SIEMENS

Data sheet 3RW5225-1TC14



SIRIUS soft starter 200-480 V 63 A, 110-250 V AC 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

<u>3VA2110-7MN32-0AA0</u>; 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

CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2

a for main ourrent aircuit	100 mg
• for main current circuit	100 ms 100 ms
• for control circuit	
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	000.14
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	Vaa
• ramp-up (soft starting)	Yes
• ramp-down (soft stop)	Yes Yes
Soft Torque adjustable current limitation	Yes
adjustable current limitation pump ramp down	Yes
pump ramp down intrinsic device protection	Yes
intrinsic device protectionmotor overload protection	Yes; Full motor protection (thermistor motor protection and electronic
·	motor overload protection)
evaluation of thermistor motor protection incide delta circuit	Yes; Type A PTC or Klixon / Thermoclick Yes
inside-delta circuit auto-RESET	Yes
	Yes
manual RESET remote reset	
communication function	Yes; By turning off the control supply voltage Yes
operating measured value display	Yes; Only in conjunction with special accessories
error logbook	Yes; Only in conjunction with special accessories
via software parameterizable	No
via software configurable	Yes
• PROFlenergy	Yes; in connection with the PROFINET Standard communication module
firmware update	Yes
removable terminal for control circuit	Yes
torque control	No
analog output	No
Power Electronics	
operational current	
at 40 °C rated value	63 A
at 50 °C rated value	55.5 A
at 60 °C rated value	50.5 A
operational current at inside-delta circuit	
at 40 °C rated value	109 A
at 50 °C rated value	96 A
at 60 °C rated value	87.5 A
operating voltage	
• rated value	200 480 V
at inside-delta circuit rated value	200 480 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at inside-delta circuit	-15 %
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
• at 230 V at 40 °C rated value	18.5 kW
at 230 V at inside-delta circuit at 40 °C rated value	30 kW
at 400 V at 40 °C rated value	30 kW
at 400 V at inside-delta circuit at 40 °C rated value	55 kW
Operating frequency 1 rated value	50 Hz

