SIEMENS

Data sheet 3RW5227-1AC04



SIRIUS soft starter 200-480 V 93 A, 24 V AC/DC Screw terminals Analog output

product brand name product category product designation product type designation manufacturer's article number

- of standard HMI module usable
- of high feature HMI module usable
- of communication module PROFINET standard usable
- of communication module PROFIBUS usable
- of communication module Modbus TCP usable
- of communication module Modbus RTU usable
- of communication module Ethernet/IP
- of circuit breaker usable at 400 V
- of circuit breaker usable at 500 V
- of circuit breaker usable at 400 V at inside-delta circuit
- of circuit breaker usable at 500 V at inside-delta circuit
- of the gG fuse usable up to 690 V
- of the gG fuse usable at inside-delta circuit up to 500 V
- \bullet 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

SIRIUS

Hybrid switching devices

Soft starter

3RW52

3RW5980-0HS00

3RW5980-0HF00

3RW5980-0CS00

3RW5980-0CP00

3RW5980-0CT00

3RW5980-0CR00

3RW5980-0CE00

3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 15 kA, CLASS 10

3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 10 kA, CLASS 10

3VA2220-7MN32-0AA0; Type of coordination 1, Iq = 15 kA, CLASS 10

3VA2220-7MN32-0AA0; Type of coordination 1, Iq = 10 kA, CLASS 10

3NA3136-6; Type of coordination 1, Iq = 65 kA

3NA3136-6; Type of coordination 1, Iq = 65 kA

3NE1224-0; Type of coordination 2, Iq = 65 kA

3NE4124; Type of coordination 2, Iq = 65 kA

General technical data

starting voltage [%] stopping voltage [%] start-up ramp time of soft starter current limiting value [%] adjustable certificate of suitability

