SIEMENS

Data sheet 3RW5244-6AC04



SIRIUS soft starter 200-480 V 250 A, 24 V AC/DC Screw terminals Analog output

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

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

3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

3VA2440-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

3VA2450-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10

2x3NA3354-6; Type of coordination 1, Iq = 65 kA

2x3NA3354-6; Type of coordination 1, Iq = 65 kA

3NE1331-0; Type of coordination 2, Iq = 65 kA

3NE3336; 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 assument singuit	100
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	1 600 V
service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
between main and auxiliary circuit	600 V
shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
vibration resistance	15 mm to 6 Hz; 2g to 500 Hz
utilization category according to IEC 60947-4-2	AC 53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	02/15/2018
product function	
ramp-up (soft starting)	Yes
ramp-down (soft stop)	Yes
Soft Torque	Yes
 adjustable current limitation 	Yes
pump ramp down	Yes
 intrinsic device protection 	Yes
 motor overload protection 	Yes; Electronic motor overload protection
 evaluation of thermistor motor protection 	No
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 	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
a firmurara un data	module Yes
 firmware update removable terminal for control circuit 	Yes
torque controlanalog output	No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature
• analog output	HMI)
Power Electronics	
operational current	
at 40 °C rated value	250 A
at 50 °C rated value	220 A
at 60 °C rated value	200 A
operational current at inside-delta circuit	
at 40 °C rated value	433 A
at 50 °C rated value	381 A
at 60 °C rated value	346 A
operating voltage	
• rated value	200 480 V
at inside-delta circuit rated value	200 480 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at	-15 %
inside-delta circuit	
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
 at 230 V at 40 °C rated value 	75 kW
• at 230 V at inside-delta circuit at 40 °C rated value	132 kW
 at 400 V at 40 °C rated value 	132 kW
• at 400 V at inside-delta circuit at 40 °C rated value	250 kW
Operating frequency 1 rated value	50 Hz

