## **SIEMENS**

product brand name

Data sheet 3RW5513-1HA04

SIRIUS



SIRIUS soft starter 200-480 V 13 A, 24 V AC/DC Screw terminals

product brand name	GINOS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW55
manufacturer's article number	
<ul> <li>of high feature HMI module usable</li> </ul>	3RW5980-0HF00
• of communication module PROFINET standard usable	3RW5980-0CS00
of communication module PROFINET high-feature usable	3RW5950-0CH00
<ul> <li>of communication module PROFIBUS usable</li> </ul>	3RW5980-0CP00
• of communication module Modbus TCP usable	3RW5980-0CT00
• of communication module Modbus RTU usable	3RW5980-0CR00
<ul> <li>of communication module Ethernet/IP</li> </ul>	3RW5980-0CE00
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3RV2032-4TA10; Type of coordination 1, Iq = 65 kA, CLASS 10
• of circuit breaker usable at 500 V	3RV2032-4TA10; Type of coordination 1, Iq = 18 kA, CLASS 10
• of circuit breaker usable at 400 V at inside-delta circuit	3RV2032-4DA10; Type of coordination 1, Iq = 65 kA, CLASS 10
• of circuit breaker usable at 500 V at inside-delta circuit	3RV2032-4DA10; Type of coordination 1, Iq = 18 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3820-6; Type of coordination 1, Iq = 65 kA
• of the gG fuse usable at inside-delta circuit up to 500 V	3NA3820-6; 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>	3NE1815-0; Type of coordination 2, Iq = 65 kA
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	3NE8017-1; Type of coordination 2, Iq = 65 kA
eneral technical data	
starting voltage [%]	20 100 %
stopping voltage [%]	50 %; non-adjustable
start-up ramp time of soft starter	0 360 s
ramp-down time of soft starter	0 360 s
start torque [%]	10 100 %
stopping torque [%]	10 100 %
torque limitation [%]	20 200 %
current limiting value [%] adjustable	125 800 %
breakaway voltage [%] adjustable	40 100 %
breakaway time adjustable	0 2 s
number of parameter sets	3
accuracy class	
•	5 (based on IEC 61557-12)
certificate of suitability	5 (based on IEC 61557-12)
certificate of suitability  • CE marking	5 (based on IEC 61557-12) Yes
-	
• CE marking	Yes
<ul><li>CE marking</li><li>UL approval</li></ul>	Yes Yes

Yes
3
CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2
10 60 %
10 95 %
100 ms
100 ms
0 255 s
480 V
3, acc. to IEC 60947-4-2
6 kV
1 600 V
1.15
6 kV
480 V; does not apply for thermistor connection
15 g / 11 ms, from 6 g / 11 ms with potential contact lifting
15 mm up to 6 Hz; 2 g up to 500 Hz
60 1 800 s
AC 53a
Q
02/15/2018
W
Yes
Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit.
Yes; Type A PTC or Klixon / Thermoclick
Yes
No
Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules
Yes
Vee
Yes
Yes
Yes Yes
Yes Yes Yes
Yes Yes



, ,,	
automatic parameterisation	Yes
application wizards	Yes
alternative run-down	Yes
<ul> <li>emergency operation mode</li> </ul>	Yes
<ul> <li>reversing operation</li> </ul>	Yes
<ul> <li>soft starting at heavy starting conditions</li> </ul>	Yes
Power Electronics	
operational current	
<ul> <li>at 40 °C rated value</li> </ul>	13 A
<ul> <li>at 40 °C rated value minimum</li> </ul>	2.5 A
<ul> <li>at 50 °C rated value</li> </ul>	11.5 A
• at 60 °C rated value	10.5 A
operational current at inside-delta circuit	
• at 40 °C rated value	22.5 A
• at 50 °C rated value	19.9 A
• at 60 °C rated value	18.2 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	-15 %
inside-delta circuit	
relative positive tolerance of the operating voltage at	10 %
inside-delta circuit operating power for 3-phase motors	
at 230 V at 40 °C rated value	3 kW
at 230 V at 40 C rated value     at 230 V at inside-delta circuit at 40 °C rated value	5.5 kW
at 400 V at 40 °C rated value     at 400 V at incide delta circuit at 40 °C rated value	5.5 kW 11 kW
at 400 V at inside-delta circuit at 40 °C rated value  Operating frequency 1 rated value.	50 Hz
Operating frequency 2 rated value	60 Hz
Operating frequency 2 rated value relative negative tolerance of the operating frequency	-10 %
	10 %
relative positive tolerance of the operating frequency	10 % 10 %; Relative to set le
minimum load [%] power loss [W] for rated value of the current at AC	10 /0, INCIALIVE TO SEL IC
at 40 °C after startup	4 W
at 40 C after startup     at 50 °C after startup	3 W
• at 60 °C after startup	3 W
	J VV
power loss [W] at AC at current limitation 350 %	100 W
at 40 °C during startup      at 50 °C during startup	198 W
• at 50 °C during startup	166 W
at 60 °C during startup  type of the mater protection	148 W
type of the motor protection  Control circuit/ Control	Electronic, tripping in the event of thermal overload of the motor
	ACIDO
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	241/
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	



