# **SIEMENS**

Data sheet 3RW5226-1AC04



SIRIUS soft starter 200-480 V 77 A, 24 V AC/DC Screw terminals Analog output

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW52
manufacturer's article number	
<ul> <li>of standard HMI module usable</li> </ul>	3RW5980-0HS00
of high feature HMI module usable	3RW5980-0HF00
<ul> <li>of communication module PROFINET standard usable</li> </ul>	3RW5980-0CS00
<ul> <li>of communication module PROFIBUS usable</li> </ul>	3RW5980-0CP00
<ul> <li>of communication module Modbus TCP usable</li> </ul>	3RW5980-0CT00
<ul> <li>of communication module Modbus RTU usable</li> </ul>	3RW5980-0CR00
<ul> <li>of communication module Ethernet/IP</li> </ul>	3RW5980-0CE00
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3VA2216-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3132-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	3NA3132-6; 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>	3NE1224-0: Type of coordination 2, Iq = 65 kA
• of back-up R fuse link for semiconductor protection usable up to 690 V	3NE8024-1; Type of coordination 2, Iq = 65 kA

General technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 50 %
start-up ramp time of soft starter	0 20 s
current limiting value [%] adjustable	130 700 %
certificate of suitability	
CE marking	Yes
UL approval	Yes
CSA approval	Yes
product component	
<ul> <li>HMI-High Feature</li> </ul>	No
<ul> <li>is supported HMI-Standard</li> </ul>	Yes
is supported HMI-High Feature	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3

trin class	CLASS 10A (default) / 10E / 20E; and to IEC 60047 4.2
trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2
buffering time in the event of power failure     or main current circuit	100 ms
for control circuit	100 ms
	600 V
insulation voltage rated value	
degree of pollution	3, acc. to IEC 60947-4-2 6 kV
impulse voltage rated value	1 400 V
blocking voltage of the thyristor maximum service factor	
	1 6 kV
surge voltage resistance rated value	O KV
maximum permissible voltage for safe isolation  • between main and auxiliary circuit	600 V
shock resistance	
vibration resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
	15 mm to 6 Hz; 2g to 500 Hz AC 53a
utilization category acc. to IEC 60947-4-2	
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	15.02.2018
product function	Voc
• ramp down (soft stop)	Yes Yes
• ramp-down (soft stop)	
Soft Torque     adjustable current limitation	Yes
adjustable current limitation	Yes
pump ramp down     intrincic device protection	Yes Yes
intrinsic device protection     meter everlead protection	
<ul><li>motor overload protection</li><li>evaluation of thermistor motor protection</li></ul>	Yes; Electronic motor overload protection No
evaluation of thermistor motor protection     inside-delta circuit	Yes
• auto-RESET	Yes
• manual RESET	Yes
remote reset	Yes; By turning off the control supply voltage
communication function     congreting management value display.	Yes
operating measured value display	Yes; Only in conjunction with special accessories
error logbook     via software peremeterizable	Yes; Only in conjunction with special accessories  No
via software parameterizable	Yes
<ul><li>via software configurable</li><li>PROFlenergy</li></ul>	Yes; in connection with the PROFINET Standard communication
• FROFieliergy	module
firmware update	Yes
removable terminal for control circuit	Yes
• torque control	No
analog output	Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature
	HMI)
Power Electronics	
operational current	
• at 40 °C rated value	77 A
• at 50 °C rated value	68 A
at 60 °C rated value	62 A
operational current at inside-delta circuit	
• at 40 °C rated value	133 A
• at 50 °C rated value	118 A
at 60 °C rated value	107 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	40.0/
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	

