## **SIEMENS**

Data sheet 3RW5243-6AC04

SIRIUS soft starter 200-480 V 210 A, 24 V AC/DC Screw terminals Analog output



Product brand name	SIRIUS
Product category	Hybrid switching devices
Product designation	Soft starter
Manufacturer's article number	
<ul> <li>of HMI module usable</li> </ul>	3RW5980-0HS00
<ul> <li>of HMI-Modul high-feature usable</li> </ul>	<u>3RW5980-0HF00</u>
<ul> <li>of communication module PROFINET standard usable</li> </ul>	3RW5980-0CS00
<ul> <li>of communication module PROFIBUS usable</li> </ul>	3RW5980-0CP00
• of communication module Modbus TCP usable	3RW5980-0CT00
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
• of the gG fuse usable up to 690 V	2x3NA3354-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	2x3NA3354-6; Type of coordination 1, Iq = 65 kA

• of full range R fuse link for semiconductor protection usable up to 690 V

• of back-up R fuse link for semiconductor protection usable up to 690 V

3NE1230-2; Type of coordination 2, Iq = 65 kA

3NE3333; Type of coordination 2, Iq = 65 kA

General technical data	
Starting voltage [%]	30 100 %
Start-up ramp time of soft starter	0 20 s
Product component	
• is supported HMI-Standard	Yes
<ul><li>is supported HMI-High Feature</li></ul>	Yes
Product feature integrated bypass contact system	Yes
Number of controlled phases	3
Trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2
Insulation voltage	
• rated value	600 V
Degree of pollution	3
Impulse voltage rated value	6 kV
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	
<ul> <li>between main and auxiliary circuit</li> </ul>	600 V
Protection class IP	IP00
Usage category acc. to IEC 60947-4-2	AC 53a
Shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
Reference code acc. to DIN EN 81346-2	Q
Product function	
<ul><li>ramp-up (soft starting)</li></ul>	Yes
• ramp-down (soft stop)	Yes
Soft Torque	Yes
<ul> <li>Adjustable current limitation</li> </ul>	Yes
• pump ramp down	Yes
Intrinsic device protection	Yes
<ul> <li>motor overload protection</li> </ul>	Yes; Electronic motor overload protection
Evaluation of thermistor motor protection	No
• inside-delta circuit	Yes
Auto-reset	Yes
Manual RESET	Yes
• remote reset	Yes; By turning off the control supply voltage
communication function	Yes
via software configurable	Yes
firmware update	Yes

• removable terminal for control circuit

• analog output

Yes

Yes; 4 ... 20 mA (default) / 0 ... 10 V (parameterizable with High Feature HMI)

Power Electronics	
Operating current	
• at 40 °C rated value	210 A
• at 50 °C rated value	186 A
• at 60 °C rated value	170 A
Operating current at inside-delta circuit	
• at 40 °C rated value	364 A
● at 50 °C rated value	322 A
• at 60 °C rated value	294 A
Operating voltage	
• 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	10 %
Relative negative tolerance of the operating voltage at inside-delta circuit	-15 %
Relative positive tolerance of the operating voltage at inside-delta circuit	10 %
Operating power for three-phase motors	
at 230 V at 40 °C rated value	55 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	110 kW
• at 400 V at 40 °C rated value	110 kW
<ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>	200 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	
• minimum	90 A
at inside-delta circuit minimum	156 A
Minimum load [%]	15 %; Relative to smallest settable le
Power loss [W] for rated value of the current at AC	
• at 40 °C to power-up	75 W
• at 50 °C to power-up	68 W
• at 60 °C to power-up	63 W
Control circuit/ Control	