relative negative tolerance of the control supply voltage at DC control supply current in standary mode rated value holding current in standary mode rated value holding current in thypass operation rated value holding current in thypass operation rated value housing current in thypass operation rated value housing current in thypass operation rated value maximum holding current by closing the hypass contacts maximum nanch current by closing the hypass contacts maximum nanch current by closing the hypass contacts maximum nanch current by closing the hypass contacts maximum holding current peak at application of control supply voltage design of the overvoltage protection  design of short-circuit protection for control circuit  sopio of short-circuit protection for control circuit  protection of the overvoltage protection  design of short-circuit protection for control circuit  protection of digital inputs  * number of digital inputs  * number of digital outputs  * number of digital outputs  * number of digital outputs parameterizable  * number of digital outputs  * number of digital outputs  * number of digital outputs parameterizable  * number of digital outputs	a at DC rated value	24.1/
DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value tholding current in bypass operation rated value 420 mA 820 mA 920 mS 920	at DC rated value  relative regetive televenes of the central cumply veltage at	24 V
Control supply current in standby mode rated value hobiling current in bypass operation rated value horized current by closing the bypass centacts maximum inrush current by closing the bypass centacts maximum current peak at application of control supply voltage maximum design of innosh current peak at application of control supply voltage design of the overvoltage protection  design of short-circuit protection for control circuit benefits of the provided protection for control circuit benefits of the overvoltage protection  design of short-circuit protection for control circuit benefits of the overvoltage protection  4 A g is sue (ficu=1 kA), 6 A quick-acting fuse (ficu=1 kA), C1 ministure circuit benefits (ficu=500 A), 6 ministure circuit breaker (ficu=300 A), is not part or benefits (ficu=600 A), 6 ministure circuit breaker (ficu=300 A), is not part or benefits (ficu=600 A), 6 ministure circuit breaker (ficu=300 A), is not part or benefits (ficu=600 A), 6 ministure circuit breaker (ficu=300 A), is not part or benefits (ficu=600 A), 6 ministure circuit breaker (ficu=300 A), is not part or benefits (ficu=600 A), 6 ministure circuit breaker (ficu=300 A), is not part or benefits (ficu=600 A), 6 ministure circuit breaker (ficu=300 A), is not part or benefits (ficu=600 A), 6 ministure circuit breaker (ficu=300 A), is not part or benefits (ficu=600 A), 6 ministure circuit breaker (ficu=300 A), is not part or benefits (ficu=600 A), 6 ministure circuit breaker (ficu=300 A), is not part or benefits (ficu=600 A), 6 ministure circuit breaker (ficu=300 A), is not part or benefits (ficu=600 A), 6 ministure circuit breaker (ficu=300 A), is not part or benefits (ficu=600 A), 6 ministure circuit breaker (ficu=300 A), is not part or benefits (ficu=600 A), 6 ministure circuit breaker (ficu=600 A), 6 ministure circuit bre	DC	
holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection  design of the overvoltage protection  design of short-circuit protection for control circuit  braker (bue= 000 A). 60 miniature circuit braker (bue= 300 A), is not part to scope of supply  inputs!  * number of digital outputs  * number of digital outputs  * number of digital outputs and parameterizable  * number of digital outputs not parameterizable  * number of digital outputs of the relay outputs  * at AC-15 at 250 V rated value  * at DC-13 at 24 V rated value  * for owner of supply  * owner of digital outputs on the relay outputs  * at DC-13 at 24 V rated value  * at DC-13 at 24 V rated value  * owner of supply  * owner of digital outputs or owner owne		20 %
Increase current by closing the bypass contacts maximum maximum through current peak at application of control supply voltage maximum clauration of insust current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit  Inputs' Outputs  number of digital inputs  • number of digital inputs  • number of digital outputs parameterizable  • number of digital outputs  • 10 -13 at 24 V rated value  Intelligitation mechanism  mounting position  fastening explosed outputs  • 10 -13 at 24 V rated value  Intelligitation mechanism outputs  mounting position  fastening method  height  • 10 mm  • 100 mm  • borowards  • powards  • powards  • of owards  • of owar	control supply current in standby mode rated value	420 mA
Institute current peak at application of control supply voltage maximum duration of innush current peak at application of control supply voltage design of the overvoltage protection voltage and the supply voltage of supply volta	holding current in bypass operation rated value	820 mA
maximum duration of insus current peak at application of control supply voitage design of the overvoltage protection  design of short-circuit protection for control circuit  by A gG fuse ((cu=1 kA), 6 A quick-acting fuse ((cu=1 kA), C1 miniature circuit scope of supply)  Imputs/ Outputs  number of digital inputs  number of digital inputs  number of digital outputs parameterizable  number of analog outputs  number of digital outputs parameterizable  number of digital outputs parameterizable  number of digital outputs  num	inrush current by closing the bypass contacts maximum	0.91 A
voltage design of the overvoltage protection  design of short-circuit protection for control circuit  design of short-circuit protection for control circuit  protect or scope of supply  inputs/ Outputs  number of digital inputs  • parameterizable  • number of digital outputs parameterizable  • number of all add supply to severe the scope of supply  digital output version  • number of all add soutputs parameterizable  • number of all add soutputs  • all AC-15 at 250 V rated value  • all AC-15 at 250 V rated value  • all C-15 at 250 V rated value  • all C-15 at 250 V rated value  • all C-15 at 250 V rated value  • all AC-15 at 250 V rated value  • all C-15 at 250 V rated value  •		7.5 A
design of short-circuit protection for control circuit  ### A QG Stace (fue=1 kA), 5 A quick-acting fuse (fue=1 kA), 5 is not part of scope of supply)  ### Imputs/ Outputs  number of digital inputs    * parameterizable		20 ms
Inputs/ Outputs  number of digital inputs  number of digital inputs  number of digital outputs  digital output version  number of analog outputs  stricts at 250 V rated value  national 250 V rated value  nat	design of the overvoltage protection	Varistor
number of digital inputs    parameterizable	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
enumber of digital outputs     enumber of digital outputs parameterizable     enumber of digital outputs parameterizable     enumber of digital outputs not parameterizable     digital output version     number of analog outputs     ear AC-15 at 28 0 V rated value     ear DC-13 at 28 V rated value     ear D	Inputs/ Outputs	
• number of digital outputs • number of digital outputs parameterizable • number of digital outputs not parameterizable • number of analog outputs  of digital output version number of analog outputs  1 switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-15 at 24 V rated value • beight  vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) statening method height  275 mm width 170 mm depth 152 mm required spacing with side-by-side mounting • forwards • backwards • outpwards • outpwards • outpwards • outpwards • other without packaging  connections/ Terminals  type of electrical connection • of main current circuit • for control circuit • or control circuit • with conductor cross-section = 0.5 mm² maximum • with cond	number of digital inputs	4