relative negative tolerance of the operating frequency adjustable motor current * at rolary coding switch on switch position 0	Operating frequency 2 rated value	60 Hz
a lar clary coding switch on switch position 1 a it rolary coding switch on switch position 2 a it rolary coding switch on switch position 3 a it rolary coding switch on switch position 5 a it rolary coding switch on switch position 6 a it rolary coding switch on switch position 7 a it rolary coding switch on switch position 7 a it rolary coding switch on switch position 8 a it rolary coding switch on switch position 9 a it rolary coding switch on switch position 10 a it rolary coding switch on switch position 10 a it rolary coding switch on switch position 10 a it rolary coding switch on switch position 10 a it rolary coding switch on switch position 10 a it rolary coding switch on switch position 10 a it rolary coding switch on switch position 10 a it rolary coding switch on switch position 13 a it rolary coding switch on switch position 15 a it rolary coding switch on switch position 15 a it rolary coding switch on switch position 15 a it rolary coding switch on switch position 15 a it rolary coding switch on switch position 16 a it rolary coding switch on switch position 16 a it rolary coding switch on switch position 16 a it rolary coding switch on switch position 16 a it rolary coding switch on switch position 16 a it rolary coding switch on switch position 16 a it rolary coding switch on switch position 16 a it rolary coding switch on switch position 16 a it rolary coding switch on switch position 16 a it rolary code switch position 10 a it rolary code switch positi	relative negative tolerance of the operating frequency	-10 %
a rit totary coding switch on switch position 2 bit or totary coding switch on switch position 3 circlary coding switch on switch position 4 directory coding switch on switch position 6 directory coding switch on switch position 7 directory coding switch on switch position 6 directory coding switch on switch position 7 directory coding switch on switch position 9 directory coding switch on switch position 11 directory coding switch on switch position 11 directory coding switch on switch position 11 directory coding switch on switch position 12 directory coding switch on switch position 13 directory coding switch on switch position 13 directory coding switch on switch position 13 directory coding switch on switch position 15 directory coding switch on switch position 15 directory coding switch on switch position 15 directory coding switch on switch position 16 directory coding switch on switch position 17 directory coding switch on switch position 17 directory coding switch on switch position 18 directory coding switch 18 directory c	relative positive tolerance of the operating frequency	10 %
a trotary coding witch on switch position 3 but to rotary coding witch on switch position 3 cut rotary coding witch on switch position 5 due trotary coding witch on switch position 7 due trotary coding witch on switch position 7 due trotary coding witch on switch position 7 due trotary coding witch on switch position 9 due trotary coding witch on switch position 10 due trotary coding witch on switch position 11 due trotary coding witch on switch position 13 due trotary coding witch on switch position 13 due trotary coding witch on switch position 14 due trotary coding witch on switch position 16 due trotary coding witch on switch position 17 due trotary coding witch on switch position 18 due trotary coding witch on switch position 19 due trotary coding witch on switch position 19 due trotary coding witch on due trotary coding witch on switch position 19 due trotary coding witch on due trotary coding witch on switch position 19 due trotary coding witch on due trotary coding witch on switch position 19 due trotary coding witch on due trotary coding witch on switch position 19 due trotary coding witch on due trotary coding witch on switch position 19 due trotary coding witch on due trotary coding witch on switch position 19 due trotary coding witch on due trotary coding witch on switch position 19 due trotary coding witch on due trotary coding witch on switch position 19 due trotary coding witch on due trotary coding witch on switch position 19 due trotary coding witch on due trotary coding witch on switch position 19 due trotary coding due trotary cod	adjustable motor current	
a crit cotary coding witch on switch position 4 a crit cotary coding witch on switch position 4 a crit cotary coding witch on switch position 5 a crit cotary coding witch on switch position 7 a crit cotary coding witch on switch position 7 a crit cotary coding witch on switch position 8 a crit cotary coding witch on switch position 9 a crit cotary coding witch on switch position 10 a crit cotary coding witch on switch position 11 a crit cotary coding witch on switch position 11 a crit cotary coding switch on switch position 12 a crit cotary coding switch on switch position 13 a crit cotary coding switch on switch position 13 a crit cotary coding switch on switch position 15 a crit cotary coding switch on switch position 15 a crit cotary coding switch on switch position 16 a crit cotary coding switch on switch position 16 a crit cotary coding switch on switch position 16 a crit cotary coding switch on switch position 16 a crit cotary coding switch on switch position 16 a crit cotary coding switch on switch position 16 b crit misde-delta circuit at rotary coding switch on switch position 3 b crit misde-delta circuit at rotary coding switch on switch position 6 b crit misde-delta circuit at rotary coding switch on switch position 6 b crit misde-delta circuit at rotary coding switch on switch position 6 b crit misde-delta circuit at rotary coding switch on switch position 6 b crit misde-delta circuit at rotary coding switch on switch position 7 b crit misde-delta circuit at rotary coding switch on switch position 10 b crit misde-delta circuit at rotary coding switch on switch position 10 b crit misde-delta circuit at rotary coding switch on switch position 10 b crit misde-delta circuit at rotary coding switch on switch position 10 b crit misde-delta circuit at rotary coding switch on switch position 10 b crit misde-delta circuit at rotary coding switch on switch position 10 b crit misde-delta circuit at rotary coding switch on switch position 10 b crit misde-delta circuit at rotary coding switch on switch position		