Type of voltage of the control supply voltage	AC/DC
Control supply voltage at AC	
• at 50 Hz rated value	24 V
• at 60 Hz rated value	24 V
Relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
Relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
Relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
Relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
Control supply voltage frequency	50 60 Hz
Relative negative tolerance of the control supply voltage frequency	-10 %
Relative positive tolerance of the control supply voltage frequency	10 %
Control supply voltage	
• at DC rated value	24 V
Relative negative tolerance of the control supply voltage at DC	-20 %
Relative positive tolerance of the control supply voltage at DC	20 %
Control supply current in standby mode rated value	160 mA
Holding current in the by-pass mode operating rated value	470 mA
Starting current at close of by-pass contact maximum	7.6 A
Inrush current peak at connect of control supply voltage maximum	3.3 A
Duration of inrush current peak at connect of control supply voltage	12.1 ms
Design of the overvoltage protection	Varistor
Design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply

Inputs/ Outputs	
Number of digital inputs	1
Number of 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

mounting surface +/- 22.5° tiltable to the front and back  Mounting type  screw fixing  393 mm  With  Depth  Required spacing with side-by-side mounting  • forwards  • Backwards  • upwards  • at the side  • at the side  maximum  Weight without packaging  onnections/Terminals  Type of electrical connection  • for main current circuit  • for DIN cable lug for main contacts stranded  • for DIN cable lug for main contacts finely stranded  • for control circuit finely stranded with core end processing  • at AWG conductors for control circuit solid  • for control circuit finely stranded with core end processing  • at AWG conductors for control circuit solid  • the digital inputs at AC maximum  • at the digital inputs at AC maximum  • at the digital inputs at DC maximum  • at the digital inputs at DC maximum  • during operation  • during operation  • 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  Pommetal on mm  100 m  10 mm  20 at MC Conductors cross-sections  10 control circuit finely stranded with core end processing  10 control circuit finely stranded with core end processing  10 control circuit finely stranded with core end processing  10 mm	Mounting position	with vertical mounting surface +/-90° rotatable, with vertical
Height 393 mm  Width 210 mm  Depth 203 mm  Required spacing with side-by-side mounting  • forwards 100 mm  • backwards 100 mm  • downwards 5 mm  • at the side 5 mm  Installation altitude at height above sea level maximum  Weight without packaging 9.9 kg  Vonnections/Terminals  Type of electrical connection • for control circuit 5 crew-type terminals  • for DIN cable lug for main contacts stranded 6 for DIN cable lug for main contacts finely stranded 7 for control circuit solid 9 (x 0.5 2.5 mm²)  • for control circuit finely stranded with core end processing • at AWG conductors for control circuit solid 1x (20 12), 2x (20 14)  Wire length • between soft starter and motor maximum 100 m 100		and the second s
Depth   203 mm   Required spacing with side-by-side mounting   6 nowards   0 mm   0	Mounting type	screw fixing
Depth Required spacing with side-by-side mounting  • forwards • Backwards • upwards • at the side Installation altitude at height above sea level maximum Weight without packaging • for control circuit • for control circuit • for control circuit stranded • for DIN cable lug for main contacts finely stranded • for control circuit stranded • for DIN cable lug for main contacts finely stranded • for control circuit solid • at AWG conductors for control circuit solid  Wire length • between soft starter and motor maximum • at the digital inputs at AC maximum • at the digital inputs at AC maximum • at the digital inputs at DC maximum • at the digital inputs at DC maximum • at the digital inputs at AC maximum • a	Height	393 mm
e forwards e forwards 10 mm 100 mm e downwards e downwards e at the side Installation altitude at height above sea level maximum weight without packaging 9.9 kg  Connections/Terminals Type of electrical connection e for DIN cable lug for main contacts stranded for control circuit solid for control circuit finely stranded with core end processing at AWG conductors for control circuit solid for control circuit finely stranded with core end processing at AWG conductors for control circuit solid  e the digital inputs at AC maximum e at the digital inputs at AC maximum e at the digital inputs at AC maximum e at the digital inputs at DC maximum e during operation e for wards 100 mm 100 mm 50000 m; Derating as of 1000 m, see catalog 5000 m; Derating as	Width	210 mm
• forwards • Backwards • Domm • Backwards • Upwards • John mm • Jo	Depth	203 mm
Backwards upwards upwards the side status at the s	Required spacing with side-by-side mounting	