• number of digital outputs 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 • at DC-13 at 24 V rated value • at DC-13 at 24 V rated value • at DC-13 at 250 V rated value    Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)   fastening method   Sorew fixing   Sorew fixing   Sorew fixing   Sorew fixing   Orman	parameterizable	4
• number of digital outputs parameterizable • number of digital outputs not parameterizable digital output version  number of analog outputs  switching capacity current of the relay outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value • at DC-13 at 24 V rated value • at DC-13 at 24 V rated value  number of mounting position  fastening method  screw fixing  width  depth  152 mm  required spacing with side-by-side mounting • forwards • backwards • ot many • other width downwards • at the side • at the side • at the side  some outputs • of remain current circuit • for control circuit soild • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 1.5 mm² maximum • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 0.5 mm² maximum • with conductor cross-sections • for main contects  - soilc  - soilc  - finely stranded with core end processing • for AWG cables for control circuit soild • for control circuit finely stranded with core end processing • for control circuit finely stranded with core end processing • for control circuit finely stranded with core end processing • for control circuit finely stranded with core end processing • for control circuit finely stranded with core end processing • for control circuit finely stranded with core end processing • for control circuit finely stranded with core end processing • for control circuit soild		
• number of digital outputs parameterizable anumber of digital outputs not parameterizable digital output version 3 normally-open contacts (NO) / 1 changeover contact (CO)  number of analog outputs 1	number of digital outputs	4
<ul> <li>number of digital outputs not parameterizable</li> <li>digital output version</li> <li>3 normally-open contacts (NO) / 1 changeover contact (CO)</li> <li>number of analog outputs</li> <li>at AC-15 at 250 V rated value</li> <li>at AC-15 at 250 V rated value</li> <li>1 A</li> <li>installation/ mounting/ dimensions</li> <li>mounting position</li> <li>fastening method</li> <li>screw fixing</li> <li>vortical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)</li> <li>fastening method</li> <li>screw fixing</li> <li>upwards</li> <li>if owneds</li> <li>upwards</li> <li>upwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>backwards</li> <li>of ownwards</li> <li>at the side</li> <li>screw-type terminals</li> <li>type of electrical connection</li> <li>of or main current circuit</li> <li>of or main current circuit</li> <li>with conductor cross-section = 1.5 mm² maximum</li> <li>with conductor cross-section = 2.5 mm² maximum</li> <li>with conductor cross-section = 2.5 mm² maximum</li> <li>with conductor cross-section = 2.5 mm² maximum</li> <li>with conductor cross-sections</li> <li>of or main contacts</li> <li>— soild</li> <li>— soild</li> <li>— finely stranded with core end processing</li> <li>of or control circuit finely stranded with core end processing</li> <li>of or control circuit finely stranded with core end processing</li> <li>of or control circuit finely stranded with core end processing</li> <li>of or control circuit finely stranded with core end processing</li> <li>of or control circuit finely stranded with core end processing</li> <li>of or Control circuit soilid</li> <li>tx (0.5 4.0 mm²), 2x (0.5 1.5 mm²)</li> <li>tx (0.5 2.5 mm²), 2x (0.5 1.5</li></ul>		
digital output version     3 normally-open contacts (NO) / 1 changeover contact (CO)       number of analog outputs     1       switching capacity current of the relay outputs     3 A       at DC-15 at 250 V rated value     1 A       installation/ mounting/ dimensions     Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)       fastening method     screw fixing       height     275 mm       width     170 mm       depth     152 mm       required spacing with side-by-side mounting     0 mm       • forwards     0 mm       • backwards     0 mm       • backwards     0 mm       • downwards     5 mm       • at the side     5 mm       weight without packaging     2.3 kg       Connections! Terminals     5 mm       • for main current circuit     screw-type terminals       • for control circuit     screw-type terminals       wire length for thermistor connection     5 m       • with conductor cross-section = 0.5 mm² maximum     50 m       • with conductor cross-section = 1.5 mm² maximum     250 m       • with conductor cross-section = 2.5 mm² maximum     250 m       • for main contacts     2x (1.0 2.5 mm²), 2x (2.5 10 mm²)       • for finali contacts     2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)       • for final		
number of analog outputs         1           switching capacity current of the relay outputs         3 A           at AC-15 at 250 V rated value         1 A           at AC-15 at 250 V rated value         1 A           Installation/ mounting/ dimensions         Vertical (can be rotated */- 90° and tilted forward or backward */- 22.5°)           fastening method         screw fixing           height         275 mm           width         170 mm           depth         152 mm           required spacing with side-by-side mounting         6 normal           of forwards         0 mm           o backwards         0 mm           o backwards         0 mm           o downwards         5 mm           ot with side-by-side mounting         75 mm           o forwards         100 mm           o downwards         5 mm           o downwards         5 mm           o downwards         5 mm           of main current circuit         screw-type terminals           type of electrical connection         screw-type terminals           wire length for thermistor connection         5 mm² maximum         150 m           with conductor cross-section = 0.5 mm² maximum         150 m           with conductor cross-sectio		
switching capacity current of the relay outputs  at AC-15 at 250 V rated value  at AC-15 at 250 V rated value  1 A  Installation mounting dimensions  mounting position  Vertical (can be rotated +/- 90* and tilted forward or backward +/- 22.5*)  fastening method  height  275 mm  width  170 mm  depth  152 mm  required spacing with side-by-side mounting  • forwards  • backwards  • upwards  • backwards  • upwards  • at the side  5 mm  woight without packaging  connections/ Terminals  type of electrical connection  • for main current circuit  • for control circuit  with conductor cross-section = 0.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  • for for main current circuit solid  • for for AWG cables for main current circuit solid  • for control circuit finely stranded with core end processing  • for control circuit finely stranded with core end processing  • for control circuit finely stranded with core end processing  • for control circuit finely stranded with core end processing  • for control circuit finely stranded with core end processing  • for control circuit finely stranded with core end processing  • for control c	<u> </u>	
