SIEMENS

Data sheet 3RW5215-1AC04



SIRIUS soft starter 200-480 V 25 A, 24 V AC/DC Screw terminals Analog output

50656	
product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW52
manufacturer's article number	
 of standard HMI module usable 	3RW5980-0HS00
 of high feature HMI module usable 	3RW5980-0HF00
 of communication module PROFINET standard usable 	3RW5980-0CS00
 of communication module PROFIBUS usable 	3RW5980-0CP00
 of communication module Modbus TCP usable 	3RW5980-0CT00
 of communication module Modbus RTU usable 	3RW5980-0CR00
 of communication module Ethernet/IP 	3RW5980-0CE00
 of circuit breaker usable at 400 V 	3RV2032-4EA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3RV2032-4EA10; Type of coordination 1, Iq = 15 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3RV2032-4VA10: Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3RV2032-4VA10; Type of coordination 1, Iq = 15 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3822-6; Type of coordination 1, Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	3NA3822-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1817-0; Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE8021-1; Type of coordination 2, Iq = 65 kA
eneral technical data	

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

trin class	CLASS 10A (default) / 10E / 20E; 200, to IEC 60047 4.2
trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2
buffering time in the event of power failure	100 mg
for main current circuit for control 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	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	
• 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 module
firmware update	Yes
 removable terminal for control circuit 	Yes
torque control	No
analog output	Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)
Power Electronics	
operational current	
 at 40 °C rated value 	25 A
 at 50 °C rated value 	22 A
• at 60 °C rated value	20 A
operational current at inside-delta circuit	
 at 40 °C rated value 	43.3 A
 at 50 °C rated value 	39 A
at 60 °C rated value	33.9 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 positive tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit	10 % -15 %
relative negative tolerance of the operating voltage at	

e at 400 V at Inside-delta circuit at 40 °C rated value at 400 V at Inside-delta circuit at 40 °C rated value 50 Porating frequency 1 rated value 60 Hz 60 Parting frequency 2 rated value 60 Hz 60 Parting frequency 2 rated value 60 Hz 61 Parting frequency 2 rated value 60 Hz 61 Parting frequency 2 rated value 62 Parting frequency 2 rated value 63 Parting frequency 2 rated value 64 Parting frequency 2 rated value 65 Parting frequency 2 rated value 66 Parting frequency 2 rated value 66 Parting frequency 2 rated value 67 Parting frequency 2 rated value 68 Parting frequency 2 rated value 68 Parting frequency 2 rated value 69 Parting frequency 2 rated value 60 Parting frequency 1 rated value 60 Parting frequency 1 rated value 60 Parting frequency 1 rated valu	at 220 V at 40 °C rated value	E E IAM
and 400 V at 40 °C rated value and 400 V at 40 °C rated value Operating frequency 1 rated value Operating frequency 2 rated value 10 % Obligation of the control of the operating frequency relative positive 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 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 8 • at rotary 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 11 • 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 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 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 16 • 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 16 • 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 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 • at rota	• at 230 V at 40 °C rated value	5.5 kW
on 400 V at inside-delta circuit at 40°C rated value Operating frequency 1 rated value Coparating frequency 2 rated value relative negative tolerance of the operating frequency adjustable motor current on torolary coding switch on switch position 1 on trolary coding switch on switch position 3 on trolary coding switch on switch position 5 on trolary coding switch on switch position 5 on trolary coding switch on switch position 6 on trolary coding switch on switch position 7 on trolary coding switch on switch position 7 on trolary coding switch on switch position 7 on trolary coding switch on switch position 10 on trolary coding switch on switch position 10 on trolary coding switch on switch position 10 on trolary coding switch on switch position 12 on trolary coding switch on switch position 12 on trolary coding switch on switch position 14 on trolary coding switch on switch position 15 on trolary coding switch on switch position 15 on trolary coding switch on switch position 16 on trolary coding switch on switch position 16 on trolary coding switch on switch position 16 on trolary coding switch on switch position 19 on trolary coding switch on switch position 19 on trolary coding switch on switch position 19 on trolary coding switch 10 on tro		
Operating frequency 1 rated value Operating frequency 2 rated value relative ngative tolerance of the operating frequency relative positive 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 4 • at rotary coding switch on switch position 4 • 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 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 13 • 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 • 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 16 • 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 16 • 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 16 • at rotary coding switch on switch position 16 • at rotary coding switch 10 • at rotary coding switch		
Operating frequency 2 rated value relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency adjustable motor current • at rotary coding switch on switch position 1 • at rotary coding switch on switch position 3 • at rotary coding switch on switch position 3 • at rotary coding switch on switch position 5 • at rotary coding switch on switch position 5 • 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 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 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 16 • 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 16 • 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 16 • 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 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 • at rotary coding switch 10 • at rotary coding switch 10 • at rotary coding switch 10 • at rotary coding swit		