- CE marking
- UL approval
- CSA approval

product component

- HMI-High Feature
- is supported HMI-Standard
- is supported HMI-High Feature

product feature integrated bypass contact system number of controlled phases

trip class

buffering time in the event of power failure

30 ... 100 %

50 %; non-adjustable

0 ... 20 s

130 ... 700 %

Yes

Yes

Yes

No

Yes

Yes

Yes

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
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 400 V
service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
 between main and auxiliary circuit 	600 V
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 according to IEC 60947-4-2	AC 53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	02/15/2018
product function	
ramp-up (soft starting)	Yes
• ramp-down (soft stop)	Yes
Soft Torque	Yes
adjustable current limitation	Yes
pump ramp down	Yes
intrinsic device protection	Yes
motor overload protection	Yes; Electronic motor overload protection
evaluation of thermistor motor protection	No V
• inside-delta circuit	Yes
• auto-RESET	Yes
• manual RESET	Yes
• remote reset	Yes; By turning off the control supply voltage Yes
communication function congrating management value display.	
operating measured value displayerror logbook	Yes; Only in conjunction with special accessories Yes; Only in conjunction with special accessories
via software parameterizable	No
via software parameterizable via software configurable	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard communication
• FIXOI IEIIEI UV	res, in connection with the rivor included communication
	module
	module Yes
firmware update removable terminal for control circuit	
• firmware update	Yes
firmware update removable terminal for control circuit	Yes Yes
 firmware update removable terminal for control circuit torque control 	Yes Yes No
 firmware update removable terminal for control circuit torque control 	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature
 firmware update removable terminal for control circuit torque control analog output 	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature
firmware update removable terminal for control circuit torque control analog output Power Electronics	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature
firmware update removable terminal for control circuit torque control analog output Power Electronics operational current	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)
firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)
• firmware update • removable terminal for control circuit • torque control • analog output Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value operational current at inside-delta circuit	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 93 A 82.5 A
• firmware update • removable terminal for control circuit • torque control • analog output Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 93 A 82.5 A
• firmware update • removable terminal for control circuit • torque control • analog output Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value operational current at inside-delta circuit	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 93 A 82.5 A 75.5 A
• firmware update • removable terminal for control circuit • torque control • analog output Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value operational current at inside-delta circuit • at 40 °C rated value	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 93 A 82.5 A 75.5 A
firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 93 A 82.5 A 75.5 A 161 A 143 A
firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 93 A 82.5 A 75.5 A 161 A 143 A 131 A 200 480 V
firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value or at 60 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value at inside-delta circuit rated value	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 93 A 82.5 A 75.5 A 161 A 143 A 131 A 200 480 V 200 480 V
firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value operating voltage rated value rated value rated value rated value relative negative tolerance of the operating voltage	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 93 A 82.5 A 75.5 A 161 A 143 A 131 A 200 480 V 200 480 V -15 %
firmware update removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 93 A 82.5 A 75.5 A 161 A 143 A 131 A 200 480 V 200 480 V -15 % 10 %
firmware update removable terminal for control circuit torque control analog output Power Electronics operational current	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 93 A 82.5 A 75.5 A 161 A 143 A 131 A 200 480 V 200 480 V -15 %
firmware update removable terminal for control circuit torque control analog output Power Electronics operational current	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 93 A 82.5 A 75.5 A 161 A 143 A 131 A 200 480 V 200 480 V -15 % 10 %
firmware update removable terminal for control circuit torque control analog output Power Electronics operational current	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 93 A 82.5 A 75.5 A 161 A 143 A 131 A 200 480 V 200 480 V -15 % 10 % -15 %
firmware update removable terminal for control circuit torque control analog output Power Electronics operational current	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 93 A 82.5 A 75.5 A 161 A 143 A 131 A 200 480 V 200 480 V -15 % 10 % -15 %
• firmware update • removable terminal for control circuit • torque control • analog output Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value • at 60 °C rated value • at 40 °C rated value • at 40 °C rated value • at 50 °C rated value • at 50 °C rated value • at 50 °C rated value • at 60 °C rated value • at 60 °C rated value • at inside-delta circuit rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 93 A 82.5 A 75.5 A 161 A 143 A 131 A 200 480 V 200 480 V -15 % 10 % -15 % 10 %
• firmware update • removable terminal for control circuit • torque control • analog output Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value operational current at inside-delta circuit • at 40 °C rated value • at 50 °C rated value • at 50 °C rated value • at 60 °C rated value • at 60 °C rated value • at 60 °C rated value • at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 93 A 82.5 A 75.5 A 161 A 143 A 131 A 200 480 V 200 480 V -15 % 10 % -15 % 10 % 22 kW 45 kW
• firmware update • removable terminal for control circuit • torque control • analog output Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value operational current at inside-delta circuit • at 40 °C rated value • at 50 °C rated value • at 50 °C rated value • at 60 °C rated value • at 60 °C rated value • at 60 °C rated value • at inside-delta circuit rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value • at 400 V at 40 °C rated value	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 93 A 82.5 A 75.5 A 161 A 143 A 131 A 200 480 V 200 480 V -15 % 10 % -15 % 10 % 22 kW 45 kW 45 kW
• firmware update • removable terminal for control circuit • torque control • analog output Power Electronics operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value operational current at inside-delta circuit • at 40 °C rated value • at 50 °C rated value • at 50 °C rated value • at 60 °C rated value • at 60 °C rated value • at 60 °C rated value • at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value	Yes Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 93 A 82.5 A 75.5 A 161 A 143 A 131 A 200 480 V 200 480 V -15 % 10 % -15 % 10 % 22 kW 45 kW

Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
adjustable motor current	
 at rotary coding switch on switch position 1 	40.5 A
 at rotary coding switch on switch position 2 	44 A
 at rotary coding switch on switch position 3 	47.5 A
 at rotary coding switch on switch position 4 	51 A
at rotary coding switch on switch position 5	54.5 A
 at rotary coding switch on switch position 6 	58 A
at rotary coding switch on switch position 7 at rotary coding switch on switch position 9	61.5 A
at rotary coding switch on switch position 8 at rotary coding switch on switch position 0.	65 A 68.5 A
 at rotary coding switch on switch position 9 at rotary coding switch on switch position 10 	72 A
at rotary coding switch on switch position 11 at rotary coding switch on switch position 11	75.5 A
at rotary coding switch on switch position 12	79 A
at rotary coding switch on switch position 13	82.5 A
at rotary coding switch on switch position 14	86 A
at rotary coding switch on switch position 15	89.5 A
at rotary coding switch on switch position 16	93 A
• minimum	40.5 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	70.1 A
 for inside-delta circuit at rotary coding switch on switch position 2 	76.2 A
 for inside-delta circuit at rotary coding switch on switch position 3 	82.3 A
 for inside-delta circuit at rotary coding switch on switch position 4 	88.3 A
 for inside-delta circuit at rotary coding switch on switch position 5 	94.4 A
 for inside-delta circuit at rotary coding switch on switch position 6 	100 A
 for inside-delta circuit at rotary coding switch on switch position 7 	107 A
 for inside-delta circuit at rotary coding switch on switch position 8 for inside-delta circuit at rotary coding switch on 	113 A
ior inside-delta circuit at rotary coding switch on switch position 9 for inside-delta circuit at rotary coding switch on	119 A 125 A
switch position 10 • for inside-delta circuit at rotary coding switch on	131 A
switch position 11 • for inside-delta circuit at rotary coding switch on	137 A
switch position 12 • for inside-delta circuit at rotary coding switch on	143 A
switch position 13 • for inside-delta circuit at rotary coding switch on	149 A
switch position 14for inside-delta circuit at rotary coding switch on	155 A
switch position 15for inside-delta circuit at rotary coding switch on	161 A
switch position 16	70.4.0
at inside-delta circuit minimum minimum load [9/1]	70.1 A
minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC • at 40 °C after startup	40 W
• at 50 °C after startup	37 W
• at 60 °C after startup	35 W
power loss [W] at AC at current limitation 350 %	
at 40 °C during startup	1 270 W
at 50 °C during startup	1 077 W
at 60 °C during startup	959 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	

* at 60 Hz rated value * at 60 Hz rated value relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply voltage * at 0C at 40		
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voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz rotting frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply voltage ** at DC rated value ** at DC rated value ** at DC rated value holding current in bypass operation rated value holding current in bypass operation rated value maximum duration of inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage maximum duration of supply voltage **A gG flux (cu=1 kA), 6. A quick-acting flux (cu=1 kA), C1 miniature circus breaker (cu= 600 A), C6 miniature circuit breaker (cu= 300 A), is not part of scope of supply **Inputs/ Outputs **Inputs/ Outputs **A gG flux (cu=1 kA), 6. A quick-acting flux (cu=1 kA), C1 miniature circus breaker (cu= 600 A), C6 miniature circuit breaker (cu= 600 A), C6 mini	 at 60 Hz rated value 	24 V
voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative negative tolerance of the control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply voltage at CC at 30 Hz at CC 10 AC 30		-20 %
relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage requency control supply voltage a tolerance of the control supply voltage and tolerance of the control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit design of short-circuit protection for control circuit and the protection for control circuit and the protection of the tolerance of digital inputs and the protection of the protection for control circuit and the protection of the protect		20 %
voltage at AC at 50 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply voltage a at DC raded value relative negative tolerance of the control supply voltage at CC relative positive tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC control supply current in standby mode rated value innush current peak at application of control supply voltage at DC control supply current in standby mode rated value innush current peak at application of control supply voltage at DC control supply current peak at application of control supply voltage at DC control supply current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit ### Ag G luse ([cu=1 kA), 6 A quick-acting fuse ([cu=1 kA), C1 miniature circuit breaker ([cu=600 A), C6 miniature circuit breaker ([cu=300 A); is not part of scope of supply ### Institution of miniature circuit breaker ([cu=300 A); is not part of scope of supply ### Institution of miniature circuit breaker ([cu=300 A); is not part of scope of supply ### Institution of miniature circuit breaker ([cu=300 A); is not part of scope of supply ### Institution of miniature circuit breaker ([cu=300 A); is not part of scope of supply ### Institution of miniature circuit breaker ([cu=300 A); is not part of scope of supply ### Institution of miniature circuit breaker ([cu=4 kA), 6 A quick-acting fuse ([cu=1 kA), C1 miniature circuit breaker ([cu=600 A), C6 miniature circuit breaker ([cu=300 A), is not part of scope of supply ### Institution of miniature circuit breaker ([cu=600 A), C6		-20 %
control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply voltage • at DC rated value relative negative tolerance of the control supply voltage at DC relative negative tolerance of the control supply voltage at DC relative negative tolerance of the control supply voltage at DC control supply current in standby mode rated value holding current peak at application of control supply voltage at DC control supply current peak at application of control supply voltage at DC duration of injusts current peak at application of control supply voltage maximum duration of injusts current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit remains a protection design of abort-circuit protection for control circuit remains a protection design of abort-circuit protection for control circuit remains a protection design of abort-circuit protection for control circuit remains a protection design of abort-circuit protection for control circuit remains a protection for control c	relative positive tolerance of the control supply	20 %
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Inputs/ Outputs Inputs/ Output Inputs/	5 .	
Inputs/ Outputs number of digital inputs number of digital outputs • onto parameterizable digital output version number of analog 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 r	design of short-circuit protection for control circuit	
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height width depth 185 mm 203 mm required spacing with side-by-side mounting • forwards 100 mm • backwards 0 mm • downwards 1000 mm • downwards 75 mm • at the side 5 mm weight without packaging 6.9 kg Connections/ Terminals type of electrical connection • for main current circuit 5 crownto circuit 6 connection 5 crownto circuit 6 connection 5 crownto circuit 6 connection 6 for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front clamping point finely stranded with core end processing	mounting position	
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type of electrical connection • for main current circuit • for control circuit • for connection bar maximum type of connectable conductor cross-sections • for main contacts for box terminal using the front clamping point solid • for main contacts for box terminal using the front clamping point finely stranded with core end processing type of electrical connection box terminal screw-type terminals 25 mm 1x (2.5 16 mm²) 1x (2.5 50 mm²)		
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clamping point solid • for main contacts for box terminal using the front clamping point finely stranded with core end processing 1x (2.5 50 mm²)	2.	
clamping point finely stranded with core end processing		1x (2.5 16 mm ²)
		1x (2.5 16 mm²)
	 clamping point solid for main contacts for box terminal using the front clamping point finely stranded with core end 	