• at AC-15 at 250 V rated value         1 A           • at DC-13 at 24 V rated value         1 A           Installation/ mounting / dimensions         Vertical (can be rotated +/- 90* and tilted forward or backward +/- 22.5*)           fastening method         screw fixing           height         275 mm           width         170 mm           depth         152 mm           required spacing with side-by-side mounting         10 mm           • forwards         0 mm           • backwards         0 mm           • downwards         75 mm           • downwards         5 mm           • at the side         5 mm           weight without packaging         2.3 kg           connections/ Terminals         5 mm           type of electrical connection         screw-type terminals           • for main current circuit         screw-type terminals           • for romain current circuit         screw-type terminals           • with conductor cross-section = 0.5 mm² maximum         50 m           • with conductor cross-section = 1.5 mm² maximum         150 m           • with conductor cross-section = 2.5 mm² maximum         250 m           • for namic contacts         - solid           — solid         2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²		
■ at DC-13 at 24 V rated value		3 A
mounting position fastening method screw fixing height vidth 170 mm  depth required spacing with side-by-side mounting forwards backwards barma backwards ba		
mounting position         Vertical (can be rotated +/- 90" and tilted forward or backward +/- 22.5")           fastening method         screw fixing           height         275 mm           width         170 mm           depth         152 mm           required spacing with side-by-side mounting         10 mm           6 backwards         0 mm           4 backwards         0 mm           4 downwards         5 mm           5 mm         23 kg           Connections/Terminals         5 mm           type of electrical connection         5 crew-type terminals           4 for control circuit         50 m           with conductor cross-section = 0.5 mm² maximum         150 m           4 with conductor cross-section = 2.5 mm² maximum         250 m		
fastening method         screw fixing           height         275 mm           width         170 mm           depth         152 mm           required spacing with side-by-side mounting         152 mm           e forwards         0 mm           e backwards         0 mm           e downwards         75 mm           e at the side         5 mm           weight without packaging         2.3 kg           Connections/ Torminals           type of electrical connection           e for main current circuit         screw-type terminals           vire length for thermistor connection         50 m           with conductor cross-section = 0.5 mm² maximum         50 m           with conductor cross-section = 0.5 mm² maximum         250 m           type of connectable conductor cross-sections         22 mm² maximum         250 m           type of connectable conductor cross-sections         2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)           e for main current circuit solid         2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)           e for control circuit finely stranded with core end processing         1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)           e for control circuit finely stranded with core end processing         1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)		Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
height     275 mm       width     170 mm       depth     152 mm       required spacing with side-by-side mounting     10 mm       • forwards     0 mm       • backwards     0 mm       • downwards     75 mm       • at the side     5 mm       weight without packaging     2.3 kg       Connections/ Terminals       type of electrical connection     6 for main current circuit       • for ontrol circuit     screw-type terminals       wire length for thermistor connection     screw-type terminals       with conductor cross-section = 0.5 mm² maximum     50 m       • with conductor cross-section = 1.5 mm² maximum     250 m       • with conductor cross-section = 1.5 mm² maximum     250 m       • with conductor cross-section = 2.5 mm² maximum     250 m       • for main contacts     2x (1.0 2.5 mm²), 2x (2.5 10 mm²)       • for main contacts     2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)       • for AWG cables for main current circuit solid     2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)       • for control circuit finely stranded with core end processing     1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)       • for control circuit finely stranded with core end processing     1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)       • for control circuit finely stranded with core end processing     1x (0.5 2.5 mm²), 2x (0.5		
width     170 mm       depth     152 mm       required spacing with side-by-side mounting     10 mm       • forwards     0 mm       • backwards     0 mm       • downwards     75 mm       • at the side     5 mm       weight without packaging     2.3 kg       Connections/ Terminals       type of electrical connection     screw-type terminals       • for main current circuit     screw-type terminals       wire length for thermistor connection     with conductor cross-section = 0.5 mm² maximum     50 m       • with conductor cross-section = 1.5 mm² maximum     150 m       • with conductor cross-section = 2.5 mm² maximum     250 m       • for main contacts     - solid     2x (1.0 2.5 mm²), 2x (2.5 10 mm²)       - for main contacts     - solid     2x (1.0 2.5 mm²), 2x (2.5 10 mm²)       - for AWG cables for main current circuit solid     2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)       • for control circuit solid     1x (0.5 2.5 mm²), 2x (0.5 2.5 mm²)       • for control circuit finely stranded with core end processing     1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)       • for control circuit finely stranded with core end processing     1x (20 12), 2x (20 14)       • for control circuit finely stranded with core end processing     1x (20 12), 2x (20 14)	<u> </u>	Š
required spacing with side-by-side mounting  • forwards • backwards • upwards • downwards • at the side • formains  **eight without packaging  **connections/Termials  **type of electrical connection • for main current circuit • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • for main contacts • for AWG cables for main current circuit solid • for control circuit tinely stranded with core end processing • for control circuit tinely stranded with core end processing • for AWG cables for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid  **Time Time Time Time Time Time Time Time		
required spacing with side-by-side mounting  • forwards • backwards • upwards • downwards • at the side • the side • the side • to remain current circuit • with conductor cross-sections • with conductor cross-sections • for main contacts  - solid - finely stranded with core end processing • for control circuit finely stranded with core end processing • for control circuit finely stranded with core end processing • for AWG cables for control circuit finely stranded with core end processing • for AWG cables for control circuit finely stranded with core end processing • for AWG cables for control circuit finely stranded with core end processing • for AWG cables for control circuit finely stranded with core end processing • for AWG cables for control circuit solid • for AWG cables for control circuit solid • for AWG cables for control circuit finely stranded with core end processing • for AWG cables for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid • for control circuit solid		