a (2.30 V at Inside-deta circuit at 40 °C rated value at 40 OV at 10 °C rated value bright inside deta circuit at 40 °C rated value Coparating frequency 7 rated value Coparating frequency 10 % Coparating frequency 10 % Coparating frequency	-t 000 V -t 40 %0t-dl	00 144
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adjustable motor current  for inside-delta circuit at rotary coding switch on switch position 1  for inside-delta circuit at rotary coding switch on switch position 2  for inside-delta circuit at rotary coding switch on switch position 2  for inside-delta circuit at rotary coding switch on switch position 3  for inside-delta circuit at rotary coding switch on switch position 3  for inside-delta circuit at rotary coding switch on switch position 4  for inside-delta circuit at rotary coding switch on switch position 6  for inside-delta circuit at rotary coding switch on switch position 6  for inside-delta circuit at rotary coding switch on switch position 6  for inside-delta circuit at rotary coding switch on switch position 7  for inside-delta circuit at rotary coding switch on switch position 8  for inside-delta circuit at rotary coding switch on switch position 8  for inside-delta circuit at rotary coding switch on switch position 9  for inside-delta circuit at rotary coding switch on switch position 10  for inside-delta circuit at rotary coding switch on switch position 11  for inside-delta circuit at rotary coding switch on switch position 12  for inside-delta circuit at rotary coding switch on switch position 12  for inside-delta circuit at rotary coding switch on switch position 14  for inside-delta circuit at rotary coding switch on switch position 14  for inside-delta circuit at rotary coding switch on switch position 14  for inside-delta circuit at rotary coding switch on switch position 14  for inside-delta circuit at rotary coding switch on switch position 14  for inside-delta circuit at rotary coding switch on switch position 14  for inside-delta circuit at rotary coding switch on switch position 14  for inside-delta circuit at rotary coding switch on switch position 14  for inside-delta circuit at rotary coding switch on switch position 14  for inside-delta circuit at rotary coding switch on switch position 14  for inside-delta circuit at rotary coding switch on switch position 14  for inside-delta	·	74 A
adjustable motor current  • for inside-delta circuit at rotary coding switch on switch position 1  • for inside-delta circuit at rotary coding switch on switch position 2  • for inside-delta circuit at rotary coding switch on switch position 3  • for inside-delta circuit at rotary coding switch on switch position 3  • for inside-delta circuit at rotary coding switch on switch position 4  • for inside-delta circuit at rotary coding switch on switch position 5  • for inside-delta circuit at rotary coding switch on switch position 6  • for inside-delta circuit at rotary coding switch on switch position 7  • for inside-delta circuit at rotary coding switch on switch position 8  • for inside-delta circuit at rotary coding switch on switch position 9  • for inside-delta circuit at rotary coding switch on switch position 9  • for inside-delta circuit at rotary coding switch on switch position 10  • for inside-delta circuit at rotary coding switch on switch position 11  • for inside-delta circuit at rotary coding switch on switch position 12  • for inside-delta circuit at rotary coding switch on switch position 13  • for inside-delta circuit at rotary coding switch on switch position 13  • for inside-delta circuit at rotary coding switch on switch position 14  • for inside-delta circuit at rotary coding switch on switch position 15  • for inside-delta circuit at rotary coding switch on switch position 15  • for inside-delta circuit at rotary coding switch on switch position 15  • for inside-delta circuit at rotary coding switch on switch position 15  • for inside-delta circuit at rotary coding switch on switch position 15  • for inside-delta circuit at rotary coding switch on switch position 16  • at inside-delta circuit at rotary coding switch on switch position 16  • at the form inside circuit at rotary coding switch on switch position 16  • at the form inside circuit at rotary coding switch on switch position 15  • for inside-delta circuit at rotary coding switch on switch position 15  • for inside-delta circuit at	<ul> <li>at rotary coding switch on switch position 16</li> </ul>	77 A
