# **SIEMENS**

Data sheet 3RW5225-1TC04



SIRIUS soft starter 200-480 V 63 A, 24 V AC/DC Screw terminals Thermistor input

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

3VA2163-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

3VA2163-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10

3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 20 kA, CLASS 10

3NA3830-6; Type of coordination 1, Iq = 65 kA

3NA3830-6; Type of coordination 1, Iq = 65 kA

3NE1022-0; Type of coordination 2, Iq = 65 kA

3NE8024-1; 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

3

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	
<ul> <li>between main and auxiliary circuit</li> </ul>	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     intrinsic devices mante et in a	Yes
intrinsic device protection	Yes
motor overload protection	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)
evaluation of thermistor motor protection	Yes; Type A PTC or Klixon / Thermoclick
inside-delta circuit	Yes
auto-RESET	Yes
• manual RESET	Yes
• remote reset	Yes; By turning off the control supply voltage
communication function	Yes
operating measured value display     orrest lephock	Yes; Only in conjunction with special accessories Yes; Only in conjunction with special accessories
<ul><li>error logbook</li><li>via software parameterizable</li></ul>	No
	Yes
■ VIO SOTIWOTO CONTIGUITANIO	
<ul><li>via software configurable</li><li>PROFlenergy</li></ul>	Yes; in connection with the PROFINET Standard communication
PROFlenergy	Yes; in connection with the PROFINET Standard communication module
<ul><li>PROFlenergy</li><li>firmware update</li></ul>	Yes; in connection with the PROFINET Standard communication module Yes
<ul> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> </ul>	Yes; in connection with the PROFINET Standard communication module Yes Yes
<ul> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> </ul>	Yes; in connection with the PROFINET Standard communication module Yes Yes No
<ul> <li>PROFlenergy</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul>	Yes; in connection with the PROFINET Standard communication module Yes Yes
PROFlenergy     firmware update     removable terminal for control circuit     torque control     analog output  Power Electronics	Yes; in connection with the PROFINET Standard communication module Yes Yes No
PROFlenergy     firmware update     removable terminal for control circuit     torque control     analog output  Power Electronics  operational current	Yes; in connection with the PROFINET Standard communication module Yes Yes No No
PROFlenergy  In firmware update  removable terminal for control circuit  torque control  analog output  Power Electronics  operational current  at 40 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No
PROFlenergy  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	Yes; in connection with the PROFINET Standard communication module Yes Yes No No  63 A 55.5 A
PROFlenergy  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	Yes; in connection with the PROFINET Standard communication module Yes Yes No No
PROFlenergy  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; in connection with the PROFINET Standard communication module Yes Yes No No Solution No No Holian Standard communication Module Yes Yes A Solution Solution No
PROFlenergy  In 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  Toperational current at inside-delta circuit At 40 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No  63 A 55.5 A 50.5 A
PROFlenergy  In firmware update removable terminal for control circuit torque control analog output  Power Electronics  Operational current  At 40 °C rated value At 60 °C rated value Torque control  Torque control T	Yes; in connection with the PROFINET Standard communication module Yes Yes No No Solution No No Holian Standard communication Module Yes Yes A Solution Solution No
PROFlenergy  In 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  Toperational current at inside-delta circuit At 40 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No  63 A 55.5 A 50.5 A 109 A 96 A
PROFlenergy  In 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 operational current at inside-delta circuit  operational current at inside-delta circuit  operational current at inside-delta circuit operational current at inside-delta circuit operational current at inside-delta circuit operational current at inside-delta circuit operational current at inside-delta circuit operational current at inside-delta circuit operational current at inside-delta circuit	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No  63 A 55.5 A 50.5 A 109 A 96 A
PROFlenergy  In 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  operational current at inside-delta circuit at 40 °C rated value  operational current at inside-delta circuit at 40 °C rated value operational current at value operational current at value operational current value operational current value operational current value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No  63 A 55.5 A 50.5 A 109 A 96 A 87.5 A
PROFlenergy  In 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 operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value removed at 50 °C rated value at 60 °C rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No  63 A 55.5 A 50.5 A 109 A 96 A 87.5 A
PROFlenergy  In 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 operational current at inside-delta circuit at 40 °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 inside-delta circuit rated value at inside-delta circuit rated value	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No  63 A 55.5 A 50.5 A  109 A 96 A 87.5 A 200 480 V 200 480 V
PROFlenergy  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 operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °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 60 °C rated value operating voltage rated value operating voltage rated value operating voltage	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No  63 A 55.5 A 50.5 A  109 A 96 A 87.5 A  200 480 V 200 480 V -15 %
PROFlenergy  In 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 operational current at inside-delta circuit at 40 °C rated value operational current at inside-delta circuit at 40 °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 60 °C rated value operating voltage rated value operating voltage relative negative tolerance of the operating voltage	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No  63 A 55.5 A 50.5 A  109 A 96 A 87.5 A  200 480 V 200 480 V -15 % 10 %
PROFlenergy  In 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  operational current at 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  operating voltage  rated value  operating voltage  relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No  63 A 55.5 A 50.5 A  109 A 96 A 87.5 A  200 480 V 200 480 V -15 % 10 % -15 %
PROFlenergy  In 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  operational current at inside-delta circuit  at 40 °C rated value  at 50 °C rated value  at 60 °C rated value  at 60 °C rated value  operating voltage  rated value  operative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No  63 A 55.5 A 50.5 A  109 A 96 A 87.5 A  200 480 V 200 480 V -15 % 10 % -15 %
PROFlenergy  In 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  operating voltage  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 at inside-delta circuit  relative positive tolerance of the operating voltage at inside-delta circuit  operating power for 3-phase motors	Yes; in connection with the PROFINET Standard communication module Yes Yes No No No  63 A 55.5 A 50.5 A 109 A 96 A 87.5 A 200 480 V 200 480 V -15 % 10 % -15 %
PROFlenergy  In 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  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 operating voltage rated value operating voltage 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; in connection with the PROFINET Standard communication module Yes Yes No No No  63 A 55.5 A 50.5 A  109 A 96 A 87.5 A  200 480 V 200 480 V -15 % 10 % -15 % 10 %
PROFlenergy  In 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  operational current at inside-delta circuit  at 40 °C rated value  operational current at inside-delta circuit  at 40 °C rated value  operating voltage  rated value  operating voltage  rated value  operating voltage  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 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; in connection with the PROFINET Standard communication module Yes Yes No No No  63 A 55.5 A 50.5 A  109 A 96 A 87.5 A  200 480 V 200 480 V -15 % 10 % -15 % 10 %

Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
adjustable motor current	
<ul> <li>at rotary coding switch on switch position 1</li> </ul>	25.5 A
at rotary coding switch on switch position 2	28 A
at rotary coding switch on switch position 3     at rotary coding switch on switch position 4.	30.5 A
<ul> <li>at rotary coding switch on switch position 4</li> <li>at rotary coding switch on switch position 5</li> </ul>	33 A 35.5 A
at rotary coding switch on switch position 6      at rotary coding switch on switch position 6	38 A
<ul> <li>at rotary coding switch on switch position 7</li> </ul>	40.5 A
at rotary coding switch on switch position 8	43 A
at rotary coding switch on switch position 9	45.5 A
at rotary coding switch on switch position 10	48 A
at rotary coding switch on switch position 11	50.5 A
at rotary coding switch on switch position 12	53 A
<ul> <li>at rotary coding switch on switch position 13</li> </ul>	55.5 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	58 A
<ul> <li>at rotary coding switch on switch position 15</li> </ul>	60.5 A
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	63 A
• minimum	25.5 A
adjustable motor current	
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> </ul>	44.2 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> </ul>	48.5 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 3</li> </ul>	52.8 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> </ul>	57.2 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> </ul>	61.5 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> </ul>	65.8 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> </ul>	70.1 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 8</li> </ul>	74.5 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 9</li> </ul>	78.8 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> </ul>	83.1 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 11</li> </ul>	87.5 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 12</li> </ul>	91.8 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 13</li> </ul>	96.1 A
for inside-delta circuit at rotary coding switch on switch position 14     for inside delta circuit at rotary coding switch on the circuit at rotary coding switch at rotary co	100 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 15</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	105 A 109 A
switch position 16     at inside-delta circuit minimum	44.2 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	31 W
at 50 °C after startup	29 W
at 60 °C after startup	27 W
power loss [W] at AC at current limitation 350 $\%$	
<ul> <li>at 40 °C during startup</li> </ul>	882 W
• at 50 °C during startup	744 W
at 60 °C during startup	659 W
Control circuit/ Control	AOIDO
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	

<ul> <li>at 50 Hz rated value</li> </ul>	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	
<ul> <li>at DC rated value</li> </ul>	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
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	part of doops of dapping
	1
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	0
switching capacity current of the relay outputs	0.4
at AC-15 at 250 V rated value     At DC 13 at 24 V rated value	3 A
at DC-13 at 24 V rated value	1 A
Installation/ mounting/ dimensions	
mounting position	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface
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
weight without packaging	5.6 kg
	3.0 kg
Connections/ Terminals	5.0 kg
	5.0 kg
type of electrical connection  • for main current circuit	box terminal
type of electrical connection	box terminal
type of electrical connection • for main current circuit	
type of electrical connection	box terminal screw-type terminals
type of electrical connection	box terminal screw-type terminals 25 mm
type of electrical connection	box terminal screw-type terminals 25 mm
type of electrical connection	box terminal screw-type terminals 25 mm 50 m 150 m
type of electrical connection	box terminal screw-type terminals 25 mm
type of electrical connection	box terminal screw-type terminals 25 mm 50 m 150 m