• forwards • backwards • backwards • upwards • downwards • downwards • at the side • at the side • backwards • at the side • at the side • backwards • at the side • at the side • backwards • at the side • at the side • backwards • at the side • for main cursent circuit • for main current circuit • for control circuit • for control circuit • with conductor cross-section = 0.5 mm² maximum 250 m  type of connectable conductor cross-sections • for main contacts — solid — finely stranded with core end processing • for AWG cables for main current circuit solid  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) • for AWG cables for control circuit solid 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) • for AWG cables for control circuit solid 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) • for AWG cables for control circuit solid 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) • for AWG cables for control circuit solid 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	•	102 11111
backwards     upwards     upwards     downwards     at the side     so mm  weight without packaging  Connections/ Terminals  type of electrical connection     of or main current circuit     or control circuit  wire length for thermistor connection     with conductor cross-section = 0.5 mm² maximum     with conductor cross-section = 0.5 mm² maximum     with conductor cross-section = 2.5 mm² maximum     with conductor cross-section = 2.5 mm² maximum     with conductor cross-section = 2.5 mm² maximum     for main contacts		10 mm
<ul> <li>• upwards</li> <li>• downwards</li> <li>• at the side</li> <li>5 mm</li> <li>weight without packaging</li> <li>2.3 kg</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>• for control circuit</li> <li>• for control circuit</li> <li>• for control circuit</li> <li>• with conductor cross-section = 0.5 mm² maximum</li> <li>• with conductor cross-section = 1.5 mm² maximum</li> <li>• with conductor cross-section = 2.5 mm² maximum</li> <li>• with conductor cross-section = 2.5 mm² maximum</li> <li>• for main contacts</li> <li>- solid</li> <li>- solid</li> <li>- finely stranded with core end processing</li> <li>• for AWG cables for main current circuit solid</li> <li>type of connectable conductor cross-sections</li> <li>• for control circuit solid</li> <li>1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)</li> <li>ty (0.5 2.5 mm²), 2x (0.5 2.5 mm²)</li> <li>for control circuit finely stranded with core end processing</li> <li>• for control circuit finely stranded with core end processing</li> <li>• for AWG cables for control circuit solid</li> <li>1x (0.5 2.5 mm²), 2x (0.5 2.5 mm²)</li> <li>1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)</li> <li>1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)</li> <li>1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)</li> </ul>		
<ul> <li>downwards</li> <li>at the side</li> <li>5 mm</li> <li>weight without packaging</li> <li>2.3 kg</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for control circuit</li> <li>with conductor cross-section = 0.5 mm² maximum</li> <li>with conductor cross-section = 1.5 mm² maximum</li> <li>with conductor cross-section = 2.5 mm² maximum</li> <li>with conductor cross-section = 2.5 mm² maximum</li> <li>for main contacts</li> <li>solid</li> <li>- solid</li> <li>- finely stranded with core end processing</li> <li>for AWG cables for main current circuit solid</li> <li>for control circuit finely stranded with core end processing</li> <li>for control circuit finely stranded with core end processing</li> <li>for AWG cables for control circuit solid</li> <li>for Cables for control circuit solid</li> <li>for AWG cables for control circuit solid</li> <li>for Cables for control circuit solid</li></ul>		
• at the side 5 mm  weight without packaging 2.3 kg  Connections/ Terminals  type of electrical connection • for main current circuit screw-type terminals • for control circuit screw-type terminals  wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum 50 m • with conductor cross-section = 1.5 mm² maximum 150 m • with conductor cross-section = 2.5 mm² maximum 250 m  type of connectable conductor cross-sections • for main contacts — solid 2x (1.0 2.5 mm²), 2x (2.5 10 mm²) — finely stranded with core end processing 2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)  • for AWG cables for main current circuit solid 2x (16 12), 2x (14 8)  type of connectable conductor cross-sections • for control circuit solid 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) • for AWG cables for control circuit solid 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) • for AWG cables for control circuit solid 1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²) • for AWG cables for control circuit solid 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) • for AWG cables for control circuit solid 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	•	
weight without packaging 2.3 kg   Connections/ Terminals   type of electrical connection <ul> <li>for control circuit</li> <li>screw-type terminals</li> </ul> wire length for thermistor connection screw-type terminals   with conductor cross-section = 0.5 mm² maximum 50 m   with conductor cross-section = 1.5 mm² maximum 150 m   with conductor cross-section = 2.5 mm² maximum 250 m   type of connectable conductor cross-sections 2x (1.0 2.5 mm²), 2x (2.5 10 mm²)   — solid 2x (1.0 2.5 mm²), 2x (2.5 10 mm²)   — finely stranded with core end processing 2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)   • for AWG cables for main current circuit solid 2x (16 12), 2x (14 8)   type of connectable conductor cross-sections 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)   • for control circuit finely stranded with core end processing 1x (0.5 2.5 mm²), 2x (0.5 2.5 mm²)   • for AWG cables for control circuit solid 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)   wire length		
type of electrical connection  • for main current circuit  • for control circuit  • with conductor cross-section = 0.5 mm² maximum  • with conductor cross-section = 1.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  • for main contacts  — solid  — finely stranded with core end processing  • for AWG cables for main current circuit solid  type of connectable conductor cross-sections  • for control circuit solid  • for control circuit finely stranded with core end processing  • for AWG cables for control circuit solid  1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)  • for control circuit finely stranded with core end processing  • for AWG cables 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)		
type of electrical connection  • for main current circuit  • for control circuit  screw-type terminals  wire length for thermistor connection  • with conductor cross-section = 0.5 mm² maximum  • with conductor cross-section = 1.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  • for main contacts  - solid  - finely stranded with core end processing  • for AWG cables for main current circuit solid  type of connectable conductor cross-sections  • for control circuit solid  • for control circuit finely stranded with core end processing  • for control circuit finely stranded with core end processing  • for control circuit finely stranded with core end processing  • for AWG cables 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)		2.3 kg
• for main current circuit     • for control circuit     • for control circuit  wire length for thermistor connection     • with conductor cross-section = 0.5 mm² maximum     • with conductor cross-section = 1.5 mm² maximum     • with conductor cross-section = 2.5 mm² maximum     • with conductor cross-section = 2.5 mm² maximum     • with conductor cross-section = 2.5 mm² maximum     • for main contacts     — solid     — finely stranded with core end processing     • for AWG cables for main current circuit solid  type of connectable conductor cross-sections     • for control circuit solid     • for control circuit finely stranded with core end processing     • for control circuit finely stranded with core end processing     • for AWG cables for control circuit solid  type of control circuit finely stranded with core end processing     • for AWG cables for control circuit solid  type of control circuit finely stranded with core end processing     • for AWG cables for control circuit solid  type of control circuit solid  type of control circuit finely stranded with core end processing     • for AWG cables for control circuit solid  wire length		