• upwards • downwards • downwards • at the side  Installation altitude at height above sea level maximum  Weight without packaging  9.9 kg  Sonnections/Terminals  Type of electrical connection • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded  Type of connectable conductor cross-sections • for control circuit solid • for control circuit solid • for control circuit solid  1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) • at AWG conductors for control circuit solid  **Detween soft starter and motor maximum • at the digital inputs at AC maximum • at the digital inputs at AC maximum • at the digital inputs at DC maximum • during operation • during operation • 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	• forwards	10 mm
• downwards • at the side  Installation affitude at height above sea level maximum  Weight without packaging  9.9 kg  Connections/Terminals  Type of electrical connection • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded  Type of connectable conductor cross-sections • for control circuit finely stranded with core end processing • at AWG conductors for control circuit solid  Wire length • between soft starter and motor maximum • at the digital inputs at DC maximum • during operation • 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	Backwards	0 mm
• at the side  Installation altitude at height above sea level maximum  Weight without packaging  Sonnections/Terminals  Type of electrical connection  • for main current circuit • for control circuit  Type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded  Type of connectable conductor cross-sections • for control circuit solid • for control circuit solid  1x (0.5 4.0 mm²)	• upwards	100 mm
Installation altitude at height above sea level maximum  Weight without packaging  9.9 kg  Sonnections/Terminals  Type of electrical connection  • for main current circuit screw-type terminals  Type of connectable conductor cross-sections  • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded  Type of connectable conductor cross-sections  • for control circuit solid 2x (50 240 mm²)  2x (70 240 mm²)  2x (70 240 mm²)  1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)  1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)  1x (20 12), 2x (20 14)  Wire length  • between soft starter and motor maximum  • at the digital inputs at AC maximum  • at the digital inputs at DC maximum  • at the digital inputs at	• downwards	75 mm
Weight without packaging 9.9 kg  Sonnections/Terminals  Type of electrical connection • for main current circuit • for control circuit  Type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts stranded • for control circuit solid  Type of connectable conductor cross-sections • for control circuit solid  1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)  1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)  1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)  1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)  1x (0.0 12), 2x (20 14)  Wire length • between soft starter and motor maximum • at the digital inputs at AC maximum • at the digital inputs at DC maximum • at the digital inputs at DC maximum • at the digital inputs at DC maximum • during operation • during storage and transport  Environmental 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	• at the side	5 mm
Sonnections/Terminals	Installation altitude at height above sea level	5 000 m; Derating as of 1000 m, see catalog
Type of electrical connection  • for main current circuit  • for control circuit  Screw-type terminals  Type of connectable conductor cross-sections  • for DIN cable lug for main contacts stranded  • for DIN cable lug for main contacts finely stranded  Type of connectable conductor cross-sections  • for control circuit solid  Type of connectable conductor cross-sections  • for control circuit solid  1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)  1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)  1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)  1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)  1x (0.5 10 mm²), 2x (0.5 10	maximum	
Type of electrical connection  • for main current circuit  • for control circuit  Type of connectable conductor cross-sections  • for DIN cable lug for main contacts stranded  • for DIN cable lug for main contacts finely stranded  • for control circuit solid  Type of connectable conductor cross-sections  • for control circuit solid  • for control circuit solid  • for control circuit finely stranded with core end processing  • at AWG conductors for control circuit solid  • between soft starter and motor maximum  • at the digital inputs at AC maximum  • at the digital inputs at DC maximum  • at the digital inputs at DC maximum  • during operation  • during storage and transport  Environmental category  • during operation acc. to IEC 60721  Screw-type terminals  screw-type terminals  \$crew-type terminals  \$2x (50 240 mm²)  2x (70 240 mm²)  2x (70 240 mm²)  1x (0.5 2.5 mm²), 2x (0.5 2.5 mm²)  1x (0.5 2.5 mm²)  1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)  1x (0.5 2.5 mm²)  1x (0.5 2.5 mm²), 2x (0.5 2.5 mm²)  1x	Weight without packaging	9.9 kg
