard Faults at 460/480 V at inside-felta circuit according to UL         - usable for Standard Faults at 460/480 V at inside-felta circuit according to UL         - usable for High Faults at 460/480 V at inside-felta circuit according to UL         - usable for High Faults at 460/480 V at inside-felta circuit according to UL         - usable for High Faults at 460/480 V at inside-felta circuit according to UL         - usable for High Faults at 460/480 V at inside-felta circuit according to UL         - usable for High Faults at 460/480 V at inside-felta circuit according to UL         - usable for High Faults at 460/480 V at inside-felta circuit according	<ul> <li>during operation acc. to IEC 60721</li> </ul>	3K6 (no ice formation, only occasional condensation), 3C3 (no salt			
not get inside the devices), 1M4         • during transport acc. 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       acc. to IEC 60947-4-2: Class A         Communication module is supported       PROFINET standard         • PROFINET standard       Yes         • Modbus RTU       Yes         • Modbus RTU       Yes         • Modbus TCP       Yes         • PROFIBUS       Yes         UL/CSA ratings       Yes         manufacturer's article number       of circuit breaker         - usable for Standard Faults at 460/480 V according to UL       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA         Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA       Siemens type: 3VA54, max. 600 A; Iq = 18 kA					
• during transport acc. to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) 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         • DROFIBUS       Yes         • Dul/CSA ratings       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA         - usable for Standard Faults at 460/480 V according to UL       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA         - usable for Standard Faults at 460/480 V at inside-       Siemens type: 3VA54, max. 600 A; Iq = 18 kA         - usable for Standard Faults at 460/480 V at inside-       Siemens type: 3VA54, max. 600 A; Iq max = 65 kA	<ul> <li>during storage acc. to IEC 60721</li> </ul>				
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       Yes         manufacturer's article number       of circuit breaker         - usable for Standard Faults at 460/480 V according to UL       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA         Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA       Siemens type: 3VA54, max. 600 A; Iq = 18 kA					
Communication Protocol         communication module is supported         • PROFINET standard         • PROFINET standard         • EtherNet/IP         • Modbus RTU         • Modbus RTU         • Modbus TCP         • PROFIBUS         • PROFIBUS         VL/CSA ratings         manufacturer's article number         • of circuit breaker         - usable for Standard Faults at 460/480 V according to UL         - usable for High Faults at 460/480 V according to UL         - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL         - usable for Standard Faults at 460/480 V at inside-					
communication module is supported       PROFINET standard         • PROFINET standard       Yes         • EtherNet/IP       Yes         • Modbus RTU       Yes         • Modbus RTU       Yes         • Modbus TCP       Yes         • PROFIBUS       Yes <b>UL/CSA ratings</b> Yes         UL/CSA ratings         usable for Standard Faults at 460/480 V according to UL         - usable for High Faults at 460/480 V according to UL       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA         - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL       Siemens type: 3VA54, max. 600 A; Iq = 18 kA         - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL       Siemens type: 3VA54, max. 600 A; Iq = 18 kA         - usable for High Faults at 460/480 V at inside-       Siemens type: 3VA54, max. 600 A; Iq = 18 kA		acc. to IEC 60947-4-2: Class A			
<ul> <li>PROFINET standard</li> <li>PROFINET standard</li> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus RTU</li> <li>Yes</li> <li>Modbus TCP</li> <li>Yes</li> <li>PROFIBUS</li> <li>Yes</li> <li>UL/CSA ratings</li> <li>UL/CSA ratings</li> <li>Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA</li> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for Standard Faults at 460/480 V at inside-</li> <li>Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA</li> <li>Siemens type: 3VA54, max. 600 A; Iq = 18 kA</li> </ul>					
<ul> <li>EtherNet/IP</li> <li>Modbus RTU</li> <li>Modbus RTU</li> <li>Yes</li> <li>Modbus TCP</li> <li>Yes</li> <li>PROFIBUS</li> <li>Yes</li> </ul> UL/CSA ratings UL/CSA ratings Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA <ul> <li>- usable for High Faults at 460/480 V according to UL</li> <li>- usable for Standard Faults at 460/480 V according to UL</li> <li>- usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>- usable for High Faults at 460/480 V at inside-for High Fau</li></ul>					
<ul> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>Yes</li> <li>PROFIBUS</li> <li>Yes</li> <li>UL/CSA ratings</li> <li>UL/CSA ratings</li> <li>Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA according to UL</li> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for Standard Faults at 460/480 V at inside-</li> <li>Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA</li> </ul>					
Modbus TCP     PROFIBUS     Yes     Yes     Ves     Ves					