a trotary coding switch on switch position 5 a trotary coding switch on switch position 7 at rotary coding switch on switch position 7 at rotary coding switch on switch position 7 at rotary coding switch on switch position 8 at rotary coding switch on switch position 9 at rotary coding switch on switch position 10 at rotary coding switch on switch position 10 at rotary coding switch on switch position 12 at rotary coding switch on switch position 12 at rotary coding switch on switch position 12 at rotary coding switch on switch position 14 at rotary coding switch on switch position 14 at rotary coding switch on switch position 14 at rotary coding switch on switch position 16 at rotary coding switch on switch position 17 at rotary coding switch on switch position 17 at rotary coding switch 18	·	
a trotary coding switch on switch position 6 a for totary coding switch on switch position 6 a for totary coding switch on switch position 8 a trotary coding switch on switch position 8 a trotary coding switch on switch position 9 a trotary coding switch on switch position 19 a trotary coding switch on switch position 11 b a trotary coding switch on switch position 11 a trotary coding switch on switch position 11 a trotary coding switch on switch position 12 a trotary coding switch on switch position 13 a trotary coding switch on switch position 14 a trotary coding switch on switch position 15 a trotary coding switch on switch position 15 a trotary coding switch on switch position 16 a trotary coding switch on switch position 17 b trotary coding switch 1		
a trotary coding switch on switch position 7 at rotary coding switch on switch position 7 at rotary coding switch on switch position 9 at rotary coding switch on switch position 10 at rotary coding switch on switch position 11 at rotary coding switch on switch position 12 at rotary coding switch on switch position 13 at rotary coding switch on switch position 14 at rotary coding switch on switch position 14 at rotary coding switch on switch position 15 at rotary coding switch on switch position 16 at rotary coding switch on switch position 16 at rotary coding switch on switch position 10 brinside-detal circult at rotary coding switch on switch position 2 brinside-detal circult at rotary coding switch on switch position 3 brinside-detal circult at rotary coding switch on switch position 3 brinside-detal circult at rotary coding switch on switch position 6 brinside-detal circult at rotary coding switch on switch position 6 brinside-detal circult at rotary coding switch on switch position 10 brinside-detal circult at rotary coding switch on switch position 10 brinside-detal circult at rotary coding switch on switch position 10 brinside-detal circult at rotary coding switch on switch position 10 brinside-detal circult at rotary coding switch on switch position 10 brinside-detal circult at rotary coding switch on switch position 12 brinside-detal circult at rotary coding switch on switch position 12 brinside-detal circult at rotary coding switch on switch position 12 brinside-detal circult at rotary coding switch on switch position 12 brinside-detal circult at rotary coding switch on switch position 12 brinside-detal circult at rotary coding switch on switch position 12 brinside-detal circult at rotary coding switch on switch position 12 brinside-detal circult at rotary coding switch on switch position 13 brinside-detal circult at rotary coding switch on switch position 13 brinsi		
a trotary coding switch on switch position 7 at rotary coding switch on switch position 10 at rotary coding switch on switch position 11 at rotary coding switch on switch position 13 at rotary coding switch on switch position 15 at rotary coding switch on switch position 16 at rotary coding switch on switch position 17 at position 19 at rotary coding switch on switch position 19 at rotary coding switch on switch position 19 at rotary coding switch on switch position 2 at rotary coding switch on switch position 3 at rotary coding switch on switch position 4 at rotary coding switch on switch position 4 at rotary coding switch on switch position 5 at rotary coding switch on switch position 6 at rotary coding switch on switch position 6 at rotary coding switch on switch position 6 at rotary coding switch on switch position 19 at rotary coded		
a fir folary coding switch on switch position 9 at rotary coding switch on switch position 10 at rotary coding switch on switch position 10 at rotary coding switch on switch position 12 at rotary coding switch on switch position 12 at rotary coding switch on switch position 12 at rotary coding switch on switch position 14 at rotary coding switch on switch position 16 at rotary coding switch on switch position 17 at rotary coding switch on switch position 18 at rotary coding switch on switch position 19 at rotary coding switch 19 at		
a trotary coding switch on switch position 1 at rotary coding switch on switch position 12 at rotary coding switch on switch position 12 at rotary coding switch on switch position 13 at rotary coding switch on switch position 13 at rotary coding switch on switch position 13 at rotary coding switch on switch position 15 at rotary coding switch on switch position 15 at rotary coding switch on switch position 16 at rotary coding switch on switch position 17 at position 19 at or inside cellact circuit at rotary coding switch on switch position 2 at or inside cellact circuit at rotary coding switch on switch position 4 at or inside cellact circuit at rotary coding switch on switch position 5 at or inside cellact circuit at rotary coding switch on switch position 6 at or inside cellact circuit at rotary coding switch on switch position 19 at or inside cellact circuit at rotary coding switch on switch position 19 at or inside cellact circuit at rotary coding switch on switch position 19 at or inside cellact circuit at rotary coding switch on switch position 19 at or inside cellact circuit at rotary coding switch on switch position 19 at or inside cellact circuit at rotary coding switch on switch position 19 at or inside cellact circuit at rotary coding switch on switch position 19 at or inside cellact circuit at rotary coding switch on switch position 19 at or inside cellact circuit at rotary coding switch on switch position 19 at or inside cellact circuit at rotary coding switch on switch position 19 at or inside cellact circuit at rotary coding switch on switch position 19 at or inside cellact circuit at rotary coding switch on switch position 19 at or inside cellact circuit at rotary coding switch on switch position 19 at or inside cellact circuit at rotary coding switch on switch positio		