alamning naint atranded	
clamping point stranded • at AWG cables for main contacts for box terminal	1, (10 2/0)
using the front clamping point	1x (10 2/0)
for main contacts for box terminal using the back clamping point solid	1x (2.5 16 mm²)
at AWG cables for main contacts for box terminal using the back clamping point	1x (10 2/0)
 for main contacts for box terminal using both clamping points solid 	2x (2.5 16 mm²)
 for main contacts for box terminal using both clamping points finely stranded with core end processing 	2x (2.5 35 mm²)
 for main contacts for box terminal using both clamping points stranded 	2x (6 16 mm²), 2x (10 50 mm²)
 for main contacts for box terminal using the back clamping point finely stranded with core end processing 	1x (2.5 50 mm²)
 for main contacts for box terminal using the back clamping point stranded 	1x (10 70 mm²)
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 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
processing	
 at AWG cables for control circuit solid 	1x (20 12), 2x (20 14)
wire length	
between soft starter and motor maximum	800 m
at the digital inputs at AC maximum	100 m
at the digital inputs at DC maximum	1 000 m
tightening torque	45 011
for main contacts with screw-type terminals	4.5 6 N·m
 for auxiliary and control contacts with screw-type terminals 	0.8 1.2 N·m
tightening torque [lbf·in]	
for main contacts with screw-type terminals	40 53 lbf·in
for auxiliary and control contacts with screw-type terminals	7 10.3 lbf·in
Ambient conditions	
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
ambient temperature	5 000 m, Derating as of 1000 m, see catalog
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or
- during operation	above
 during storage and transport 	-40 +80 °C
environmental category	
 during operation according to IEC 60721 	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
 during storage according to IEC 60721 	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
 during transport according to IEC 60721 	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
EMC emitted interference	acc. to IEC 60947-4-2: Class A
Communication/ Protocol	
communication module is supported	
 PROFINET standard 	
	Yes
• EtherNet/IP	Yes Yes
EtherNet/IPModbus RTUModbus TCP	Yes
EtherNet/IPModbus RTU	Yes Yes
EtherNet/IPModbus RTUModbus TCP	Yes Yes Yes
EtherNet/IPModbus RTUModbus TCPPROFIBUS	Yes Yes Yes
 EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings 	Yes Yes Yes
EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number	Yes Yes Yes
EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker	Yes Yes Yes Yes Yes
EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according	Yes Yes Yes Yes Yes
EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL	Yes Yes Yes Yes Yes Siemens type: 3VA51, max. 125 A; lq = 10 kA Siemens type: 3VA51, max. 125 A; lq max = 65 kA
EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V at	Yes Yes Yes Yes Yes Siemens type: 3VA51, max. 125 A; lq = 10 kA
EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL	Yes Yes Yes Yes Yes Siemens type: 3VA51, max. 125 A; lq = 10 kA Siemens type: 3VA51, max. 125 A; lq max = 65 kA