relative negative tolerance of the operating frequency adjustable motor current • at rotary coding switch on switch position 1 • at rotary coding switch on switch position 2 • at rotary coding switch on switch position 3 • 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 7 • at rotary coding switch on switch position 7 • at rotary coding switch on switch position 10 • at rotary coding switch on switch position 10 • 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 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 10 • at rotary coding switch on switch position 10 • 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 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 14 • 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 rotard-edelta circuit at rotary coding switch on switch position 10 • at rotard-edelta circuit at rotary coding switch on switch position 10 • at rotard-edelta circuit at rotary coding switch on switch position 11 • at rotard-edelta circuit at rotary coding switch on switch position 10 • a	Operating frequency 2 rated value	60 Hz
a lar total y coding switch on switch position 1 a lar total y coding switch on switch position 2 a lar total y coding switch on switch position 3 a lar total y coding switch on switch position 6 a lar total y coding switch on switch position 6 a lar total y coding switch on switch position 7 a lar total y coding switch on switch position 7 a lar total y coding switch on switch position 7 a lar total y coding switch on switch position 7 a lar total y coding switch on switch position 7 a lar total y coding switch on switch position 10 a lar total y coding switch on switch position 11 a lar total y coding switch on switch position 11 a lar total y coding switch on switch position 12 a lar total y coding switch on switch position 13 a lar total y coding switch on switch position 13 a lar total y coding switch on switch position 13 a lar total y coding switch on switch position 14 a lar total y coding switch on switch position 15 a lar total y coding switch on switch position 15 a lar total y coding switch on switch position 16 b minimum lar total y coding switch on switch position 16 b minimum lar total y coding switch on switch position 16 b minimum lar total y coding switch on switch position 16 b minimum lar total y coding switch on switch position 16 b minimum lar total y coding switch on switch position 16 b minimum lar total y coding switch on switch position 16 b minimum lar total y coding switch on switch position 16 b minimum lar total y coding switch on switch position 16 b minimum lar total y coding switch on switch position 16 b minimum lar total y coding switch on switch position 16 b minimum lar total y coding switch on switch position 16 b minimum lar total y coding switch on switch position 17 b minimum lar total y coding switch on switch position 18 b minimum lar total y coding switch on switch position 19 b minimum lar total y coding switch on switch position 19 b minimum lar total y coding switch on switch position 19 b minimum lar total y coding switch on switch position 19 b minimum lar total	relative negative tolerance of the operating frequency	-10 %
a trotary coding switch on switch position 2 a for totary coding switch on switch position 2 a for totary coding switch on switch position 4 a for totary coding switch on switch position 6 a for totary coding switch on switch position 7 a for totary coding switch on switch position 7 a for totary coding switch on switch position 7 a for totary coding switch on switch position 7 a for totary coding switch on switch position 9 a for totary coding switch on switch position 9 a for totary coding switch on switch position 9 a for totary coding switch on switch position 10 a for totary coding switch on switch position 11 b for for totary coding switch on switch position 11 a for for totary coding switch on switch position 13 a for for totary coding switch on switch position 13 a for for love coding switch on switch position 15 a for for love delta circuit at rotary coding switch on switch position 16 a for for love delta circuit at rotary coding switch on switch position 16 b for inside-delta circuit at rotary coding switch on switch position 16 b for inside-delta circuit at rotary coding switch on switch position 6 b for inside-delta circuit at rotary coding switch on switch position 6 b for inside-delta circuit at rotary coding switch on switch position 6 b for inside-delta circuit at rotary coding switch on switch position 7 b for inside-delta circuit at rotary coding switch on switch position 6 b for inside-delta circuit at rotary coding switch on switch position 6 b for inside-delta circuit at rotary coding switch on switch position 7 b for inside-delta circuit at rotary coding switch on switch position 10 b for inside-delta circuit at rotary coding switch on switch position 10 b for inside-delta circuit at rotary coding switch on switch position 10 b for inside-delta circuit at rotary coding switch on switch position 11 b for inside-delta circuit at rotary coding switch on switch position 12 b for inside-delta circuit at rotary coding switch on switch position 11 b for inside-delta circuit at rotary coding swit	relative positive tolerance of the operating frequency	10 %
a rit rotary coding switch on switch position 3 britished and switch on switch position 3 critished and switch on switch position 5 critished and switch on switch position 7 critished and switch on switch position 7 critished and switch on switch position 7 critished and switch on switch position 9 critished and switch on switch position 10 critished and switch on switch position 11 critished and switch on switch position 13 critished and switch on switch position 14 critished and switch on switch position 15 critished and switch position 16 critished and switch position 16 critished and switch on switch position 16 critished and switch position 17 critished and switch position 1	adjustable motor current	
a trotary coding switch on switch position 4 a trotary 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 19 at rotary coding switch on switch position 11 at rotary coding switch on switch position 11 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 13 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 17 at rotary coding switch on switch position 17 at rotary coding switch on switch position 17 at rotary coding switch	 at rotary coding switch on switch position 1 	100 A
a trotary coding switch on switch position 5 a for totary 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 19 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 15 at rotary coding switch on switch position 16 brinside-deflat circuit at rotary coding switch on switch position 1 brinside-deflat circuit at rotary coding switch on switch position 3 brinside-deflat circuit at rotary coding switch on switch position 3 brinside-deflat circuit at rotary coding switch on switch position 7 brinside-deflat circuit at rotary coding switch on switch position 7 brinside-deflat circuit at rotary coding switch on switch position 7 brinside-deflat circuit at rotary coding switch on switch position 11 brinside-deflat circuit at rotary coding switch on switch position 12 brinside-deflat circuit at rotary coding switch on switch position 12 brinside-deflat circuit at rotary coding switch on switch position 12 brinside-deflat circuit at rotary coding switch on switch position 12 brinside-deflat circuit at rotary coding switch on switch position 12 brinside-deflat circuit at rotary coding switch on switch position 14 brinside-deflat circuit at rotary codin	 at rotary coding switch on switch position 2 	110 A
a trotary coding switch on switch position 6 a trotary coding switch on switch position 6 a trotary 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 10 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 13 a trotary coding switch on switch position 14 a trotary coding switch on switch position 15 a trotary coding switch on switch position 16 a trotary coding switch on switch position 17 a trotary coding switch on switch position 18 b to inside-delta circuit at rotary coding switch on switch position 19 a trotary coding switch on switch position 19 b to inside-delta circuit at rotary coding switch on switch position 19 b to inside-delta circuit at rotary coding switch on switch position 11 b to inside-delta circuit at rotary coding switch on switch position 12 b to inside-delta circuit at rotary coding switch on switch position 19 b to inside-delta circuit at rotary coding switch on switch position 19 b to inside-delta circuit at rotary coding switch on switch position 19 b to inside-delta circuit at rotary coding switch on switch position 19 b to inside-delta circuit at rotary coding switch on switch position 19 b to inside-delta circuit at rotary coding switch on switch position	 at rotary coding switch on switch position 3 	120 A