e at rotary coding switch on switch position 10 e1 at rotary coding switch on switch position 12 e1 at rotary coding switch on switch position 12 e1 at rotary coding switch on switch position 13 e1 at rotary coding switch on switch position 14 e1 at rotary coding switch on switch position 14 e1 at rotary coding switch on switch position 15 e1 at rotary coding switch on switch position 16 e1 at rotary coding switch on switch position 16 e1 at rotary coding switch on switch position 16 e1 at rotary coding switch on switch position 16 e1 at rotary coding switch on switch position 16 e1 at rotary coding switch on switch position 16 e1 at rotary coding switch on switch position 17 e1 at rotary coding switch on switch position 19 e1 at rotary coding switch on switch p		
at rotary coding switch on switch position 12 at rotary coding switch on switch position 13 at rotary coding switch on switch position 14 at rotary coding switch on switch position 15 at rotary coding switch on switch position 15 at rotary coding switch on switch position 15 at rotary coding switch on switch position 16 at rotary coding switch on switch position 1 adjustable motor current of in inde-delta circuit at rotary coding switch on switch position 2 of in inde-delta circuit at rotary coding switch on switch position 3 of rinside-delta circuit at rotary coding switch on switch position 3 of rinside-delta circuit at rotary coding switch on switch position 3 of rinside-delta circuit at rotary coding switch on switch position 6 of rinside-delta circuit at rotary coding switch on switch position 6 of rinside-delta circuit at rotary coding switch on switch position 6 of rinside-delta circuit at rotary coding switch on switch position 6 of rinside-delta circuit at rotary coding switch on switch position 6 of rinside-delta circuit at rotary coding switch on switch position 7 of rinside-delta circuit at rotary coding switch on switch position 9 of rinside-delta circuit at rotary coding switch on switch position 10 of rinside-delta circuit at rotary coding switch on switch position 10 of rinside-delta circuit at rotary coding switch on switch position 10 of rinside-delta circuit at rotary coding switch on switch position 10 of rinside-delta circuit at rotary coding switch on switch position 10 of rinside-delta circuit at rotary coding switch on switch position 10 of rinside-delta circuit at rotary coding switch on switch position 10 of rinside-delta circuit at rotary coding switch on switch position 10 of rinside-delta circuit at rotary coding switch on switch position 10 of rinside-delta circuit at rotary coding switch on switch position 10 of rinside-d		
a trotary coding switch on switch position 12 at rotary coding switch on switch position 13 at rotary coding switch on switch position 14 at rotary coding switch on switch position 15 at rotary coding switch on switch position 16 at rotary coding switch on switch position 16 at rotary coding switch on switch position 16 at rotary coding switch on switch position 17 of inside-deltal circuit at rotary coding switch on switch position 1 of inside-deltal circuit at rotary coding switch on switch position 2 of inside-delta circuit at rotary coding switch on switch position 3 of inside-delta circuit at rotary coding switch on switch position 4 of inside-delta circuit at rotary coding switch on switch position 4 of inside-delta circuit at rotary coding switch on switch position 5 of inside-delta circuit at rotary coding switch on switch position 6 of inside-delta circuit at rotary coding switch on switch position 7 of inside-delta circuit at rotary coding switch on switch position 10 of inside-deltal circuit at rotary coding switch on switch position 10 of inside-deltal circuit at rotary coding switch on switch position 10 of inside-deltal circuit at rotary coding switch on switch position 14 of inside-deltal circuit at rotary coding switch on switch position 14 of inside-deltal circuit at rotary coding switch on switch position 14 of inside-deltal circuit at rotary coding switch on switch position 14 of inside-deltal circuit at rotary coding switch on switch position 14 of inside-deltal circuit at rotary coding switch on switch position 14 of inside-deltal circuit at rotary coding switch on switch position 15 of circuit cells are circuit at rotary coding switch on switch position 14 of inside-deltal circuit at rotary coding switch on switch position 15 of circuit cells are circuit at rotary coding switch on switch position 15 of circuit cells are circuit at rotary coding switch on switch position 15 of circuit cells are circuit at rotary coding switch on switch position 15 of circuit cells ar		
a trotary coding switch on switch position 13 at rotary coding switch on switch position 15 at rotary coding switch on switch position 15 at rotary coding switch on switch position 16 at rotary coding switch on switch position 1 adjustable motor current for inside-detta circuit at rotary coding switch on switch position 2 at rotary coding switch on switch position 3 at rotary coding switch on switch position 3 at rotary coding switch on switch position 3 at rotary coding switch on switch position 4 at rotary coding switch on switch position 4 at rotary coding switch on switch position 5 at rotary coding switch on switch position 4 at rotary coding switch on switch position 5 at rotary coding switch on switch position 6 at rotary coding switch on switch position 7 at rotary coding switch on switch position 7 at rotary coding switch on switch position 7 at rotary coding switch on switch position 9 at rotary coding switch on switch position 1 at rotary coding switch 1 at rotary coding sw		
at rotary coding switch on switch position 14 at rotary coding switch on switch position 15 at rotary coding switch on switch position 16 minimum adjustable motor current of in inside-delta circuit at rotary coding switch on switch position 1 of in inside-delta circuit at rotary coding switch on switch position 2 of in inside-delta circuit at rotary coding switch on switch position 3 of in inside-delta circuit at rotary coding switch on switch position 4 of in inside-delta circuit at rotary coding switch on switch position 5 of in inside-delta circuit at rotary coding switch on switch position 5 of in inside-delta circuit at rotary coding switch on switch position 6 of in inside-delta circuit at rotary coding switch on switch position 7 of in inside-delta circuit at rotary coding switch on switch position 8 of in inside-delta circuit at rotary coding switch on switch position 9 of in inside-delta circuit at rotary coding switch on switch position 10 of in inside-delta circuit at rotary coding switch on switch position 12 of in inside-delta circuit at rotary coding switch on switch position 13 of in inside-delta circuit at rotary coding switch on switch position 14 of in inside-delta circuit at rotary coding switch on switch position 15 of in inside-delta circuit at rotary coding switch on switch position 15 of in inside-delta circuit at rotary coding switch on switch position 16 of in inside-delta circuit at rotary coding switch on switch position 16 of in inside-delta circuit at rotary coding switch on switch position 16 of in inside-delta circuit at rotary coding switch on switch position 16 of in inside-delta circuit at rotary coding switch on switch position 16 of code delta circuit at rotary coding switch on switch position 16 of code delta circuit at rotary coding switch on switch position 16 of code delta circuit at rotary coding switch on switch position 16 of coding-delta circuit at rotary coding switch on switch position 16 of code delta circuit at rotary coding switch on sw		