• for inside-delta circuit at rotary coding switch on switch position 2 • for inside-delta circuit at rotary coding switch on switch position 2 • for inside-delta circuit at rotary coding switch on switch position 3 • for inside-delta circuit at rotary coding switch on switch position 3 • for inside-delta circuit at rotary coding switch on switch position 5 • for inside-delta circuit at rotary coding switch on switch position 6 • for inside-delta circuit at rotary coding switch on switch position 6 • for inside-delta circuit at rotary coding switch on switch position 7 • for inside-delta circuit at rotary coding switch on switch position 7 • for inside-delta circuit at rotary coding switch on switch position 9 • for inside-delta circuit at rotary coding switch on switch position 10 • for inside-delta circuit at rotary coding switch on switch position 10 • for inside-delta circuit at rotary coding switch on switch position 11 • for inside-delta circuit at rotary coding switch on switch position 11 • for inside-delta circuit at rotary coding switch on switch position 12 • for inside-delta circuit at rotary coding switch on switch position 13 • for inside-delta circuit at rotary coding switch on switch position 14 • for inside-delta circuit at rotary coding switch on switch position 15 • for inside-delta circuit at rotary coding switch on switch position 15 • for inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta ci	• minimum	32 A
witch position 1  • for inside-delta circuit at rotary coding switch on switch position 2  • for inside-delta circuit at rotary coding switch on switch position 3  • for inside-delta circuit at rotary coding switch on switch position 4  • for inside-delta circuit at rotary coding switch on switch position 5  • for inside-delta circuit at rotary coding switch on switch position 6  • for inside-delta circuit at rotary coding switch on switch position 7  • for inside-delta circuit at rotary coding switch on switch position 7  • for inside-delta circuit at rotary coding switch on switch position 8  • for inside-delta circuit at rotary coding switch on switch position 8  • for inside-delta circuit at rotary coding switch on switch position 9  • for inside-delta circuit at rotary coding switch on switch position 10  • for inside-delta circuit at rotary coding switch on switch position 11  • for inside-delta circuit at rotary coding switch on switch position 12  • for inside-delta circuit at rotary coding switch on switch position 12  • for inside-delta circuit at rotary coding switch on switch position 13  • for inside-delta circuit at rotary coding switch on switch position 14  • for inside-delta circuit at rotary coding switch on switch position 15  • for inside-delta circuit at rotary coding switch on switch position 16  • at inside-delta circuit at rotary coding switch on switch position 16  • at inside-delta circuit at rotary coding switch on switch position 16  • at inside-delta circuit minimum  55.4 A  minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup	adjustable motor current	
• for inside-delta circuit at rotary coding switch on switch position 3  • for inside-delta circuit at rotary coding switch on switch position 4  • for inside-delta circuit at rotary coding switch on switch position 5  • for inside-delta circuit at rotary coding switch on switch position 6  • for inside-delta circuit at rotary coding switch on switch position 6  • for inside-delta circuit at rotary coding switch on switch position 7  • for inside-delta circuit at rotary coding switch on switch position 8  • for inside-delta circuit at rotary coding switch on switch position 9  • for inside-delta circuit at rotary coding switch on switch position 10  • for inside-delta circuit at rotary coding switch on switch position 11  • for inside-delta circuit at rotary coding switch on switch position 12  • for inside-delta circuit at rotary coding switch on switch position 13  • for inside-delta circuit at rotary coding switch on switch position 13  • for inside-delta circuit at rotary coding switch on switch position 13  • for inside-delta circuit at rotary coding switch on switch position 14  • for inside-delta circuit at rotary coding switch on switch position 16  • at inside-delta circuit at rotary coding switch on switch position 16  • at inside-delta circuit at rotary coding switch on switch position 16  • at inside-delta circuit at rotary coding switch on switch position 16  • at inside-delta circuit at rotary coding switch on switch position 16  • at inside-delta circuit at rotary coding switch on switch position 16  • at inside-delta circuit at rotary coding switch on switch position 16  • at of cafter startup  55.4 A  minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup		55.4 A
• for inside-delta circuit at rotary coding switch on switch position 4 • for inside-delta circuit at rotary coding switch on switch position 5 • for inside-delta circuit at rotary coding switch on switch position 6 • for inside-delta circuit at rotary coding switch on switch position 7 • for inside-delta circuit at rotary coding switch on switch position 8 • for inside-delta circuit at rotary coding switch on switch position 8 • for inside-delta circuit at rotary coding switch on switch position 9 • for inside-delta circuit at rotary coding switch on switch position 10 • for inside-delta circuit at rotary coding switch on switch position 11 • for inside-delta circuit at rotary coding switch on switch position 12 • for inside-delta circuit at rotary coding switch on switch position 13 • for inside-delta circuit at rotary coding switch on switch position 14 • for inside-delta circuit at rotary coding switch on switch position 14 • for inside-delta circuit at rotary coding switch on switch position 15 • for inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit minimum  55.4 A  minimum load [%]  power loss [W] for rated value of the current at AC • at 40 °C after startup		60.6 A