	acts for box terminal using the front finely stranded with core end	1x (2.5 50 mm²)
, ,	acts for box terminal using the front	1x (10 70 mm²)
	es for main contacts for box terminal	1x (10 2/0)
ŭ	acts for box terminal using the back	1x (2.5 16 mm²)
	es for main contacts for box terminal	1x (10 2/0)
•	acts for box terminal using both	2x (2.5 16 mm²)
	acts for box terminal using both s finely stranded with core end	2x (2.5 35 mm²)
<ul> <li>for main contact</li> <li>clamping points</li> </ul>	acts for box terminal using both stranded	2x (6 16 mm²), 2x (10 50 mm²)
	acts for box terminal using the back finely stranded with core end	1x (2.5 50 mm²)
clamping point		1x (10 70 mm²)
	le conductor cross-sections	
<ul> <li>for control circ</li> </ul>		1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
processing	cuit finely stranded with core end	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
	es for control circuit solid	1x (20 12), 2x (20 14)
wire length		
	starter and motor maximum	800 m
_	nputs at AC maximum	100 m
_	nputs at DC maximum	1 000 m
tightening torque	- 4	45 ON
	acts with screw-type terminals	4.5 6 N·m
for auxiliary a terminals	nd control contacts with screw-type	0.8 1.2 N·m
tightening torque	[lhf.in]	
	acts with screw-type terminals	40 53 lbf·in
	acts with screw-type terminals and control contacts with screw-type	7 10.3 lbf-in
terminals	ind control contacts with screw-type	7 10.3 IDI III
Ambient conditions		
	at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
ambient temperatu		
<ul><li>during operat</li></ul>	ion	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
<ul><li>during storage</li></ul>	•	-40 +80 °C
environmental cat		
	ion according to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
	e according to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
0 1	ort according to IEC 60721	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
EMC emitted inter		acc. to IEC 60947-4-2: Class A
Communication/ Pro		
	odule is supported	
PROFINET s	tandard	Yes
EtherNet/IP     Madbus DTU		Yes
Modbus RTU     Modbus TCB		Yes
<ul><li>Modbus TCP</li><li>PROFIBUS</li></ul>		Yes Yes
		162
UL/CSA ratings		
manufacturer's art		
of circuit bre		0
according to		Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA
— usable fo to UL	or High Faults at 460/480 V according	Siemens type: 3VA51, max. 125 A; Iq max = 65 kA

— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL  $\,$ 

— usable for High Faults at 460/480 V at inside-delta circuit according to UL  $\,$ 

— usable for 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

at 220/230 V at inside-delta circuit at 50 °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 max = 65 kA

Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA

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

Type: Class RK5 / K5, max. 200 A; Iq = 10 kA

Type: Class J / L, max. 225 A; Iq = 100 kA

Type: Class RK5 / K5, max. 200 A; Iq = 10 kA

Type: Class J / L, max. 225 A; Iq = 100 kA

15 hp

20 hp

40 hp

30 hp

30 hp

75 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=3RW5225-1TC04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5225-1TC04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5225-1TC04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax">http://www.automation.siemens.com/bilddb/cax</a> de.aspx?mlfb=3RW5225-1TC04&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

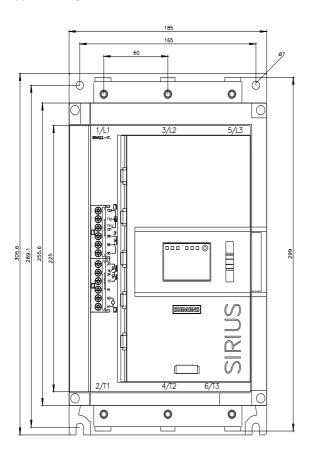
https://support.industry.siemens.com/cs/ww/en/ps/3RW5225-1TC04/char

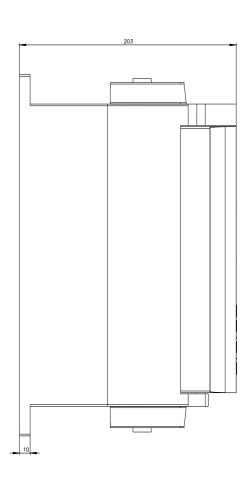
Characteristic: Installation altitude

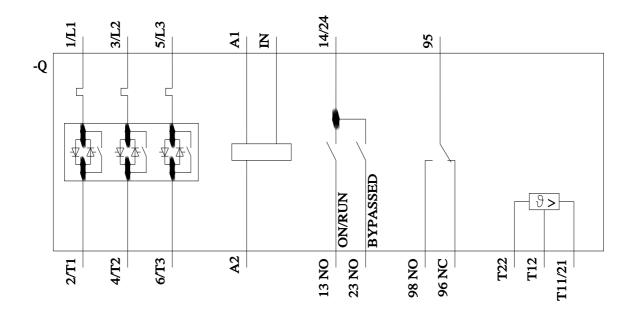
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5225-1TC04&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

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







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