at rotary coding switch on switch position 15 at rotary coding switch on switch position 16 at rotary coding switch on switch position 18 adjustable motor current for inside-detal circuit at rotary coding switch on switch position 1 for inside-detal acticuit at rotary coding switch on switch position 3 for inside-detal acticuit at rotary coding switch on switch position 4 for inside-detal acticuit at rotary coding switch on switch position 4 for inside-detal acticuit at rotary coding switch on switch position 4 for inside-detal acticuit at rotary coding switch on switch position 6 for inside-detal acticuit at rotary coding switch on switch position 6 for inside-detal acticuit at rotary coding switch on switch position 7 for inside-detal acticuit at rotary coding switch on switch position 8 for inside-detal acticuit at rotary coding switch on switch position 9 for inside-detal acticuit at rotary coding switch on switch position 19 for inside-detal acticuit at rotary coding switch on switch position 19 for inside-detal acticuit at rotary coding switch on switch position 19 for inside-detal acticuit at rotary coding switch on switch position 19 for inside-detal acticuit at rotary coding switch on switch position 15 for inside-detal acticuit at rotary coding switch on switch position 16 for inside-detal acticuit at rotary coding switch on switch position 16 for inside-detal acticuit at rotary coding switch on switch position 16 at inside-detal acticuit at rotary coding switch on switch position 16 at inside-detal acticuit at rotary coding switch on switch position 16 at als inside-detal acticuit at rotary coding switch on switch position 16 at als inside-detal acticuit at rotary coding switch on switch position 16 at als inside-detal acticuit at rotary coding switch on switch position 16 at als inside-detal acticuit at rotary coding switch on switch position 16 at als inside-detal acticuit at rotary coding switch on switch position 16 at als inside-detal acticuit at rotary coding switch o		
a trotary coding switch on switch position 16 in minimum of rinside-delta circuit at rotary coding switch on switch position 1 of ror inside-delta circuit at rotary coding switch on switch position 2 of ror inside-delta circuit at rotary coding switch on switch position 3 of ror inside-delta circuit at rotary coding switch on switch position 4 of ror inside-delta circuit at rotary coding switch on switch position 5 of ror inside-delta circuit at rotary coding switch on switch position 6 of ror inside-delta circuit at rotary coding switch on switch position 6 of ror inside-delta circuit at rotary coding switch on switch position 7 of ror inside-delta circuit at rotary coding switch on switch position 8 of ror inside-delta circuit at rotary coding switch on switch position 9 of ror inside-delta circuit at rotary coding switch on switch position 10 of ror inside-delta circuit at rotary coding switch on switch position 10 of ror inside-delta circuit at rotary coding switch on switch position 11 of ror inside-delta circuit at rotary coding switch on switch position 12 of ror inside-delta circuit at rotary coding switch on switch position 14 of ror inside-delta circuit at rotary coding switch on switch position 14 of ror inside-delta circuit at rotary coding switch on switch position 14 of ror inside-delta circuit at rotary coding switch on switch position 14 of ror inside-delta circuit at rotary coding switch on switch position 14 of ror inside-delta circuit at rotary coding switch on switch position 14 of ror inside-delta circuit at rotary coding switch on switch position 14 of ror inside-delta circuit at rotary coding switch on switch position 15 of ror inside-delta circuit at rotary coding switch on switch position 14 of ror inside-delta circuit at rotary coding switch on switch position 15 of ror inside-delta circuit at rotary coding switch on switch position 14 of ror inside-delta circuit at rotary coding switch on switch position 14 of ror inside-delta circuit at rotary coding switch on switch position 14 of	·	
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 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 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 9 • 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 12 • 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 • 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 17 • for for code celta circuit at rotary coding switch on switch position 16 • at a for code delta circuit at rotary coding switch on switch position 16 • at 1 side-delta circuit at rotary coding switch on switch position 17 • for for code celta circuit at rotary coding switch on switch position 18 • for inside-delta circuit at rotary coding switch on switch position 19 • for for celta celta circuit a		
• 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 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 10 • 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 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 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 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 at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch o		
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 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 10 • for inside-delta circuit at rotary coding switch on switch position 10 • 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 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 1 side-delta circuit at rotary coding switch on switch position 16 • at 1 side-delta circuit at rotary coding switch on switch position 16 • at 1 side-delta circuit at rotary coding switch on switch position 16 • at 1 side-delta circuit at rotary coding switch on switch position 19 • at 80 °C after startup • at 80 °C after startup • at 80 °C after startup • at 80 °C during startup	adjustable motor current	