Type of electrical connection  • for main current circuit  • for control circuit  Type of connectable conductor cross-sections  • for DIN cable lug for main contacts stranded  • for DIN cable lug for main contacts finely stranded  • for control circuit solid  Type of connectable conductor cross-sections  • for control circuit solid  • for control circuit solid  • for control circuit finely stranded with core end processing  • at AWG conductors for control circuit solid  • between soft starter and motor maximum  • at the digital inputs at AC maximum  • at the digital inputs at DC maximum  • at the digital inputs at DC maximum  • at the digital inputs at DC maximum  • during operation  • during storage and transport  Environmental 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	Connections/Terminals	
• for control circuit  Type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded  Type of connectable conductor cross-sections • for control circuit solid • for control circuit solid • for control circuit finely stranded with core end processing • at AWG conductors for control circuit solid  1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)  1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)  1x (20 12), 2x (20 14)  Wire length • between soft starter and motor maximum • at the digital inputs at AC maximum • at the digital inputs at DC maximum  1000 m  Imbient conditions  Ambient temperature • during operation • during storage and transport  Environmental 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		
Type of connectable conductor cross-sections  • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded  Type of connectable conductor cross-sections • for control circuit solid • for control circuit finely stranded with core end processing • at AWG conductors for control circuit solid  1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)  1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)  1x (20 12), 2x (20 14)  Wire length • between soft starter and motor maximum • at the digital inputs at AC maximum • at the digital inputs at DC maximum • at the digital inputs at DC maximum  100 m • at the digital inputs at DC maximum  100 m • during operation • during storage and transport  Environmental 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	for main current circuit	screw-type terminals
• for DIN cable lug for main contacts stranded     • for DIN cable lug for main contacts finely stranded  Type of connectable conductor cross-sections     • for control circuit solid     • for control circuit finely stranded with core end processing     • at AWG conductors for control circuit solid  Ix (0.5 4.0 mm²), 2x (0.5 2.5 mm²)  1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)  1x (20 12), 2x (20 14)  Wire length     • between soft starter and motor maximum     • at the digital inputs at AC maximum     • at the digital inputs at DC maximum     • at the digital inputs at DC maximum  100 m  1 mbient conditions  Ambient temperature     • during operation     • during storage and transport  Environmental 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	• for control circuit	screw-type terminals
• for DIN cable lug for main contacts finely stranded  Type of connectable conductor cross-sections      • for control circuit solid     • for control circuit finely stranded with core end processing     • at AWG conductors for control circuit solid     1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)  1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)  1x (20 12), 2x (20 14)  Wire length     • between soft starter and motor maximum     • at the digital inputs at AC maximum     • at the digital inputs at DC maximum     • at the digital inputs at DC maximum     100 m  mbient conditions  Ambient temperature     • during operation     • during storage and transport  Environmental 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	Type of connectable conductor cross-sections	
Type of connectable conductor cross-sections  • for control circuit solid  • for control circuit finely stranded with core end processing  • at AWG conductors for control circuit solid  1x (0.5 2.5 mm²), 2x (0.5 2.5 mm²)  1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)  1x (0.5	• for DIN cable lug for main contacts stranded	2x (50 240 mm²)
Type of connectable conductor cross-sections  • for control circuit solid  • for control circuit finely stranded with core end processing  • at AWG conductors for control circuit solid  **Note length*  • between soft starter and motor maximum  • at the digital inputs at AC maximum  • at the digital inputs at DC maximum  • at the digital inputs at DC maximum  • at the during operation  • during storage and transport  Environmental category  • during operation acc. to IEC 60721  **Strandard**  **Time (0.5 4.0 mm²), 2x (0.5 2.5 mm²)  1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)  1x (0	for DIN cable lug for main contacts finely	2x (70 240 mm²)