relative positive 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 3 • at rotary coding switch on switch position 5 • 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 1 • at rotary coding switch on switch position 1 • at rotary 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 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 16 • 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 16 • 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 16 • for inside-detal circult at rotary coding switch on switch position 6 • for inside-detal circult at rotary coding switch on switch position 6 • for inside-detal circult at rotary coding switch on switch position 6 • for inside-detal circult at rotary coding switch on switch position 6 • for inside-detal circult at rotary coding switch on switch position 6 • for inside-detal circult at rotary coding switch on switch position 7 • for inside-detal circult at rotary coding switch on switch position 10 • for inside-detal circult at rotary coding switch on switch position 10 • for inside-detal circult at rotary coding switch on s		
adjustable motor current if total coding switch on switch position 1 if total coding switch on switch position 2 if total coding switch on switch position 3 if total coding switch on switch position 3 if total coding switch on switch position 5 if total coding switch on switch position 5 if total coding switch on switch position 7 if total coding switch on switch position 1 if total coding switch on switch positio	,	
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 4 • at rotary coding switch on switch position 5 • 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 9 • at rotary coding switch on switch position 10 • 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 14 • 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 16 • 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 10 • 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 10 • 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 10 • 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 co		
e at rotary coding switch on switch position 1 et rotary coding switch on switch position 3 et rotary coding switch on switch position 3 et rotary coding switch on switch position 5 et rotary coding switch on switch position 6 et rotary coding switch on switch position 6 et rotary coding switch on switch position 7 et rotary coding switch on switch position 7 et rotary coding switch on switch position 7 et rotary coding switch on switch position 10 et rotary coding switch on switch position 12 et rotary coding switch on switch position 12 et rotary coding switch on switch position 13 et rotary coding switch on switch position 14 et rotary coding switch on switch position 15 et rotary coding switch on switch position 15 et rotary coding switch on switch position 16 et rotary coding switch on switch position 16 et rotary coding switch on switch position 16 et rotinside-detacticul at rotary coding switch on switch position 1 et rotinside-detacticul at rotary coding switch on switch position 1 et rotinside-detacticul at rotary coding switch on switch position 2 et rotinside-detacticul at rotary coding switch on switch position 2 et rotinside-detacticul at rotary coding switch on switch position 6 et rot inside-detacticul at rotary coding switch on switch position 6 et rot inside-detacticul at rotary coding switch on switch position 6 et rot inside-detacticul at rotary coding switch on switch position 6 et rotary coding switch on switch position 9 et rotary code detacticul at rotary coding switch on switch position 1 et rotary coding switch et rotary coding switch on switch position 1 et rotary coding switch ed to r		10 %
a it 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 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 7 at rotary coding switch on switch position 9 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 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 16 at rotary coding switch on switch position 17 for inside-delta circuit at rotary coding switch on switch position 1 for inside-delta circuit at rotary coding switch on switch position 2 for inside-delta circuit at rotary coding switch on switch position 2 for inside-delta circuit at rotary coding switch on switch position 3 for inside-delta circuit at rotary coding switch on switch position 3 for inside-delta circuit at rotary coding switch on switch position 4 for inside-delta circuit at rotary coding switch on switch position 4 for inside-delta circuit at rotary coding switch on switch position 1 for inside-delta circuit at rotary coding switch on switch position 1 for inside-delta circuit at rotary coding switch on switch position 1 for inside-delta circuit at rotary coding switch on switch position 1 for inside-delta circuit at rotary coding switch on switch position 1 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 for insi	•	11 5 A
at rotary coding switch on switch position 3 at rotary coding switch on switch position 5 at rotary coding switch on switch position 5 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 10 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 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 10 of inside-delta 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 5 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 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-delta circuit at rotary coding switch on switch position 13 of inside-delta circuit at rotary coding switch on switch position 13 of inside-delta circuit at rotary coding switch on switch position 13 of inside-delta circuit at rotary coding switch on switch position 15 of inside-delta circuit at rotary coding switch on switch position 15 of inside-delta circuit at rotary coding switch on switch position		