— usable for Standard Faults at 575/600 V according to UL

— usable for Standard Faults at 575/600 V at inside-delta circuit according to UL $\,$

of the fuse

- usable for Standard Faults up to 575/600 V according to UL $\,$
- usable for High Faults up to 575/600 V according to UL
- usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL $\,$
- usable for High Faults at inside-delta circuit up to 575/600 V according to UL

operating power [hp] for 3-phase motors

- at 200/208 V at 50 °C rated value
- at 220/230 V at 50 °C rated value
- at 460/480 V at 50 °C rated value
- at 200/208 V at inside-delta circuit at 50 °C rated value
- \bullet at 220/230 V at inside-delta circuit at 50 $^{\circ}\text{C}$ rated value
- at 460/480 V at inside-delta circuit at 50 °C rated value

contact rating of auxiliary contacts according to UL

Siemens type: 3VA51, max. 125 A; Iq = 10 kA

Siemens type: 3VA51, max. 125 A; Iq = 10 kA

Type: Class RK5 / K5, max. 300 A; Iq = 10 kA

Type: Class J / L, max. 250 A; Iq = 100 kA

Type: Class RK5 / K5, max. 300 A; Iq = 10 kA

Type: Class J / L, max. 250 A; Iq = 100 kA

25 hp

30 hp

60 hp

40 hp

50 hp

100 hp

R300-B300

Safety related data

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529 electromagnetic compatibility

IP00; IP20 with cover

finger-safe, for vertical contact from the front with cover in accordance with IEC 60947-4-2

Certificates/ approvals

General Product Approval

EMC





Confirmation







Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

other



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=3RW5227-1AC04

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5227-1AC04}$

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RW5227-1AC04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RW5227-1AC04&lang=en

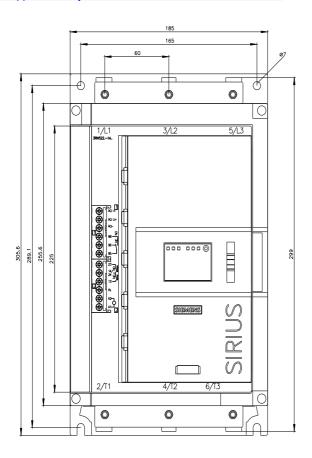
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5227-1AC04/char

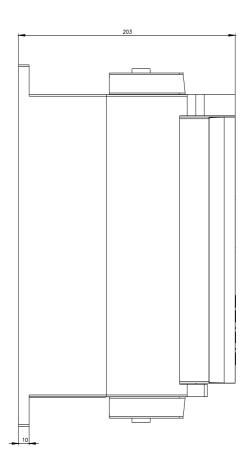
Characteristic: Installation altitude

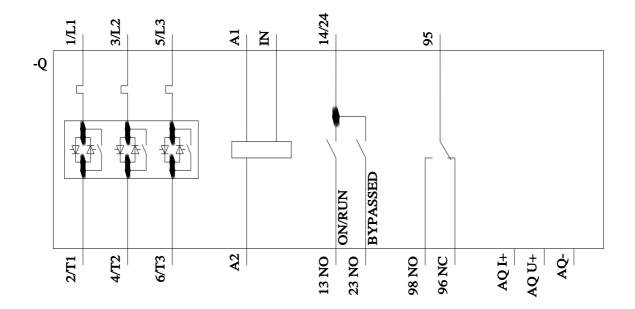
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5227-1AC04&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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