a trotary coding switch on switch position 7 but rotary coding switch on switch position 7 but rotary coding switch on switch position 19 but rotary coding switch on switch position 10 but rotary coding switch on switch position 10 but rotary coding switch on switch position 12 but rotary coding switch on switch position 14 but rotary coding switch on switch position 16 but rotary coding switch on switch position 16 but rotary coding switch on switch position 16 but rotary coding switch on switch position 10 but resided edital circuit at rotary coding switch on switch position 3 but rotary coding switch on switch position 10 but rot	 at rotary coding switch on switch position 4 	130 A
a trotary coding switch on switch position 8 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 15 at rotary coding switch on switch position 15 at rotary coding switch on switch position 16 at rotary coding switch on switch position 173 by for inside-detate circuit at rotary coding switch on switch position 2 by for inside-detate circuit at rotary coding switch on switch position 3 by for inside-detate circuit at rotary coding switch on switch position 4 by for inside-detate circuit at rotary coding switch on switch position 6 by for inside-detate circuit at rotary coding switch on switch position 6 by for inside-detate circuit at rotary coding switch on switch position 1 by for inside-detate circuit at rotary coding switch on switch position 1 by for inside-detate circuit at rotary coding switch on switch position 1 by for inside-detate circuit at rotary coding switch on switch position 1 by for inside-detate circuit at rotary coding switch on switch position 1 by for inside-detate circuit at rotary coding switch on switch position 1 by for inside-detate circuit at rotary coding switch on switch position 1 by for inside-detate circuit at rotary coding switch on switch position 1 by for inside-detate circuit at rotary coding switch on switch position 1 by for inside-detate circuit at rotary coding switch on switch position 1 by for inside-detate circuit at rotary coding switch on switch position 1 by for inside-detate circuit at r		140 A
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 11 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 10 at rotary coding switch on switch position 16 at rotary coding switch on switch position 10 at rotary coding switch 10 at rot	 at rotary coding switch on switch position 6 	
a rotary coding switch on switch position 10 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 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 15 at rotary coding switch on switch position 16 at rotary coding switch on switch position 17 brinside-detal circuit at rotary coding switch on switch position 2 for inside-detal circuit at rotary coding switch on switch position 3 for inside-detal circuit at rotary coding switch on switch position 3 for inside-detal circuit at rotary coding switch on switch position 3 for inside-detal circuit at rotary coding switch on switch position 3 for inside-detal circuit at rotary coding switch on switch position 3 for inside-detal circuit at rotary coding switch on switch position 3 for inside-detal circuit at rotary coding switch on switch position 10 for inside-detal circuit at rotary coding switch on switch position 10 for inside-detal circuit at rotary coding switch on switch position 10 for inside-detal circuit at rotary coding switch on switch position 10 for inside-detal circuit at rotary coding switch on switch position 10 for inside-detal circuit at rotary coding switch on switch position 14 for inside-detal circuit at rotary coding switch on switch position 15 for inside-detal circuit at rotary coding switch on switch position 14 for inside-detal circuit at rotary coding switch on switch position 14 for inside-detal circuit at rotary coding switch on switch position 14 for inside-detal circuit at rotary coding switch on switch position 15 for inside-detal circuit at rotary coding switch on switch position 15 for inside-detal		
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 14 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 rotary coding switch on switch position 18 at rotary coding switch on switch position 19 at rotary coding switch 19 at rotar		
e at rotary coding switch on switch position 12 e at rotary coding switch on switch position 13 e at rotary coding switch on switch position 14 e at rotary coding switch on switch position 15 e at rotary coding switch on switch position 15 e at rotary coding switch on switch position 16 e at rotary coding switch on switch position 16 e at rotary coding switch on switch position 16 e at rotary coding switch on switch position 16 e at rotary coding switch on switch position 1 e for inside-deltal circuit at rotary coding switch on switch position 2 e for inside-deltal circuit at rotary coding switch on switch position 3 e for inside-deltal circuit at rotary coding switch on switch position 3 e for inside-deltal circuit at rotary coding switch on switch position 3 e for inside-deltal circuit at rotary coding switch on switch position 6 e for inside-deltal circuit at rotary coding switch on switch position 6 e for inside-deltal circuit at rotary coding switch on switch position 7 e for inside-deltal circuit at rotary coding switch on switch position 6 e for inside-deltal circuit at rotary coding switch on switch position 10 e for inside-deltal circuit at rotary coding switch on switch position 10 e for inside-deltal circuit at rotary coding switch on switch position 10 e for inside-deltal circuit at rotary coding switch on switch position 10 e for inside-deltal circuit at rotary coding switch on switch position 10 e for inside-deltal circuit at rotary coding switch on switch position 10 e for inside-deltal circuit at rotary coding switch on switch position 10 e for inside-deltal circuit at rotary coding switch on switch position 10 e for inside-deltal circuit at rotary coding switch on switch position 10 e for inside-deltal circuit at rotary coding switch on switch position 10 e for inside-deltal circuit at rotary coding switch on switch position 10 e for inside-deltal circuit at rotary coding switch on switch position 11 e for inside-deltal circuit at rotary coding switch on switch position 14 e for inside-deltal c		
a trotary 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 16 at rotary coding switch on switch position 17 of in inside-deltal circuit at rotary coding switch on switch position 1 of or inside-deltal circuit at rotary coding switch on switch position 2 of or inside-deltal circuit at rotary coding switch on switch position 3 of in sinde-deltal circuit at rotary coding switch on switch position 4 of in sinde-deltal circuit at rotary coding switch on switch position 4 of in sinde-deltal circuit at rotary coding switch on switch position 4 of in sinde-deltal circuit at rotary coding switch on switch position 6 of in sinde-deltal circuit at rotary coding switch on switch position 1 of in sinde-deltal circuit at rotary coding switch on switch position 1 of in sinde-deltal circuit at rotary coding switch on switch position 1 of in sinde-deltal circuit at rotary coding switch on switch position 12 of in sinde-deltal circuit at rotary coding switch on switch position 12 of in sinde-deltal circuit at rotary coding switch on switch position 14 of in sinde-deltal circuit at rotary coding switch on switch position 14 of in sinde-deltal circuit at rotary coding switch on switch position 14 of in sinde-deltal circuit at rotary coding switch on switch position 14 of in sinde-deltal circuit at rotary coding switch on switch position 14 of in sinde-deltal circuit at rotary coding switch on switch position 15 of circuit-deltal circuit at rotary coding switch on switch position 15 of circuit-deltal circuit at rotary coding switch on switch position 15 of circuit-deltal circuit at rotary coding switch on switch position 15 of circuit-deltal circuit at rotary coding switch on switch position 15 of circuit-deltal circuit at rotary coding switch on switch position 15 of circui		
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 16 at rotary coding switch on switch position 17 all public de-deta creation of switch position 18 at rotary coding switch on switch position 1 brown instinant position 1 at rotary coding switch on switch position 1 brown instinant position 1 at rotary coding switch on switch position 1 at rotary coding switch on switch position 1 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 5 at rotary coding switch on switch position 6 at rotary coding switch on switch position 6 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 1 at rotary coding switch on switch position 9 at rotary coding switch on switch position 1 at rotary		