<ul> <li>for control circuit</li> <li>wire length for thermistor connection</li> <li>with conductor cross-section = 0.5 mm² maximum</li> <li>with conductor cross-section = 1.5 mm² maximum</li> <li>with conductor cross-section = 2.5 mm² maximum</li> <li>with conductor cross-section = 2.5 mm² maximum</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts</li> <li>solid</li> <li>for AWG cables for main current circuit solid</li> <li>type of connectable conductor cross-sections</li> <li>for control circuit solid</li> <li>type of connectable conductor cross-sections</li> <li>for control circuit solid</li> <li>tx (0.5 4.0 mm²), 2x (2.5 6.0 mm²)</li> <li>tx (0.5 4.0 mm²), 2x (0.5 2.5 mm²)</li> <li>for control circuit finely stranded with core end processing</li> <li>for AWG cables for control circuit solid</li> <li>tx (0.5 4.0 mm²), 2x (0.5 2.5 mm²)</li> <li>tx (0.5 2.5 mm²), 2x (0.5 1.5 mm²)</li> <li>tx (0.5 2.5 mm²), 2x (0.5 1.5 mm²)</li> <li>tx (0.5 1.2), 2x (20 14)</li> </ul>		paraw two tarminals
wire length for thermistor connection  • with conductor cross-section = 0.5 mm² maximum  • with conductor cross-section = 1.5 mm² maximum  • with conductor cross-section = 2.5 mm² maximum  250 m  type of connectable conductor cross-sections  • for main contacts  - solid  - finely stranded with core end processing  • for AWG cables for main current circuit solid  type of connectable conductor cross-sections  • for control circuit solid  • for control circuit finely stranded with core end processing  • for AWG cables 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)		
<ul> <li>with conductor cross-section = 0.5 mm² maximum</li> <li>with conductor cross-section = 1.5 mm² maximum</li> <li>with conductor cross-section = 2.5 mm² maximum</li> <li>with conductor cross-section = 2.5 mm² maximum</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts</li> <li>— solid</li> <li>— solid</li> <li>— finely stranded with core end processing</li> <li>for AWG cables for main current circuit solid</li> <li>type of connectable conductor cross-sections</li> <li>for control circuit solid</li> <li>for control circuit finely stranded with core end processing</li> <li>for control circuit finely stranded with core end processing</li> <li>for AWG cables for control circuit solid</li> <li>1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)</li> <li>1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)</li> <li>for AWG cables for control circuit solid</li> <li>1x (20 12), 2x (20 14)</li> </ul> wire length		Screw-type terminals
<ul> <li>with conductor cross-section = 1.5 mm² maximum</li> <li>with conductor cross-section = 2.5 mm² maximum</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts</li> <li>— solid</li> <li>— finely stranded with core end processing</li> <li>for AWG cables for main current circuit solid</li> <li>type of connectable conductor cross-sections</li> <li>for control circuit solid</li> <li>for control circuit finely stranded with core end processing</li> <li>for control circuit finely stranded with core end processing</li> <li>for AWG cables for control circuit solid</li> <li>1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)</li> <li>for control circuit finely stranded with core end processing</li> <li>for AWG cables for control circuit solid</li> <li>1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)</li> <li>1x (20 12), 2x (20 14)</li> </ul>		50
<ul> <li>with conductor cross-section = 2.5 mm² maximum</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts</li> <li>— solid</li> <li>— finely stranded with core end processing</li> <li>for AWG cables for main current circuit solid</li> <li>type of connectable conductor cross-sections</li> <li>for control circuit solid</li> <li>for control circuit finely stranded with core end processing</li> <li>for AWG cables for control circuit solid</li> <li>1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)</li> <li>for control circuit finely stranded with core end processing</li> <li>for AWG cables for control circuit solid</li> <li>1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)</li> <li>1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)</li> <li>1x (20 12), 2x (20 14)</li> </ul>		
type of connectable conductor cross-sections  • for main contacts  — solid — finely stranded with core end processing • for AWG cables for main current circuit solid  type of connectable conductor cross-sections • for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables 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 (20 12), 2x (20 14)		
<ul> <li>for main contacts  — solid  — finely stranded with core end processing  of or AWG cables for main current circuit solid  type of connectable conductor cross-sections  of or control circuit solid  for control circuit finely stranded with core end processing  of or AWG cables 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 (20 12), 2x (20 14)</li> </ul>		250 M
<ul> <li>— solid</li> <li>— finely stranded with core end processing</li> <li>• for AWG cables for main current circuit solid</li> <li>type of connectable conductor cross-sections</li> <li>• for control circuit solid</li> <li>• for control circuit finely stranded with core end processing</li> <li>• for AWG cables for control circuit solid</li> <li>• for AWG cables for control ci</li></ul>	••	
- finely stranded with core end processing  • for AWG cables for main current circuit solid  2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)  2x (16 12), 2x (14 8)  type of connectable conductor cross-sections  • for control circuit solid  1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)  • for control circuit finely stranded with core end processing  • for AWG cables for control circuit solid  1x (20 12), 2x (20 14)  wire length		
<ul> <li>for AWG cables for main current circuit solid</li> <li>type of connectable conductor cross-sections</li> <li>for control circuit solid</li> <li>for control circuit finely stranded with core end processing</li> <li>for AWG cables for control circuit solid</li> <li>1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)</li> <li>1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)</li> <li>1x (20 12), 2x (20 14)</li> </ul>		
type of connectable conductor cross-sections  • for control circuit solid  • for control circuit finely stranded with core end processing  • for AWG cables 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)		
<ul> <li>for control circuit solid</li> <li>for control circuit finely stranded with core end processing</li> <li>for AWG cables for control circuit solid</li> </ul>		2x (16 12), 2x (14 8)
<ul> <li>for control circuit finely stranded with core end processing</li> <li>for AWG cables for control circuit solid</li> <li>wire length</li> <li>1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)</li> <li>1x (20 12), 2x (20 14)</li> </ul>	•	
• for AWG cables for control circuit solid 1x (20 12), 2x (20 14)  wire length	for control circuit solid	
wire length	• for control circuit finely stranded with core end processing	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
	for AWG cables for control circuit solid	1x (20 12), 2x (20 14)
	wire length	
<ul> <li>between soft starter and motor maximum</li> <li>800 m</li> </ul>	<ul> <li>between soft starter and motor maximum</li> </ul>	800 m
• at the digital inputs at DC maximum 1 000 m	at the digital inputs at DC maximum	1 000 m
tightening torque	tightening torque	