PROFIBUS     Yes  UL/CSA ratings  manufacturer's article number     of circuit breaker     - usable for Standard Faults at 460/480 V     according to UL     - usable for High Faults at 460/480 V according     to UL     - usable for Standard Faults at 460/480 V at     inside-delta circuit according to UL     - usable for High Faults at 460/480 V at     inside-delta circuit according to UL     - usable for High Faults at 460/480 V at     inside-delta circuit according to UL     - usable for High Faults at 460/480 V at     inside-delta circuit according to UL     - usable for High Faults at 460/480 V at     inside-delta circuit according to UL     - usable for High Faults at 460/480 V at     inside-delta circuit according to UL     - usable for High Faults at 460/480 V at     inside-delta circuit according to UL     - usable for High Faults at 460/480 V at     inside-delta circuit according to UL     - usable for High Faults at 460/480 V at     inside-delta circuit according to UL     - usable for High Faults at 460/480 V at     inside-delta circuit according to UL     - usable for High Faults at 460/480 V at     inside-delta circuit according to UL     - usable for High Faults at 460/480 V at     inside-delta circuit according to UL     - usable for High Faults at 460/480 V at     inside-delta circuit according to UL     - usable for High Faults at 460/480 V at     inside-delta circuit according to UL     - usable for High Faults at 460/480 V at     inside-delta circuit according to UL     - usable for High Faults at 460/480 V at     inside-delta circuit according to UL     - usable for High Faults at 460/480 V at     inside-delta circuit according to UL     - usable for High Faults at 460/480 V at     inside-delta circuit according to UL     - usable for High Faults at 460/480 V at     inside-delta circuit according to UL     - usable for High Faults at 460/480 V at     inside-delta circuit according to UL     - usable for High Faults at 460/480 V at     inside-delta circuit according to UL     - usable for					
UL/CSA ratings         manufacturer's article number         • of circuit breaker         - usable for Standard Faults at 460/480 V         according to UL         - usable for High Faults at 460/480 V according to UL         - usable for Standard Faults at 460/480 V according to UL         - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL         - usable for Standard Faults at 460/480 V at inside-         Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA					
manufacturer's article number       • of circuit breaker         - usable for Standard Faults at 460/480 V according to UL       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA         - usable for High Faults at 460/480 V according to UL       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA         - usable for Standard Faults at 460/480 V at inside-delta circuit according to UL       Siemens type: 3VA54, max. 600 A; lq = 18 kA         - usable for High Faults at 460/480 V at inside-       Siemens type: 3VA54, max. 600 A; lq = 18 kA		Yes			
<ul> <li>of circuit breaker         <ul> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V according to UL</li> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 460/480 V at inside-</li> <li>Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA</li> <li>Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA</li> </ul> </li> </ul>	UL/CSA ratings				
<ul> <li>- usable for Standard Faults at 460/480 V according to UL</li> <li>- usable for High Faults at 460/480 V according to UL</li> <li>- usable for Standard Faults at 460/480 V according to UL</li> <li>- usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>- usable for High Faults at 460/480 V at inside-</li> <li>- usable for High Faults at 460/480 V at inside-</li> <li>- usable for High Faults at 460/480 V at inside-</li> <li>- usable for High Faults at 460/480 V at inside-</li> <li>- usable for High Faults at 460/480 V at inside-</li> <li>- usable for High Faults at 460/480 V at inside-</li> <li>- usable for High Faults at 460/480 V at inside-</li> <li>- usable for High Faults at 460/480 V at inside-</li> </ul>					
according to UL       — usable for High Faults at 460/480 V according to UL       Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA         — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL       Siemens type: 3VA54, max. 600 A; Iq = 18 kA         — usable for High Faults at 460/480 V at inside-       Siemens type: 3VA54, max. 600 A; Iq = 18 kA					
to ULkA— usable for Standard Faults at 460/480 V at inside-delta circuit according to ULSiemens type: 3VA54, max. 600 A; Iq = 18 kA— usable for High Faults at 460/480 V at inside-Siemens type: 3VA54, max. 600 A; Iq max = 65 kA					
inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside- Siemens type: 3VA54, max. 600 A; lq max = 65 kA	<ul> <li>of circuit breaker</li> <li>— usable for Standard Faults at 460/480 V</li> </ul>	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA			
	<ul> <li>of circuit breaker         <ul> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V according</li> </ul> </li> </ul>	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65			
	<ul> <li>of circuit breaker         <ul> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V according to UL</li> <li>usable for Standard Faults at 460/480 V at</li> </ul> </li> </ul>	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA			