switch position 4  • for inside-delta circuit at rotary coding switch on switch position 5  • for inside-delta circuit at rotary coding switch on switch position 6  • for inside-delta circuit at rotary coding switch on switch position 7  • for inside-delta circuit at rotary coding switch on switch position 8  • for inside-delta circuit at rotary coding switch on switch position 8  • for inside-delta circuit at rotary coding switch on switch position 9  • for inside-delta circuit at rotary coding switch on switch position 10  • for inside-delta circuit at rotary coding switch on switch position 11  • for inside-delta circuit at rotary coding switch on switch position 12  • for inside-delta circuit at rotary coding switch on switch position 13  • for inside-delta circuit at rotary coding switch on switch position 14  • for inside-delta circuit at rotary coding switch on switch position 14  • for inside-delta circuit at rotary coding switch on switch position 15  • for inside-delta circuit at rotary coding switch on switch position 16  • at inside-delta circuit at rotary coding switch on switch position 16  • at tinside-delta circuit minimum  55.4 A  minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup  76.2 A  81.4 A  88.6 A  88.6 A  88.6 A  88.6 A  88.6 A  88.7 A  88.8 A  88.9 A  89.7 A  89.7 A  89.7 A  89.8 A  89.7 A  89.8 A		65.8 A
switch position 5  • for inside-delta circuit at rotary coding switch on switch position 6  • for inside-delta circuit at rotary coding switch on switch position 7  • for inside-delta circuit at rotary coding switch on switch position 8  • for inside-delta circuit at rotary coding switch on switch position 8  • for inside-delta circuit at rotary coding switch on switch position 9  • for inside-delta circuit at rotary coding switch on switch position 10  • for inside-delta circuit at rotary coding switch on switch position 11  • for inside-delta circuit at rotary coding switch on switch position 12  • for inside-delta circuit at rotary coding switch on switch position 12  • for inside-delta circuit at rotary coding switch on switch position 13  • for inside-delta circuit at rotary coding switch on switch position 14  • for inside-delta circuit at rotary coding switch on switch position 15  • for inside-delta circuit at rotary coding switch on switch position 15  • for inside-delta circuit at rotary coding switch on switch position 16  • at inside-delta circuit at rotary coding switch on switch position 16  • at inside-delta circuit minimum   55.4 A  minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup   81.4 A  86.6 A  86.6 A  86.6 A  81.4 A  86.6 A  86.6 A  91.8	switch position 4	
switch position 6  • for inside-delta circuit at rotary coding switch on switch position 7  • for inside-delta circuit at rotary coding switch on switch position 8  • for inside-delta circuit at rotary coding switch on switch position 9  • for inside-delta circuit at rotary coding switch on switch position 10  • for inside-delta circuit at rotary coding switch on switch position 11  • for inside-delta circuit at rotary coding switch on switch position 11  • for inside-delta circuit at rotary coding switch on switch position 12  • for inside-delta circuit at rotary coding switch on switch position 13  • for inside-delta circuit at rotary coding switch on switch position 13  • for inside-delta circuit at rotary coding switch on switch position 14  • for inside-delta circuit at rotary coding switch on switch position 15  • for inside-delta circuit at rotary coding switch on switch position 15  • for inside-delta circuit at rotary coding switch on switch position 15  • at inside-delta circuit minimum  55.4 A  minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup  86.6 A  86.6 A  86.6 A  86.6 A  91.8 A  86.6 A  91.8 A  91.8 A  91.8 A  91.8 A  91.8 A  92.8 A  93.8 A  94.9 A  95.8 A  94.9 A  95.8 A  95.8 Relative to smallest settable le	switch position 5	
switch position 7  • for inside-delta circuit at rotary coding switch on switch position 8  • for inside-delta circuit at rotary coding switch on switch position 9  • for inside-delta circuit at rotary coding switch on switch position 10  • for inside-delta circuit at rotary coding switch on switch position 11  • for inside-delta circuit at rotary coding switch on switch position 12  • for inside-delta circuit at rotary coding switch on switch position 12  • for inside-delta circuit at rotary coding switch on switch position 13  • for inside-delta circuit at rotary coding switch on switch position 14  • for inside-delta circuit at rotary coding switch on switch position 14  • for inside-delta circuit at rotary coding switch on switch position 15  • for inside-delta circuit at rotary coding switch on switch position 16  • at inside-delta circuit at rotary coding switch on switch position 16  • at inside-delta circuit minimum  55.4 A  minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup  91.8 A  97. A  102. A  113. A  113. A  123. A  123. A  124. A  125. Relative to smallest settable le	switch position 6	