for main contacts with screw-type terminals     for auxiliary and control contacts with screw-type terminals  tightening torque [lbf-in]     for main contacts with screw-type terminals     for auxiliary and control contacts with screw-type terminals  Ambient conditions  installation altitude at height above sea level maximum ambient temperature	2 2.5 N·m 0.8 1.2 N·m 18 22 lbf·in 7 10.3 lbf·in
terminals  tightening torque [lbf-in]  • for main contacts with screw-type terminals  • for auxiliary and control contacts with screw-type terminals  Ambient conditions  installation altitude at height above sea level maximum	18 22 lbf-in
tightening torque [lbf-in]  for main contacts with screw-type terminals  for auxiliary and control contacts with screw-type terminals  Ambient conditions  installation altitude at height above sea level maximum	
for main contacts with screw-type terminals     for auxiliary and control contacts with screw-type terminals  Ambient conditions  installation altitude at height above sea level maximum	
for auxiliary and control contacts with screw-type terminals  Ambient conditions  installation altitude at height above sea level maximum	
terminals  Ambient conditions  installation altitude at height above sea level maximum	10.0 (2.1
installation altitude at height above sea level maximum	
ambient temperature	5 000 m; Derating as of 1000 m, see catalog
<ul><li>during operation</li></ul>	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
during storage and transport	-40 +80 °C
environmental category	
<ul> <li>during operation according to IEC 60721</li> </ul>	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2
during starting to IEO 00704	(sand must not get into the devices), 3M6
<ul> <li>during storage according to IEC 60721</li> </ul>	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
<ul> <li>during transport according to IEC 60721</li> </ul>	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
EMC emitted interference	acc. to IEC 60947-4-2: Class A
Communication/ Protocol	
communication module is supported	
PROFINET standard	Yes
PROFINET high-feature	Yes
• EtherNet/IP	Yes
Modbus RTU	Yes
Modbus TCP	Yes
PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
of circuit breaker	
— usable for Standard Faults at 460/480 V according	Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA
to UL	
<ul> <li>usable for High Faults at 460/480 V according to UL</li> </ul>	Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; Iq max = 65 kA
<ul> <li>usable for Standard Faults at 460/480 V at inside- delta circuit according to UL</li> </ul>	Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA
<ul> <li>usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; Iq max = 65 kA
usable for Standard Faults at 575/600 V according to UL	Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; Iq = 5 kA
usable for High Faults at 575/600 V at inside-delta circuit according to UL	Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; Iq max = 65 kA
<ul> <li>usable for Standard Faults at 575/600 V at inside- delta circuit according to UL</li> </ul>	Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA
of the fuse  Weekle for Standard Faulta up to F7F/600 V	Type: Class DVE / VE may FO A: Is = F I/A
— usable for Standard Faults up to 575/600 V according to UL  — usable for Lligh Faults up to 575/600 V according to	Type: Class RK5 / K5, max. 50 A; Iq = 5 kA
usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 50 A; Iq = 100 kA
— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL  — usable for Uish Faults at inside delta circuit up to	Type: Class RK5 / K5, max. 50 A; Iq = 5 kA
<ul> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Type: Class J / L, max. 50 A; Iq = 100 kA
operating power [hp] for 3-phase motors	
• at 200/208 V at 50 °C rated value	2 hp
• at 220/230 V at 50 °C rated value	3 hp
• at 460/480 V at 50 °C rated value	7.5 hp
• at 200/208 V at inside-delta circuit at 50 °C rated value	5 hp
• at 220/230 V at inside-delta circuit at 50 °C rated value	5 hp
• at 460/480 V at inside-delta circuit at 50 °C rated value	10 hp
contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
electromagnetic compatibility	acc. to IEC 60947-4-2
ATEX	