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 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 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 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 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 14 • for inside-delta circuit at rotary coding switch on switch position 15 • 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 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 c		44.2 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 7 • 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 10 • 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 10 • 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 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 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 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 s		48.5 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 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 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 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 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 rotar	switch position 3	52.8 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 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 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 or 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 17 • for inside-delta circuit at rotary coding switch on switch position 18 • for inside-delta circuit at rotary coding switch on switch position 18 • for inside-delta circuit at rotary coding switch on switch position 19 • for inside-delta circuit at rotary coding switch on switch position 19 • for inside-delta circuit at rotary coding switch on switch position 19 • for inside-delta circuit at rotary co	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 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 100 A 100	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 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 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 100 C after startup • at 60 °C after startup • at 60 °C after startup • at 60 °C during startup	switch position 6	
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 minimum At 2 A minimum load [%] power loss [W] for rated value of the current at AC At 40 °C after startup At 50 °C after startup At 60 °C during startup	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 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 minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup • at 50 °C after startup • at 60 °C after startup • at 60 °C during startup • at 50 °C during startup	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 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 ### Add Add Add Add Add Add Add Add Add	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 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 minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup • at 50 °C after startup • at 60 °C after startup • at 40 °C during startup • at 40 °C during startup • at 40 °C during startup • at 60 °C during startup • AC	switch position 10	
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 44.2 A	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 • at 50 °C after startup power loss [W] at AC at current limitation 350 % • at 40 °C during startup • at 50 °C during startup • at 60 °C during startup	switch position 12	96.1 A
• 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 • at 50 °C after startup • at 60 °C after startup • at 40 °C during startup • at 40 °C during startup • at 40 °C during startup • at 40 °C during startup • at 60 °C during startup	switch position 13 • for inside-delta circuit at rotary coding switch on	100 A
 for inside-delta circuit at rotary coding switch on switch position 16 at inside-delta circuit minimum 44.2 A minimum load [%] power loss [W] for rated value of the current at AC at 40 °C after startup at 50 °C after startup at 60 °C after startup at 60 °C after startup at 40 °C during startup at 50 °C during startup at 40 °C during startup at 40 °C during startup at 50 °C during startup at 50 °C during startup at 50 °C during startup at 60 °C during startup AC 	for inside-delta circuit at rotary coding switch on	105 A
 at inside-delta circuit minimum 44.2 A minimum load [%] power loss [W] for rated value of the current at AC at 40 °C after startup at 50 °C after startup at 60 °C after startup power loss [W] at AC at current limitation 350 % at 40 °C during startup at 50 °C during startup at 60 °C during startup AC 	 for inside-delta circuit at rotary coding switch on 	109 A
minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup • at 50 °C after startup • at 60 °C after startup power loss [W] at AC at current limitation 350 % • at 40 °C during startup • at 50 °C during startup • at 50 °C during startup • at 60 °C during startup • AC		44.2.4
power loss [W] for rated value of the current at AC • at 40 °C after startup • at 50 °C after startup • at 60 °C after startup power loss [W] at AC at current limitation 350 % • at 40 °C during startup • at 50 °C during startup • at 50 °C during startup • at 60 °C during startup • AC		
 at 40 °C after startup at 50 °C after startup at 60 °C after startup at 60 °C after startup power loss [W] at AC at current limitation 350 % at 40 °C during startup at 50 °C during startup at 60 °C during startup at 60 °C during startup at 60 °C during startup AC Control circuit/ Control type of voltage of the control supply voltage AC		10 70, Relative to simulicat settable le
 at 50 °C after startup at 60 °C after startup power loss [W] at AC at current limitation 350 % at 40 °C during startup at 50 °C during startup at 60 °C during startup at 60 °C during startup at 60 °C during startup AC Control circuit/ Control type of voltage of the control supply voltage AC		31 W
 at 60 °C after startup power loss [W] at AC at current limitation 350 % at 40 °C during startup at 50 °C during startup at 60 °C during startup at 60 °C during startup bype of voltage of the control supply voltage 	•	
power loss [W] at AC at current limitation 350 % • at 40 °C during startup 882 W • at 50 °C during startup 744 W • at 60 °C during startup 659 W Control circuit/ Control type of voltage of the control supply voltage AC	•	27 W
 at 50 °C during startup at 60 °C during startup 659 W Control circuit/ Control type of voltage of the control supply voltage AC	•	
at 60 °C during startup Control circuit/ Control type of voltage of the control supply voltage AC	 at 40 °C during startup 	882 W
Control circuit/ Control type of voltage of the control supply voltage AC	 at 50 °C during startup 	744 W
type of voltage of the control supply voltage AC	at 60 °C during startup	659 W
	Control circuit/ Control	
control supply voltage at AC		AC
	control supply voltage at AC	