at rotary coding switch on switch position 15 at rotary coding switch on switch position 15 at rotary coding switch on switch position 16 all minimum adjustable motor current • for inside-deflat circuit at rotary coding switch on switch position 1 • for inside-deflat circuit at rotary coding switch on switch position 2 • for inside-deflat circuit at rotary coding switch on switch position 3 • for inside-deflat circuit at rotary coding switch on switch position 5 • for inside-deflat circuit at rotary coding switch on switch position 5 • for inside-deflat circuit at rotary coding switch on switch position 5 • for inside-deflat circuit at rotary coding switch on switch position 5 • for inside-deflat circuit at rotary coding switch on switch position 6 • for inside-deflat circuit at rotary coding switch on switch position 7 • for inside-deflat circuit at rotary coding switch on switch position 8 • for inside-deflat circuit at rotary coding switch on switch position 9 • for inside-deflat circuit at rotary coding switch on switch position 10 • for inside-deflat circuit at rotary coding switch on switch position 10 • for inside-deflat circuit at rotary coding switch on switch position 11 • for inside-deflat circuit at rotary coding switch on switch position 12 • for inside-deflat circuit at rotary coding switch on switch position 12 • for inside-deflat circuit at rotary coding switch on switch position 13 • for inside-deflat circuit at rotary coding switch on switch position 13 • for inside-deflat circuit at rotary coding switch on switch position 10 • for inside-deflat circuit at rotary coding switch on switch position 11 • for inside-deflat circuit at rotary coding switch on switch position 15 • for inside-deflat circuit at rotary coding switch on switch position 15 • for inside-deflat circuit at rotary coding switch on switch position 19 • for inside-deflat circuit at rotary coding switch on switch position 19 • for inside-deflat circuit at rotary coding switch on switch position 19 • for inside-deflat circuit at		
al rotary coding switch on switch position 16 at rotary coding switch on switch position 16 al rotary coding switch on switch position 16 and imminimum adjustable motor current afor inside-detal acticult at rotary coding switch on switch position 2 afor inside-detal acticult at rotary coding switch on switch position 3 afor inside-detal acticult at rotary coding switch on switch position 4 afor inside-detal acticult at rotary coding switch on switch position 4 afor inside-detal acticult at rotary coding switch on switch position 6 afor inside-detal acticult at rotary coding switch on switch position 6 afor inside-detal acticult at rotary coding switch on switch position 6 afor inside-detal acticult at rotary coding switch on switch position 7 afor inside-detal acticult at rotary coding switch on switch position 1 afor inside-detal acticult at rotary coding switch on switch position 1 afor inside-detal acticult at rotary coding switch on switch position 13 afor inside-detal acticult at rotary coding switch on switch position 13 afor inside-detal acticult at rotary coding switch on switch position 15 afor inside-detal acticult at rotary coding switch on switch position 15 afor inside-detal acticult at rotary coding switch on switch position 15 brown inside-detal acticult at rotary coding switch on switch position 15 brown inside-detal acticult at rotary coding switch on switch position 15 brown inside-detal acticult at rotary coding switch on switch position 16 at inside-detal acticult at rotary coding switch on switch position 16 at inside-detal acticult at rotary coding switch on switch position 16 at inside-detal acticult at rotary coding switch on switch position 16 at inside-detal acticult at rotary coding switch on switch position 16 at inside-detal acticult at rotary coding switch on switch position 16 at inside-detal acticult at rotary coding switch on switch position 16 at inside-detal acticult at rotary coding switch on switch position 16 at inside-detal acticult at rotary coding switch on switch posit		
a trotary coding switch on switch position 16 minimum for inside-delta circuit at rotary coding switch on switch position 1 for inside-delta circuit at rotary coding switch on switch position 2 for inside-delta circuit at rotary coding switch on switch position 3 for inside-delta circuit at rotary coding switch on switch position 3 for inside-delta circuit at rotary coding switch on switch position 4 for inside-delta circuit at rotary coding switch on switch position 5 for inside-delta circuit at rotary coding switch on switch position 6 for inside-delta circuit at rotary coding switch on switch position 7 for inside-delta circuit at rotary coding switch on switch position 8 for inside-delta circuit at rotary coding switch on switch position 9 for inside-delta circuit at rotary coding switch on switch position 9 for inside-delta circuit at rotary coding switch on switch position 10 for inside-delta circuit at rotary coding switch on switch position 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 12 for inside-delta circuit at rotary coding switch on switch position 12 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 for inside-delta circuit at rotary coding switch on switch position 16 for inside-delta circuit at rotary coding switch on switch position 16 for inside-delta circuit at rotary coding switch on switch position 16 for inside-delta circuit at rotary coding switch on switch position 16 for inside-delta circuit at rotary coding switch on switch position 16 for inside-delta circuit at rotary coding switch on switch position 17 for inside-delta circuit at rotary coding switch on switch position 16 for inside-del	· · · · · · · · · · · · · · · · · · ·	
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 5 • for inside-delta circuit at rotary coding switch on switch position 6 • for inside-delta circuit at rotary coding switch on switch position 6 • for inside-delta circuit at rotary coding switch on switch position 7 • for inside-delta circuit at rotary coding switch on switch position 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 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 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 16 • for inside-delta circuit at rotary coding switch on switch position 16 • at in side-delta circuit at rotary coding switch on switch position 16 • at a side-delta circuit at rotary coding switch on switch position 16 • at a side-delta circuit at rotary coding switch on switch position 16 • at 60 °C after startup • at 50 °C during		
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 4 • for inside-delta circuit at rotary coding switch on switch position 5 • for inside-delta circuit at rotary coding switch on switch position 6 • for inside-delta circuit at rotary coding switch on switch position 7 • for inside-delta circuit at rotary coding switch on switch position 7 • for inside-delta circuit at rotary coding switch on switch position 7 • 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 15 • for inside-delta circuit at rotary coding switch on switch position 15 • for inside-delta circuit at rotary coding switch on switch position 15 • for inside-delta circuit at rotary coding switch on switch position 15 • for inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 17 • for inside-delta circuit at rotary coding switch on switch position 19 • for circuit-delta circuit at rotary		
for inside-delta circuit at rotary coding switch on switch position 1 for inside-delta circuit at rotary coding switch on switch position 3 for inside-delta circuit at rotary coding switch on switch position 3 for inside-delta circuit at rotary coding switch on switch position 4 for inside-delta circuit at rotary coding switch on switch position 5 for inside-delta circuit at rotary coding switch on switch position 6 for inside-delta circuit at rotary coding switch on switch position 7 for inside-delta circuit at rotary coding switch on switch position 8 for inside-delta circuit at rotary coding switch on switch position 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 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 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 10 °C after startup at 60 °C after startup at 60 °C after startup at 60 °C during startup startup		100 A
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 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 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 17 • for inside-delta circuit at rotary coding switch on switch position 19 • at 60 °C after startup • at 50 °C after startup • at 60 °C during startup • at 6	•	173 Δ