certificate of suitability	
• ATEX	Yes
• IECEx	Yes
<ul> <li>according to ATEX directive 2014/34/EU</li> </ul>	BVS 18 ATEX F 003 X
type of protection according to ATEX directive 2014/34/EU	II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb],II (2)D [Ex tb Db] [Ex pxb Db],I (M2) [Ex db Mb]
hardware fault tolerance according to IEC 61508 relating to ATEX	0
PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.008
PFHD with high demand rate according to EN 62061 relating to ATEX	5E-7 1/h
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX	SIL1
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	3 a

Certificates/ approvals

General Product Approval



Confirmation









**EMC** 

For use in hazardous locations

Declaration of Con-

**Test Certificates** 

Marine / Shipping







Type Test Certificates/Test Report





Marine / Shipping

other





Confirmation

## **Further information**

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RW5513-1HA04

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5513-1HA044} \\$ 

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW5513-1HA04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5513-1HA04&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RW5513-1HA04/char

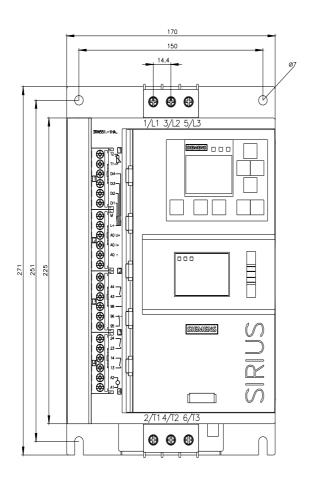
Characteristic: Installation altitude

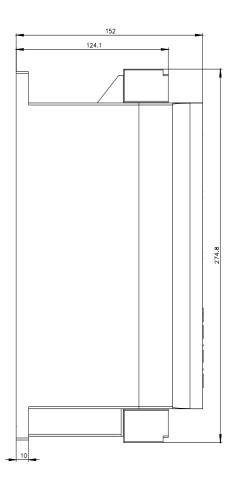
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5513-1HA04\&objecttype=14\&gridview=view1}$ 

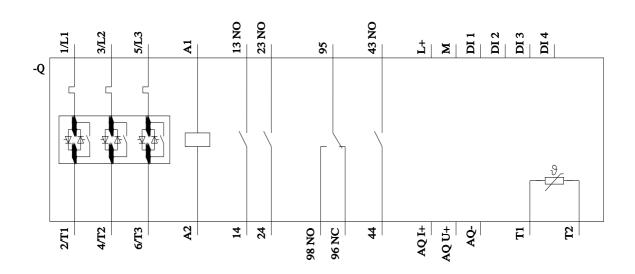
Simulation Tool for Soft Starters (STS)

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









11/7/2023