• for control circuit solid     • for control circuit finely stranded with core end processing     • at AWG conductors for control circuit solid  Wire length     • between soft starter and motor maximum     • at the digital inputs at AC maximum     • at the digital inputs at DC maximum     • at the digital inputs at DC maximum     • at the during operation     • during storage and transport  Environmental category     • during operation acc. to IEC 60721  1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)  1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²	stranded	
• for control circuit finely stranded with core end processing     • at AWG conductors for control circuit solid  Wire length     • between soft starter and motor maximum     • at the digital inputs at AC maximum     • at the digital inputs at DC maximum     • at the digital inputs at DC maximum     • during operation     • during storage and transport  Environmental category     • during operation acc. to IEC 60721  1x (20 12), 2x (20 14)  1x (20 15 mm²)  1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)  1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)  1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	Type of connectable conductor cross-sections	
processing  • at AWG conductors for control circuit solid  1x (20 12), 2x (20 14)  Wire length  • between soft starter and motor maximum  • at the digital inputs at AC maximum  • at the digital inputs at DC maximum  100 m  1 000 m  mbient conditions  Ambient temperature  • during operation  • during storage and transport  Environmental 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	• for control circuit solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
<ul> <li>at AWG conductors for control circuit solid</li> <li>Wire length</li> <li>between soft starter and motor maximum</li> <li>at the digital inputs at AC maximum</li> <li>at the digital inputs at DC maximum</li> <li>100 m</li> <li>at the digital inputs at DC maximum</li> <li>1 000 m</li> </ul> Ambient conditions Ambient temperature <ul> <li>during operation</li> <li>during storage and transport</li> <li>40 +80 °C</li> </ul> Environmental category <ul> <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> </ul>	• for control circuit finely stranded with core end	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
<ul> <li>Wire length</li> <li>between soft starter and motor maximum</li> <li>at the digital inputs at AC maximum</li> <li>at the digital inputs at DC maximum</li> <li>1 000 m</li> </ul> Imbient conditions Ambient temperature <ul> <li>during operation</li> <li>during storage and transport</li> <li>Environmental category</li> <li>during operation acc. to IEC 60721</li> </ul> 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6	processing	
<ul> <li>between soft starter and motor maximum</li> <li>at the digital inputs at AC maximum</li> <li>at the digital inputs at DC maximum</li> <li>1 000 m</li> <li>1 000 m</li> <li>1 000 m</li> <li>4 during operation</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> </ul>		1x (20 12), 2x (20 14)
<ul> <li>at the digital inputs at AC maximum</li> <li>at the digital inputs at DC maximum</li> <li>1 000 m</li> <li>25 +60 °C</li> <li>4 during operation</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> </ul>	Wire length	
<ul> <li>at the digital inputs at DC maximum</li> <li>at the digital inputs at DC maximum</li> <li>ambient conditions</li> <li>Ambient temperature</li> <li>during operation</li> <li>during storage and transport</li> <li>and the digital inputs at DC maximum</li> <li>-25 +60 °C</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> </ul>	<ul> <li>between soft starter and motor maximum</li> </ul>	
Ambient conditions  Ambient temperature  • during operation • during storage and transport  Environmental 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	<ul> <li>at the digital inputs at AC maximum</li> </ul>	
Ambient temperature  • during operation  • during storage and transport  -40 +80 °C  Environmental 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	<ul><li>at the digital inputs at DC maximum</li></ul>	1 000 m
Ambient temperature  • during operation  • during storage and transport  -40 +80 °C  Environmental 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	mbient conditions	
<ul> <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> </ul>		
Environmental 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 operation	-25 +60 °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 storage and transport	-40 +80 °C
salt mist), 3S2 (sand must not get into the devices), 3M6	Environmental category	
	• during operation acc. to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no
• during storage acc. to IEC 60721 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sa		salt mist), 3S2 (sand must not get into the devices), 3M6
	<ul> <li>during storage acc. to IEC 60721</li> </ul>	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sa