● at 50 Hz	110 250 V
● at 60 Hz	110 250 V
relative negative tolerance of the control supply	-15 %
voltage at AC at 50 Hz relative positive tolerance of the control supply	10 %
voltage at AC at 50 Hz	
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply	-10 %
voltage frequency relative positive tolerance of the control supply	10 %
voltage frequency	
control supply current in standby mode rated value	30 mA
holding current in bypass operation rated value	75 mA
inrush current peak at application of control supply voltage maximum	12.2 A
duration of inrush current peak at application of control supply voltage	2.2 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
I	not part of scope of supply
Inputs/ Outputs	
number of digital inputs	1
number of digital outputs	3
not parameterizable digital autout varian	2
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO) 0
number of analog outputs	O
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	1/ 10° retation possible and can be tilted forward on backward on
	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface
Installation/ mounting/ dimensions mounting position	vertical mounting surface
Installation/ mounting/ dimensions	
Installation/ mounting/ dimensions mounting position fastening method	vertical mounting surface screw fixing
Installation/ mounting/ dimensions mounting position fastening method height	vertical mounting surface screw fixing 306 mm
Installation/ mounting/ dimensions mounting position fastening method height width	vertical mounting surface screw fixing 306 mm 185 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth	vertical mounting surface screw fixing 306 mm 185 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	vertical mounting surface screw fixing 306 mm 185 mm 203 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards	vertical mounting surface screw fixing 306 mm 185 mm 203 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards	vertical mounting surface screw fixing 306 mm 185 mm 203 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side	vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side	vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection	vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.6 kg
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit	vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.6 kg
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit	vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.6 kg
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.6 kg
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.6 kg box terminal screw-type terminals 25 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.6 kg box terminal screw-type terminals 25 mm 50 m
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.6 kg box terminal screw-type terminals 25 mm 50 m 150 m
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.6 kg box terminal screw-type terminals 25 mm 50 m
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.6 kg box terminal screw-type terminals 25 mm 50 m 150 m
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.6 kg box terminal screw-type terminals 25 mm 50 m 150 m 250 m 1x (2.5 16 mm²)
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5 mm 5.6 kg box terminal screw-type terminals 25 mm 50 m 150 m 250 m
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.6 kg box terminal screw-type terminals 25 mm 50 m 150 m 250 m 1x (2.5 16 mm²) 1x (2.5 50 mm²)
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	vertical mounting surface screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 5.6 kg box terminal screw-type terminals 25 mm 50 m 150 m 250 m 1x (2.5 16 mm²)