switch position 8  for inside-delta circuit at rotary coding switch on switch position 10  for inside-delta circuit at rotary coding switch on switch position 10  for inside-delta circuit at rotary coding switch on switch position 11  for inside-delta circuit at rotary coding switch on switch position 12  for inside-delta circuit at rotary coding switch on switch position 13  for inside-delta circuit at rotary coding switch on switch position 13  for inside-delta circuit at rotary coding switch on switch position 14  for inside-delta circuit at rotary coding switch on switch position 15  for inside-delta circuit at rotary coding switch on switch position 15  for inside-delta circuit at rotary coding switch on switch position 16  at inside-delta circuit minimum  55.4 A  minimum load [%]  power loss [W] for rated value of the current at AC  at 40 °C after startup  97 A  102 A  102 A  113 A  113 A  113 A  123 A  128 A  128 A  133 A  133 A  155 %; Relative to smallest settable le	switch position 7	
switch position 9  • for inside-delta circuit at rotary coding switch on switch position 10  • for inside-delta circuit at rotary coding switch on switch position 11  • for inside-delta circuit at rotary coding switch on switch position 12  • for inside-delta circuit at rotary coding switch on switch position 13  • for inside-delta circuit at rotary coding switch on switch position 14  • for inside-delta circuit at rotary coding switch on switch position 15  • for inside-delta circuit at rotary coding switch on switch position 15  • for inside-delta circuit at rotary coding switch on switch position 16  • at inside-delta circuit minimum  55.4 A  minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup  102 A  107 A  113 A  113 A  123 A  128 A  128 A  133 A  55.4 A  minimum load [%]  15 %; Relative to smallest settable le	switch position 8	
switch position 10  • for inside-delta circuit at rotary coding switch on switch position 11  • for inside-delta circuit at rotary coding switch on switch position 12  • for inside-delta circuit at rotary coding switch on switch position 13  • for inside-delta circuit at rotary coding switch on switch position 14  • for inside-delta circuit at rotary coding switch on switch position 14  • for inside-delta circuit at rotary coding switch on switch position 15  • for inside-delta circuit at rotary coding switch on switch position 16  • at inside-delta circuit minimum  55.4 A  minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup  107 A  118 A  118 A  123 A  128 A  128 A  139 A  15 %; Relative to smallest settable le	switch position 9	
switch position 11  • for inside-delta circuit at rotary coding switch on switch position 12  • for inside-delta circuit at rotary coding switch on switch position 13  • for inside-delta circuit at rotary coding switch on switch position 14  • for inside-delta circuit at rotary coding switch on switch position 14  • for inside-delta circuit at rotary coding switch on switch position 15  • for inside-delta circuit at rotary coding switch on switch position 16  • at inside-delta circuit minimum  55.4 A  minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup  35 W	switch position 10	
<ul> <li>switch position 12</li> <li>for inside-delta circuit at rotary coding switch on switch position 13</li> <li>for inside-delta circuit at rotary coding switch on switch position 14</li> <li>for inside-delta circuit at rotary coding switch on switch position 15</li> <li>for inside-delta circuit at rotary coding switch on switch position 16</li> <li>at inside-delta circuit minimum</li> <li>at inside-delta circuit minimum</li> <li>55.4 A</li> <li>minimum load [%]</li> <li>power loss [W] for rated value of the current at AC</li> <li>at 40 °C after startup</li> <li>35 W</li> </ul>	switch position 11	
switch position 13  • for inside-delta circuit at rotary coding switch on switch position 14  • for inside-delta circuit at rotary coding switch on switch position 15  • for inside-delta circuit at rotary coding switch on switch position 16  • at inside-delta circuit minimum  minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup  123 A  128 A  133 A  133 A  15%; Relative to smallest settable le	switch position 12	
switch position 14  • for inside-delta circuit at rotary coding switch on switch position 15  • for inside-delta circuit at rotary coding switch on switch position 16  • at inside-delta circuit minimum  minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup  128 A  133 A  133 A  15 %; Relative to smallest settable le	switch position 13	
switch position 15  • for inside-delta circuit at rotary coding switch on switch position 16  • at inside-delta circuit minimum  55.4 A  minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup  35 W	switch position 14	
switch position 16  • at inside-delta circuit minimum  55.4 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  35 W	switch position 15	
minimum load [%]  power loss [W] for rated value of the current at AC  • at 40 °C after startup  15 %; Relative to smallest settable le  35 W	switch position 16	
power loss [W] for rated value of the current at AC  • at 40 °C after startup  35 W		
• at 40 °C after startup 35 W		10 /u, ivelative to sinaliest settable le
		35 W
	·	