for inside-detta circuit at rotary coding switch on switch position 2 for inside-detta circuit at rotary coding switch on switch position 3 for inside-detta circuit at rotary coding switch on switch position 4 for inside-detta circuit at rotary coding switch on switch position 5 for inside-detta circuit at rotary coding switch on switch position 6 for inside-detta circuit at rotary coding switch on switch position 6 for inside-detta circuit at rotary coding switch on switch position 7 for inside-detta circuit at rotary coding switch on switch position 8 for inside-detta circuit at rotary coding switch on switch position 9 for inside-detta circuit at rotary coding switch on switch position 9 for inside-detta circuit at rotary coding switch on switch position 10 for inside-detta circuit at rotary coding switch on switch position 10 for inside-detta circuit at rotary coding switch on switch position 12 for inside-detta circuit at rotary coding switch on switch position 12 for inside-detta circuit at rotary coding switch on switch position 13 for inside-detta circuit at rotary coding switch on switch position 14 for inside-detta circuit at rotary coding switch on switch position 13 for inside-detta circuit at rotary coding switch on switch position 14 for inside-detta circuit at rotary coding switch on switch position 14 for inside-detta circuit at rotary coding switch on switch position 14 for inside-detta circuit at rotary coding switch on switch position 15 for inside-detta circuit at rotary coding switch on switch position 16 for inside-detta circuit at rotary coding switch on switch position 16 for inside-detta circuit at rotary coding switch on switch position 16 for inside-detta circuit at rotary coding switch on switch position 16 for inside-detta circuit at rotary coding switch on switch position 16 for inside-detta circuit at rotary coding switch on switch position 16 for inside-detta circuit at rotary coding switch on switch position 17 for inside-detta circuit at rotary coding switch on switch position		1100
• for inside-delta circuit at rotary coding switch on switch position 3 • for inside-delta circuit at rotary coding switch on switch position 5 • for inside-delta circuit at rotary coding switch on switch position 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 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 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 19 • at 10 °C after startup • at 40 °C after startup • at 60 °C after startup • at 40 °C during startup • at 60 °C dur	for inside-delta circuit at rotary coding switch on	191 A
switch position 4 • for inside-delta circuit at rotary coding switch on switch position 5 • for inside-delta circuit at rotary coding switch on switch position 6 • for inside-delta circuit at rotary coding switch on switch position 7 • for inside-delta circuit at rotary coding switch on switch position 8 • for inside-delta circuit at rotary coding switch on switch position 8 • for inside-delta circuit at rotary coding switch on switch position 9 • for inside-delta circuit at rotary coding switch on switch position 10 • for inside-delta circuit at rotary coding switch on switch position 11 • for inside-delta circuit at rotary coding switch on switch position 12 • for inside-delta circuit at rotary coding switch on switch position 12 • for inside-delta circuit at rotary coding switch on switch position 13 • for inside-delta circuit at rotary coding switch on switch position 14 • for inside-delta circuit at rotary coding switch on switch position 15 • for inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit minimum minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup • at 60 °C after startup • at 60 °C after startup • at 60 °C during startup		208 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 14 • for inside-delta circuit at rotary coding switch on switch position 14 • for inside-delta circuit at rotary coding switch on switch position 15 • for inside-delta circuit at rotary coding switch on switch position 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 or conside-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 • at 0° c after startup • at 50 ° C after startup • at 60 ° C after startup • at 60 ° C after startup • at 60 ° C during startup • a		
switch position 6 • for inside-delta circuit at rotary coding switch on switch position 7 • for inside-delta circuit at rotary coding switch on switch position 8 • for inside-delta circuit at rotary coding switch on switch position 9 • for inside-delta circuit at rotary coding switch on switch position 10 • for inside-delta circuit at rotary coding switch on switch position 11 • for inside-delta circuit at rotary coding switch on switch position 12 • for inside-delta circuit at rotary coding switch on switch position 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 minimum minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup • at 60 °C after startup • at 60 °C during startup	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 11 • for inside-delta circuit at rotary coding switch on switch position 12 • for inside-delta circuit at rotary coding switch on switch position 13 • for inside-delta circuit at rotary coding switch on switch position 14 • for inside-delta circuit at rotary coding switch on switch position 14 • for inside-delta circuit at rotary coding switch on switch position 16 • at 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 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 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at 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	switch position 7	
switch position 9 • for inside-delta circuit at rotary coding switch on switch position 10 • for inside-delta circuit at rotary coding switch on switch position 11 • for inside-delta circuit at rotary coding switch on switch position 12 • for inside-delta circuit at rotary coding switch on switch position 13 • for inside-delta circuit at rotary coding switch on switch position 14 • for inside-delta circuit at rotary coding switch on switch position 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 40 °C during startup • at 60 °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 at rotary coding switch on switch position 16 • at inside-delta circuit minimum 173 A 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 50 °C during startup at 60 °C during startup	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 60 °C after startup • at 40 °C during startup • at 40 °C during startup • at 60 °C during startup	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 173 A minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup at 60 °C after startup power loss [W] at AC at current limitation 350 % • at 40 °C during startup at 60 °C during startup	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 at inside-delta circuit minimum for ated value of the current at AC at 40 °C after startup at 60 °C after startup at 60 °C during startup at 40 °C during startup at 60 °C during startup<th>switch position 12</th><th></th>	switch position 12	
switch position 14 • for inside-delta circuit at rotary coding switch on switch position 15 • for inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit minimum 173 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	switch position 13	
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 50 °C during startup • at 60 °C during startup	switch position 14	
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 power loss [W] at AC at current limitation 350 % • at 40 °C during startup 3 818 W • at 50 °C during startup • at 60 °C during startup	switch position 15	
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	switch position 16	
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		
 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 2 799 W Control circuit/ Control type of voltage of the control supply voltage AC/DC		,
 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 2 799 W Control circuit/ Control type of voltage of the control supply voltage AC/DC		87 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 2 799 W Control circuit/ Control type of voltage of the control supply voltage AC/DC	•	
power loss [W] at AC at current limitation 350 % • at 40 °C during startup	•	
 at 40 °C during startup at 50 °C during startup at 60 °C during startup 2 799 W Control circuit/ Control type of voltage of the control supply voltage AC/DC	•	
at 60 °C during startup Control circuit/ Control type of voltage of the control supply voltage AC/DC	•	3 818 W
Control circuit/ Control type of voltage of the control supply voltage AC/DC	 at 50 °C during startup 	3 188 W
type of voltage of the control supply voltage AC/DC	 at 60 °C during startup 	2 799 W
	Control circuit/ Control	
control supply voltage at AC	type of voltage of the control supply voltage	AC/DC
	control supply voltage at AC	