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 8 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 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 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 18 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 at rotary coding switch on switch position 3 at rotary coding switch at rotary coding switch on switch position 3 at rotary coding switch 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 10 at rotary coding switch on switch position 10 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 c		
e at rotary coding switch on switch position 5 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 19 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 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 at rotary coding switch on switch position 18 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 2 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 4 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 rinside-delta circuit at rotary coding switch on switch position 6 at rinside-delta circuit at rotary coding switch on switch position 9 at rinside-delta circuit at rotary coding switch on switch position 10 at rinside-delta circuit at rotary coding switch on switch position 13 at rotary code delta circuit at rotary coding switch on switch position 13 at rotary code delta circuit at rotary coding switch on switch position 13 at rotary code delta circuit at rotary coding switch on switch position 13 at rotary code delta circuit at rotary coding switch on switch position 14 at rotary code delta circuit at rotary coding switch on switch position 14 at rotary code delta	,	
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 10 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 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 on switch position 19 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 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 coding switch on switch		
at rotary coding switch on switch position 7 at rotary coding switch on switch position 9 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 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 minimum 11.5 A adjustable motor current of in inside-delta circuit at rotary coding switch on switch position 1 of inside-delta circuit at rotary coding switch on switch position 2 of 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 7 of in inside-delta circuit at rotary coding switch on switch position 9 of inside-delta circuit at rotary coding switch on switch position 9 of inside-delta circuit at rotary coding switch on switch position 9 of inside-delta circuit at rotary coding switch on switch position 9 of inside-delta circuit at rotary coding switch on switch position 9 of inside-delta circuit at rotary coding switch on switch position 19 of inside-delta circuit at rotary coding switch on switch position 14 of inside-delta circuit at rotary coding switch on switch position 14 of inside-delta circuit at rotary coding switch on switch position 15 of inside-delta circuit at rotary coding switch on switch position 15 of inside-delta circuit at rotary coding switch on switch position 15 of inside-delta circuit at rotary coding switch on switch position 16 of inside-delta circuit at rotary coding switch on switch position 16 of inside-delta circuit at rotary coding switch on		
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 11 20.5 A 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 14 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 17 for inside-dettal circuit at rotary coding switch on switch position 2 for inside-dettal circuit at rotary coding switch on switch position 4 for inside-dettal circuit at rotary coding switch on switch position 5 for inside-dettal circuit at rotary coding switch on switch position 5 for inside-dettal circuit at rotary coding switch on switch position 6 for inside-dettal circuit at rotary coding switch on switch position 8 for inside-dettal circuit at rotary coding switch on switch position 19 for inside-dettal circuit at rotary coding switch on switch position 19 for inside-dettal circuit at rotary coding switch on switch position 12 for inside-dettal circuit at rotary coding switch on switch position 12 for inside-dettal circuit at rotary coding switch on switch position 12 for inside-dettal circuit at rotary coding switch on switch position 12 for inside-dettal circuit at rotary coding switch on switch position 12 for inside-dettal circuit at rotary coding switch on switch position 12 for inside-dettal circuit at rotary coding switch on switch position 12 for inside-dettal circuit at rotary coding switch on switch position 15 for inside-dettal circuit at rotary coding switch on switch position 16 for inside-dettal circuit at rotary codi		
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 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 1 for inside-deltal circuit at rotary coding switch on switch position 2 for inside-deltal circuit at rotary coding switch on switch position 3 for inside-deltal circuit at rotary coding switch on switch position 4 for inside-deltal circuit at rotary coding switch on switch position 5 for inside-deltal circuit at rotary coding switch on switch position 6 for inside-deltal circuit at rotary coding switch on switch position 7 for inside-deltal circuit at rotary coding switch on switch position 7 for inside-deltal circuit at rotary coding switch on switch position 7 for inside-deltal circuit at rotary coding switch on switch position 7 for inside-deltal circuit at rotary coding switch on switch position 10 for inside-deltal circuit at rotary coding switch on switch position 10 for inside-deltal circuit at rotary coding switch on switch position 13 for inside-deltal circuit at rotary coding switch on switch position 13 for inside-deltal circuit at rotary coding switch on switch position 13 for inside-deltal circuit at rotary coding switch on switch position 13 for inside-deltal circuit at rotary coding switch on switch position 13 for inside-deltal circuit at rotary coding switch on switch position 15 for inside-deltal circuit at rotary coding switch on switch position 16 for inside-deltal circuit at rotary coding switch on switch position 1		