<ul> <li>— usable for Standard Faults at 575/600 V according to UL</li> </ul>		Siemens type: 3VA53, max	400 A or 3VA54, max	. 600 A; Iq = 18 kA		
— usable for Standard Faults at 575/600 V inside-delta circuit according to UL	at	Siemens type: 3VA54, max.	. 600 A; lq = 18 kA			
• of the fuse						
<ul> <li>— usable for Standard Faults up to 575/600 V according to UL</li> </ul>		Type: Class J / L, max. 1000 A; Iq = 18 kA				
<ul> <li>usable for High Faults up to 575/600 V according to UL</li> </ul>		Type: Class J / L, max. 1000 A; Iq = 100 kA				
<ul> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	а	Type: Class J / L, max. 1000 A; Iq = 18 kA				
<ul> <li>— usable for High Faults at inside-delta circ to 575/600 V according to UL</li> </ul>	cuit up	Type: Class J / L, max. 1000 A; Iq = 100 kA				
operating power [hp] for 3-phase motors						
<ul> <li>at 200/208 V at 50 °C rated value</li> </ul>		75 hp				
<ul> <li>at 220/230 V at 50 °C rated value</li> </ul>		100 hp				
<ul> <li>at 460/480 V at 50 °C rated value</li> </ul>		200 hp				
<ul> <li>at 200/208 V at inside-delta circuit at 50 °C ra value</li> </ul>	ated	150 hp				
<ul> <li>at 220/230 V at inside-delta circuit at 50 °C ra value</li> </ul>	ated	200 hp				
<ul> <li>at 460/480 V at inside-delta circuit at 50 °C ra value</li> </ul>	ated	400 hp				
contact rating of auxiliary contacts according to	UL	R300-B300				
Safety related data						
protection class IP on the front acc. to IEC 6052	9	IP00; IP20 with cover				
touch protection on the front acc. to IEC 60529	-	finger-safe, for vertical contact from the front with cover				
electromagnetic compatibility	· · · · ·		in accordance with IEC 60947-4-2			
Certificates/ approvals						
				Declaration of		
General Product Approval			EMC	Declaration of Conformity		
General Product Approval	_		EMC			
General Product Approval	<b></b>	cor	EMC			
General Product Approval	(4)	EAC	EMC			
General Product Approval	٩	EAC				
General Product Approval	(J) u	EAC		Conformity		
General Product Approval	(U) JL	EAC		Conformity		
SE CCC	(الله	EAC	EMC RCM	Conformity		
General Product Approval         Image: Constraint of the second	٩	EAC	EMC RCM	Conformity		
Test Certificates Marine / Shipping	U) u	EAC	EMC ECM	Conformity		
SE CCC	U u u	EAC		Conformity		
Image: Second system       Image: Second system         Test Certificates       Marine / Shipping         Type Test Certificates       Image: Second system         Type Test Certificates       Image: Second system         Attended system       Image: Second system	(H) u	EAC	EMC RCM	Conformity CC EG-Konf.		
Image: Second system       Image: Second system         Test Certificates       Marine / Shipping         Type Test Certificates       Image: Second system         Type Test Certificates       Image: Second system         Abs       Image: Second system         Abs       Image: Second system         Abs       Image: Second system		EAC List	EMC RCM	Conformity CC EG-Konf.		
Image: Second system       Image: Second system         Test Certificates       Marine / Shipping         Type Test Certificates       Image: Second system         Type Test Certificates       Image: Second system         Abs       Image: Second system         Abs       Image: Second system		<b>ERC</b> Lister	EMC RGM	Conformity CC EG-Konf.		
Image: Second system       Image: Second system         Test Certificates       Marine / Shipping         Type Test Certificates       Image: Second system         Type Test Certificates       Image: Second system         Abs       Image: Second system         Abs       Image: Second system		<b>EAC</b> Lis	EMC RCM	Conformity CC EG-Konf.		
Image: Second system       Image: Second system         Test Certificates       Marine / Shipping         Type Test Certificates       Image: Second system         Type Test Certificates       Image: Second system         Abs       Image: Second system         Abs       Image: Second system		<b>EAC</b> List	EMC RCM	Conformity CC EG-Konf.		
Image: Second system       Image: Second system         Test Certificates       Marine / Shipping         Type Test Certificates       Image: Second system         Type Test Certificates       Image: Second system         Type Test Certificates       Image: Second system         Image: Second system       Image: Second system         Image: Second		<b>EAC</b> List	EMC RCM	Conformity CC EG-Konf.		