 at 50 Hz rated value 	24 V
 at 60 Hz rated value 	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage frequency	-10 %
relative positive tolerance of the control supply voltage frequency	10 %
control supply voltage	
 at DC rated value 	24 V
relative negative tolerance of the control supply voltage at DC	-20 %
relative positive tolerance of the control supply voltage at DC	20 %
control supply current in standby mode rated value	160 mA
holding current in bypass operation rated value	470 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	
number of digital inputs	1
number of digital outputs	3
 not parameterizable 	2
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	1
switching capacity current of the relay outputs	
• at AC-15 at 250 V rated value	3 A
at DC-13 at 24 V rated value	1 A
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting
for the color of the second second	surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
height	393 mm
width	210 mm
depth	203 mm
required spacing with side-by-side mounting	10 mm
• forwards	10 mm
backwards upwards	0 mm 100 mm
upwards downwards	75 mm
downwards at the side	
≠ at the side	
	5 mm
weight without packaging	
weight without packaging Connections/ Terminals	5 mm
weight without packaging Connections/ Terminals type of electrical connection	5 mm 9.9 kg
weight without packaging Connections/ Terminals type of electrical connection • for main current circuit	5 mm 9.9 kg busbar connection
weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit	5 mm 9.9 kg busbar connection screw-type terminals
weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum	5 mm 9.9 kg busbar connection
weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum type of connectable conductor cross-sections	5 mm 9.9 kg busbar connection screw-type terminals 45 mm
weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded	5 mm 9.9 kg busbar connection screw-type terminals 45 mm 2x (50 240 mm²)
weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded	5 mm 9.9 kg busbar connection screw-type terminals 45 mm
weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections	5 mm 9.9 kg busbar connection screw-type terminals 45 mm 2x (50 240 mm²) 2x (70 240 mm²)
weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections • for control circuit solid	5 mm 9.9 kg busbar connection screw-type terminals 45 mm 2x (50 240 mm²) 2x (70 240 mm²) 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections	5 mm 9.9 kg busbar connection screw-type terminals 45 mm 2x (50 240 mm²) 2x (70 240 mm²)