at rotary coding switch on switch position 10 at rotary coding switch on switch position 11 20.5 A 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 15 at rotary coding switch on switch position 16 at rotary coding switch on switch position 1 adjustable motor current for inside-delta circuit at rotary coding switch on switch position 2 adjustable motor current for inside-delta circuit at rotary coding switch on switch position 2 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 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 14 for inside-delta circuit at rotary coding switch on switch position 14 for inside-delta circuit at rotary coding switch on switch position 14 for inside-delta circuit at rotary coding switch on switch position 14 for inside-delta circuit at rotary coding switch on switch position 14 for inside-delta circuit at rotary coding switch on switch position 14 for inside-delta circuit at rotary coding switch on switch position 14 for inside-delta circuit at rotary coding switch on s		
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 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 16 minimum adjustable motor current for inside-delta circuit at rotary coding switch on switch position 2 for inside-delta circuit at rotary coding switch on switch position 2 for inside-delta circuit at rotary coding switch on switch position 3 for inside-delta circuit at rotary coding switch on switch position 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 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 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 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 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 circ	,	
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 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 minimum adjustable motor current for inside-deta 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 6 for inside-delta circuit at rotary coding switch on switch position 6 for inside-delta circuit at rotary coding switch on switch position 7 for inside-delta circuit at rotary coding switch on switch position 8 for inside-delta circuit at rotary coding switch on switch position 9 for inside-delta circuit at rotary coding switch on switch position 10 for inside-delta circuit at rotary coding switch on switch position 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 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		1000
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 minimum 11.5 A adjustable motor current for inside-delta circuit at rotary coding switch on switch position 1 for inside-delta circuit at rotary coding switch on switch position 2 for inside-delta circuit at rotary coding switch on switch position 3 for inside-delta circuit at rotary coding switch on switch position 3 for inside-delta circuit at rotary coding switch on switch position 4 for inside-delta circuit at rotary coding switch on switch position 5 for inside-delta circuit at rotary coding switch on switch position 6 for inside-delta circuit at rotary coding switch on switch position 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 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 14 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 swit		
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 and immum 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 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 4 for inside-delta circuit at rotary coding switch on switch position 6 for inside-delta circuit at rotary coding switch on switch position 7 for inside-delta circuit at rotary coding switch on switch position 7 for inside-delta circuit at rotary coding switch on switch position 8 for inside-delta circuit at rotary coding switch on switch position 8 for inside-delta circuit at rotary coding switch on switch position 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 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 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 po	,	
 at rotary coding switch on switch position 15 at rotary coding switch on switch position 16 minimum 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 6 for inside-delta circuit at rotary coding switch on switch position 6 for inside-delta circuit at rotary coding switch on switch position 7 for inside-delta circuit at rotary coding switch on switch position 8 for inside-delta circuit at rotary coding switch on switch position 8 for inside-delta circuit at rotary coding switch on switch position 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 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		
 at rotary coding switch on switch position 16 minimum 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 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 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 14 for inside-delta circuit at rotary coding switch on switch position 14 for inside-delta circuit at rotary coding switch on switch position 15 for inside-delta circuit at rotary coding switch on switch position 16 at inside-delta circuit at rotary coding switch on switch position 16 at inside-delta circuit at rotary coding switch on switch position 16 at inside-delta circuit at rotary coding switch on switch position 16 at inside-delta circuit at rotary coding switch on switch position 16 at inside-delta circuit		