2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)

Communication/ Protocol	
Communication module is supported	
<ul> <li>PROFINET standard</li> </ul>	Yes
Modbus TCP	Yes
• PROFIBUS	Yes

UL/CSA ratings	
Manufacturer's article number	
<ul> <li>of fuse at Standard Faults usable up to 575/600</li> <li>V according to UL</li> </ul>	Type: Class J / L, max. 700 A; Iq = 10 kA
<ul> <li>of fuse at Standard Faults usable at inside- delta circuit up to 575/600 V according to UL</li> </ul>	Type: Class J / L, max. 700 A; Iq = 10 kA
Operating power [hp] for three-phase motors	
<ul> <li>at 200/208 V at 50 °C rated value</li> </ul>	60 hp
<ul> <li>at 220/230 V at 50 °C rated value</li> </ul>	60 hp
• at 460/480 V at 50 °C rated value	150 hp
<ul> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> </ul>	100 hp
<ul> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> </ul>	125 hp
<ul> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> </ul>	250 hp
Contact rating of auxiliary contacts according to UL	R300-B300

**General Product Approval** 

Declaration of Conformity

Test Certificates











Type Test Certificates/Test Report

Marine / Ship- other ping



Confirmation

## Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5243-6AC04

## Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5243-6AC04

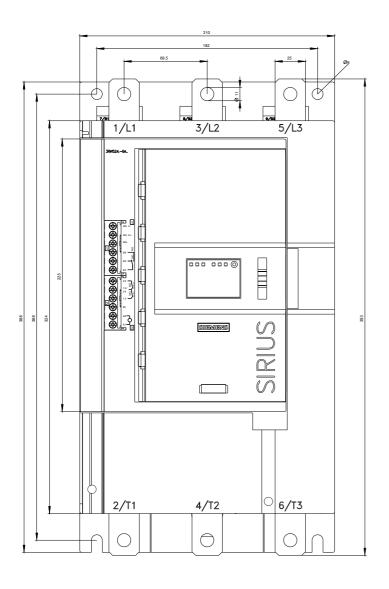
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW5243-6AC04

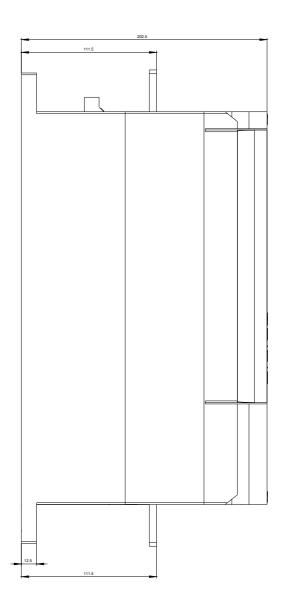
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5243-6AC04&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5243-6AC04&lang=en</a>

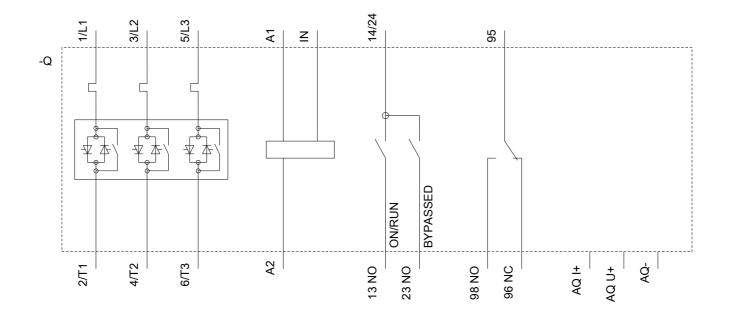
Characteristic: Tripping characteristics, I2t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5243-6AC04/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5243-6AC04&objecttype=14&gridview=view1







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