10000 #	04.14/
at 60 °C after startup	31 W
power loss [W] at AC at current limitation 350 %	4.40=344
at 40 °C during startup	1 107 W
• at 50 °C during startup	933 W
at 60 °C during startup	826 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 bypass operation rated value	380 mA
locked-rotor current at close of bypass contact maximum	7.6 A
inrush current peak at application of control supply voltage maximum	3.3 A
duration of inrush current peak at application 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 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
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
height	306 mm
width	185 mm
depth	203 mm
required spacing with side-by-side mounting	
• forwards	10 mm
backwards	0 mm
• upwards	100 mm
• downwards	75 mm
at the side	5 mm
- 41 110 0140	

weight without packaging	5.6 kg
Connections/ Terminals	
type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	box terminal
<ul> <li>for control circuit</li> </ul>	screw-type terminals
width of connection bar maximum	25 mm
type of connectable conductor cross-sections	
<ul> <li>for main contacts for box terminal using the front clamping point solid</li> </ul>	1x (2.5 16 mm²)
<ul> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> </ul>	1x (2.5 50 mm²)
<ul> <li>for main contacts for box terminal using the front clamping point stranded</li> </ul>	1x (10 70 mm²)
<ul> <li>at AWG cables for main contacts for box terminal using the front clamping point</li> </ul>	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)
<ul> <li>for main contacts for box terminal using both clamping points finely stranded with core end processing</li> </ul>	2x (2.5 35 mm²)
for main contacts for box terminal using both clamping points stranded	2x (6 16 mm²), 2x (10 50 mm²)
<ul> <li>for main contacts for box terminal using the back clamping point finely stranded with core end processing</li> </ul>	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	
<ul> <li>for control circuit solid</li> </ul>	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
<ul> <li>for control circuit finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
<ul> <li>at AWG cables for control circuit solid</li> </ul>	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	
for main contacts with screw-type terminals	4.5 6 N·m
for auxiliary and control contacts with screw-type	0.8 1.2 N·m
terminals	0.0 1.2 IV III
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
mbient conditions	
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
ambient temperature	
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or
•	above
<ul> <li>during storage and transport</li> </ul>	-40 +80 °C
environmental category	
during operation acc. to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
• during storage acc. to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
<ul> <li>during transport acc. 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
ommunication/ Protocol	
Online Incation/ Frotocol	