using the front clamping point	4x /0 F 4C mm ²
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 solidfor control circuit finely stranded with core end	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 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
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	
tightening torque [lbf·in]	40 52 lbf.in
for main contacts with screw-type terminals for auxiliary and control contacts with screw type	40 53 lbf·in 7 10.3 lbf·in
 for auxiliary and control contacts with screw-type terminals 	7 10.3 IDI'III
Ambient conditions	
	5 000 m: Derating as of 1000 m, see catalog
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
	5 000 m; Derating as of 1000 m, see catalog -25 +60 °C; Please observe derating at temperatures of 40 °C or above
installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or
installation altitude at height above sea level maximum ambient temperature • during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt
installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must
installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
installation altitude at height above sea level maximum ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A
installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A
installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes
installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A
installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes
installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes
installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • 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	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes
installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • 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	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A
installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • 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	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Yes Yes
installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • 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 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 High Faults at 460/480 V at inside-	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA
installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • 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 Standard Faults at 460/480 V at inside-delta circuit according to UL	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 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
installation altitude at height above sea level maximum ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • 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 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 High Faults at 460/480 V at inside-delta circuit according to UL	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A Yes Yes Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA

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

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



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=3RW5225-1TC14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5225-1TC14

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5225-1TC14

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

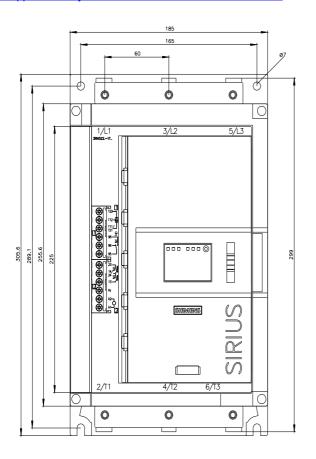
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5225-1TC14&lang=en

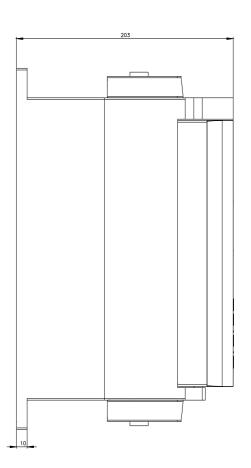
Characteristic: Tripping characteristics, I2t, Let-through current

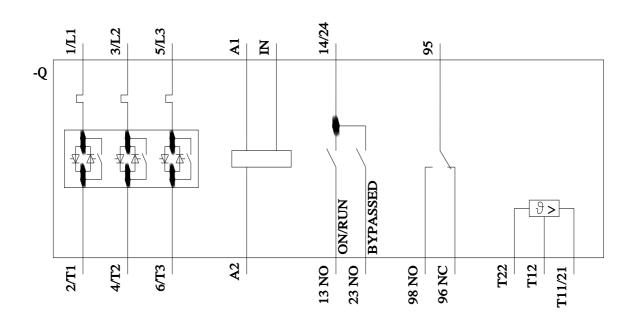
https://support.industry.siemens.com/cs/ww/en/ps/3RW5225-1TC14/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5225-1TC14&objecttype=14&gridview=view1







last modified: 9/13/2022 🖸