at AWG cables for control circuit solid wire longth	1x (20 12), 2x (20 14)
wire length	000
between soft starter and motor maximum	800 m
at the digital inputs at AC maximum	100 m
 at the digital inputs at DC maximum 	1 000 m
tightening torque	
 for main contacts with screw-type terminals 	14 24 N·m
 for auxiliary and control contacts with screw-type 	0.8 1.2 N·m
terminals	
tightening torque [lbf·in]	
 for main contacts with screw-type terminals 	124 210 lbf⋅in
 for auxiliary and control contacts with screw-type 	7 10.3 lbf·in
terminals	
Ambient conditions	
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
ambient temperature	
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or
	above
 during storage and transport 	-40 +80 °C
environmental category	
 during operation according to IEC 60721 	3K6 (no ice formation, only occasional condensation), 3C3 (no salt
. .	mist), 3S2 (sand must not get into the devices), 3M6
 during storage according to IEC 60721 	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must
	not get inside the devices), 1M4
 during transport according to IEC 60721 	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
EMC emitted interference	acc. to IEC 60947-4-2: Class A
Communication/ Protocol	
communication module is supported	
PROFINET standard	Yes
EtherNet/IP	Yes
Modbus RTU	Yes
Modbus TCP	Yes
PROFIBUS	Yes
• I KOI IBOO	103
III /CSA notings	
UL/CSA ratings	
manufacturer's article number	
manufacturer's article number of circuit breaker	0: 1 0)/450 400 4 0)/454 000 4 1 40 14
manufacturer's article number	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA
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	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65
manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL	
manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA
manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq max = 65 kA
manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA
 manufacturer's article number of circuit breaker usable for Standard Faults at 460/480 V according to UL usable for High Faults at 460/480 V according to UL usable for Standard Faults at 460/480 V at inside-delta circuit according to UL usable for High Faults at 460/480 V at inside-delta circuit according to UL usable for Standard Faults at 575/600 V 	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq max = 65 kA
manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V according to UL	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA54, max. 600 A; lq = 18 kA Siemens type: 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA
manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at 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	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA
manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at 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	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA
manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at 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	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Type: Class J / L, max. 800 A; Iq = 18 kA
manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at 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 Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA
manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at 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 — 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 High Faults up to 575/600 V according to UL — usable for Standard Faults at inside-delta	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Type: Class J / L, max. 800 A; Iq = 18 kA
manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at 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 — 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 Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Type: Class J / L, max. 800 A; Iq = 18 kA Type: Class J / L, max. 800 A; Iq = 100 kA
manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at 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 — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL — usable for High Faults at inside-delta circuit up to 575/600 V according to UL	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Type: Class J / L, max. 800 A; Iq = 18 kA Type: Class J / L, max. 800 A; Iq = 100 kA Type: Class J / L, max. 800 A; Iq = 18 kA
manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at 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 — usable for Standard Faults up to 575/600 V according to UL — 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 — usable for High 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 — usable for High Faults at inside-delta circuit up to 575/600 V according to UL	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Type: Class J / L, max. 800 A; Iq = 18 kA Type: Class J / L, max. 800 A; Iq = 100 kA Type: Class J / L, max. 800 A; Iq = 100 kA Type: Class J / L, max. 800 A; Iq = 100 kA
 manufacturer's article number of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at 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 — 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 	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Type: Class J / L, max. 800 A; Iq = 18 kA Type: Class J / L, max. 800 A; Iq = 100 kA Type: Class J / L, max. 800 A; Iq = 18 kA Type: Class J / L, max. 800 A; Iq = 100 kA
manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at 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 — usable for Standard Faults up to 575/600 V according to UL — 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 — usable for High 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 — usable for High 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 — usable for High Faults at inside-delta circuit up to 575/600 V according to UL	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Type: Class J / L, max. 800 A; Iq = 18 kA Type: Class J / L, max. 800 A; Iq = 100 kA Type: Class J / L, max. 800 A; Iq = 18 kA Type: Class J / L, max. 800 A; Iq = 100 kA 60 hp 75 hp
manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at 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 — usable for Standard Faults up to 575/600 V according to UL — 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 — usable for High 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 — usable for High 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 — usable for High 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 — usable for High 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 — usable for High 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 — usable for High Faults at inside-delta circuit up to 575/600 V according to UL	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA54, max. 600 A; lq = 18 kA Siemens type: 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA Siemens type: 3VA54, max. 600 A; lq = 18 kA Type: Class J / L, max. 800 A; lq = 18 kA Type: Class J / L, max. 800 A; lq = 100 kA Type: Class J / L, max. 800 A; lq = 100 kA Type: Class J / L, max. 800 A; lq = 100 kA
• of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at 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 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 — 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 460/480 V at 50 °C rated value • at 200/208 V at inside-delta circuit at 50 °C rated • at 200/208 V at inside-delta circuit at 50 °C rated	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Type: Class J / L, max. 800 A; Iq = 18 kA Type: Class J / L, max. 800 A; Iq = 100 kA Type: Class J / L, max. 800 A; Iq = 18 kA Type: Class J / L, max. 800 A; Iq = 100 kA 60 hp 75 hp
• of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at 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 according to UL — usable for Standard Faults at 575/600 V at inside-delta circuit according to UL — 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 — usable for High 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 460/480 V at 50 °C rated value • at 200/208 V at inside-delta circuit at 50 °C rated value • at 200/208 V at inside-delta circuit at 50 °C rated value	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Type: Class J / L, max. 800 A; Iq = 18 kA Type: Class J / L, max. 800 A; Iq = 100 kA Type: Class J / L, max. 800 A; Iq = 100 kA Type: Class J / L, max. 800 A; Iq = 100 kA
• of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 575/600 V 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 — usable for Standard Faults up to 575/600 V according to UL — 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 460/480 V at 50 °C rated value • at 200/208 V at inside-delta circuit 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 220/230 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA54, max. 600 A; lq = 18 kA Siemens type: 3VA54, max. 600 A; lq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; lq = 18 kA Siemens type: 3VA54, max. 600 A; lq = 18 kA Type: Class J / L, max. 800 A; lq = 18 kA Type: Class J / L, max. 800 A; lq = 100 kA Type: Class J / L, max. 800 A; lq = 100 kA Type: Class J / L, max. 800 A; lq = 100 kA
• of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 575/600 V 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 — usable for Standard Faults up to 575/600 V according to UL — 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 High 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 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 220/230 V at inside-delta circuit at 50 °C rated value	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Type: Class J / L, max. 800 A; Iq = 18 kA Type: Class J / L, max. 800 A; Iq = 100 kA Type: Class J / L, max. 800 A; Iq = 100 kA Type: Class J / L, max. 800 A; Iq = 100 kA 60 hp 75 hp 150 hp 150 hp
• of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for High Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 575/600 V 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 — usable for Standard Faults up to 575/600 V according to UL — 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 460/480 V at 50 °C rated value • at 200/208 V at inside-delta circuit 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 220/230 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq max = 65 kA Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA Siemens type: 3VA54, max. 600 A; Iq = 18 kA Type: Class J / L, max. 800 A; Iq = 18 kA Type: Class J / L, max. 800 A; Iq = 100 kA Type: Class J / L, max. 800 A; Iq = 100 kA Type: Class J / L, max. 800 A; Iq = 100 kA