PROFINET standard	Yes
EtherNet/IP	Yes
Modbus RTU	Yes
Modbus TCP	Yes
• PROFIBUS	Yes
CSA ratings	

#### UL/CSA ratings

## manufacturer's article number

#### of circuit breaker

- usable for Standard Faults at 460/480 V according to UL
- usable for High Faults at 460/480 V according to UL
- usable for Standard Faults at 460/480 V at inside-delta circuit according to UL
- usable for High Faults at 460/480 V at insidedelta circuit according to UL
- 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

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

- Siemens type: 3VA51, max. 125 A; Iq max = 65 kA
- Siemens type: 3VA51, max. 125 A; Iq = 10 kA
- Siemens type: 3VA51, max. 125 A; Iq max = 65 kA
- Siemens type: 3VA51, max. 125 A; Iq = 10 kA
- Siemens type: 3VA51, max. 125 A; Iq = 10 kA

## Type: Class RK5 / K5, max. 250 A; Iq = 10 kA

- Type: Class J / L, max. 250 A; Iq = 100 kA
- Type: Class RK5 / K5, max. 250 A; Iq = 10 kA
- Type: Class J / L, max. 250 A; Iq = 100 kA

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

# 20 hp 25 hp

- 50 hp
- 30 hp
- 40 hp
- 75 hp
- R300-B300

# contact rating of auxiliary contacts according to UL Safety related data

protection class IP on the front acc. to IEC 60529	
touch protection on the front acc. 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** 

Declaration of Conformity













Declaration of Conformity

**Test Certificates** 

Marine / Shipping

UK Declaration of Conformity

Type Test Certificates/Test Report











## 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=3RW5226-1AC04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5226-1AC04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5226-1AC04

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5226-1AC04&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

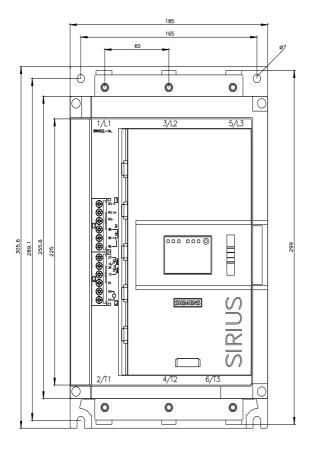
https://support.industry.siemens.com/cs/ww/en/ps/3RW5226-1AC04/char

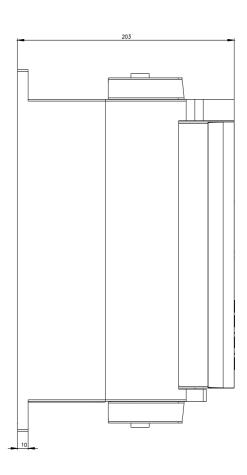
Characteristic: Installation altitude

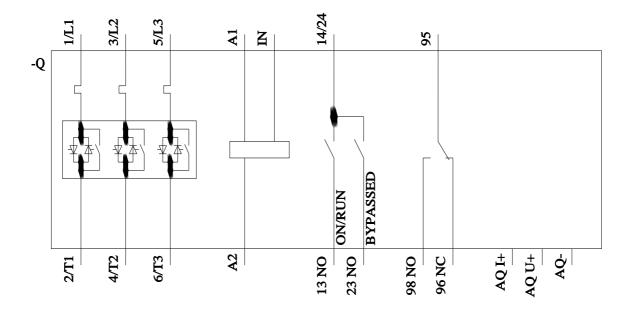
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5226-1AC04&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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