**Confirmation** 

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5245-2AC14 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5245-2AC14 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

## https://support.industry.siemens.com/cs/ww/en/ps/3RW5245-2AC14

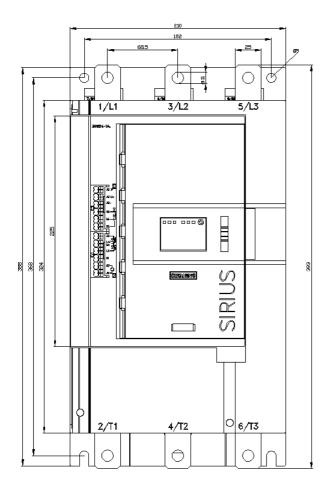
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <u>http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5245-2AC14&lang=en</u> Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

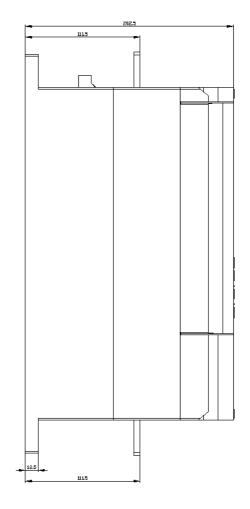
https://support.industry.siemens.com/cs/ww/en/ps/3RW5245-2AC14/char

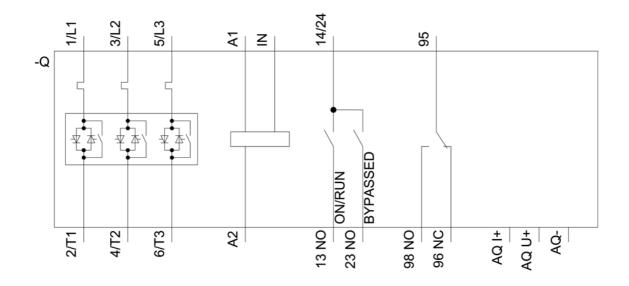
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5245-2AC14&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

https://support.industry.siemens.com/cs/ww/en/view/101494917







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