contact rating of auxiliary contacts according to UL

Safety related data

protection class IP on the front according to IEC
60529
touch protection on the front according to IEC 60529
electromagnetic compatibility

R300-B300

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=3RW5244-6AC04

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5244-6AC04}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5244-6AC04

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5244-6AC04&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

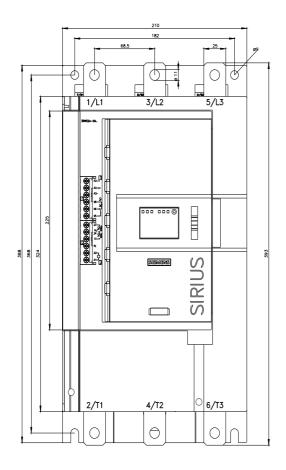
https://support.industry.siemens.com/cs/ww/en/ps/3RW5244-6AC04/char

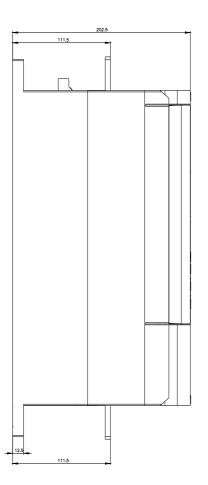
Characteristic: Installation altitude

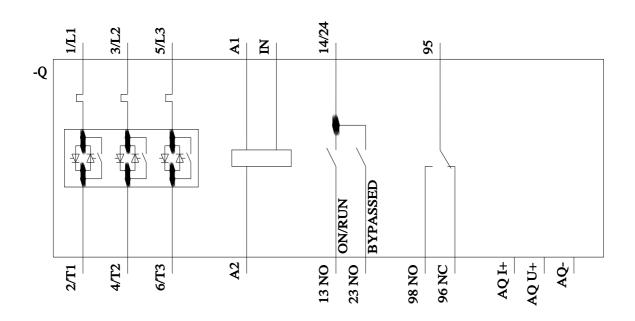
 $\underline{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5244-6AC04\&objecttype=14\&gridview=view1.pdf}$

Simulation Tool for Soft Starters (STS)

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







last modified: 4/10/2022 🖸