adjustable motor current • for inside-delta circuit at rotary coding switch on switch position 1 • for inside-delta circuit at rotary coding switch on switch position 2 • for inside-delta circuit at rotary coding switch on switch position 3 • for inside-delta circuit at rotary coding switch on switch position 3 • for inside-delta circuit at rotary coding switch on switch position 4 • for inside-delta circuit at rotary coding switch on switch position 5 • for inside-delta circuit at rotary coding switch on switch position 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 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 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 19.9 A minimum load [%]		25 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 5 • for inside-delta circuit at rotary coding switch on switch position 6 • for inside-delta circuit at rotary coding switch on switch position 7 • for inside-delta circuit at rotary coding switch on switch position 8 • for inside-delta circuit at rotary coding switch on switch position 8 • for inside-delta circuit at rotary coding switch on switch position 9 • for inside-delta circuit at rotary coding switch on switch position 10 • for inside-delta circuit at rotary coding switch on switch position 11 • for inside-delta circuit at rotary coding switch on switch position 12 • for inside-delta circuit at rotary coding switch on switch position 12 • for inside-delta circuit at rotary coding switch on switch position 13 • for inside-delta circuit at rotary coding switch on switch position 14 • for inside-delta circuit at rotary coding switch on switch position 15 • for inside-delta circuit at rotary coding switch on switch position 15 • for inside-delta circuit at rotary coding switch on switch position 15 • for inside-delta circuit at rotary coding switch on switch position 15 • for inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit minimum 19.9 A minimum load [%]		11.5 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 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 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 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 19.9 A minimum load [%]	adjustable motor current	
• for inside-delta circuit at rotary coding switch on switch position 3 • for inside-delta circuit at rotary coding switch on switch position 4 • for inside-delta circuit at rotary coding switch on switch position 5 • for inside-delta circuit at rotary coding switch on switch position 6 • for inside-delta circuit at rotary coding switch on switch position 7 • for inside-delta circuit at rotary coding switch on switch position 7 • for inside-delta circuit at rotary coding switch on switch position 9 • for inside-delta circuit at rotary coding switch on switch position 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 16 • at inside-delta circuit minimum 19.9 A minimum load [%]		19.9 A
• for inside-delta circuit at rotary coding switch on switch position 4 • for inside-delta circuit at rotary coding switch on switch position 5 • for inside-delta circuit at rotary coding switch on switch position 6 • for inside-delta circuit at rotary coding switch on switch position 7 • for inside-delta circuit at rotary coding switch on switch position 8 • for inside-delta circuit at rotary coding switch on switch position 8 • for inside-delta circuit at rotary coding switch on switch position 9 • for inside-delta circuit at rotary coding switch on switch position 10 • for inside-delta circuit at rotary coding switch on switch position 11 • for inside-delta circuit at rotary coding switch on switch position 12 • for inside-delta circuit at rotary coding switch on switch position 13 • for inside-delta circuit at rotary coding switch on switch position 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 16 • at inside-delta circuit minimum 19.9 A minimum load [%]		21.5 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 6 for inside-delta circuit at rotary coding switch on switch position 7 for inside-delta circuit at rotary coding switch on switch position 8 for inside-delta circuit at rotary coding switch on switch position 9 for inside-delta circuit at rotary coding switch on switch position 10 for inside-delta circuit at rotary coding switch on switch position 11 for inside-delta circuit at rotary coding switch on switch position 12 for inside-delta circuit at rotary coding switch on switch position 13 for inside-delta circuit at rotary coding switch on switch position 13 for inside-delta circuit at rotary coding switch on switch position 14 for inside-delta circuit at rotary coding switch on switch position 15 for inside-delta circuit at rotary coding switch on switch position 15 for inside-delta circuit at rotary coding switch on switch position 16 at inside-delta circuit at rotary coding switch on switch position 16 at inside-delta circuit minimum 19.9 A minimum load [%] 		23 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 10 • for inside-delta circuit at rotary coding switch on switch position 11 • for inside-delta circuit at rotary coding switch on switch position 12 • for inside-delta circuit at rotary coding switch on switch position 12 • for inside-delta circuit at rotary coding switch on switch position 13 • for inside-delta circuit at rotary coding switch on switch position 14 • for inside-delta circuit at rotary coding switch on switch position 14 • for inside-delta circuit at rotary coding switch on switch position 15 • for inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit minimum 19.9 A minimum load [%]	, ,	24.6 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 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 minimum load [%] 29.3 A 30.8 A 32.4 A 33.9 A 35.5 A 37.1 A 37.1 A 38.6 A 40.2 A 40.2 A 40.2 A 41.7 A 43.3 A 49.9 A minimum load [%]	switch position 5	26.2 A
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 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 [%] 30.8 A 32.4 A 33.9 A 35.5 A 37.1 A 37.1 A 40.2 A 41.7 A 43.3 A 43.3 A	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 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 minimum load [%] 32.4 A 33.9 A 33.9 A 35.5 A 37.1 A 38.6 A 40.2 A 40.2 A 41.7 A 41.7 A 43.3 A 43.3 A	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 16 • at inside-delta circuit minimum 19.9 A minimum load [%]	switch position 8	
switch position 10 • for inside-delta circuit at rotary coding switch on switch position 11 • for inside-delta circuit at rotary coding switch on switch position 12 • for inside-delta circuit at rotary coding switch on switch position 13 • for inside-delta circuit at rotary coding switch on switch position 14 • for inside-delta circuit at rotary coding switch on switch position 14 • for inside-delta circuit at rotary coding switch on switch position 15 • for inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit minimum minimum load [%] 35.5 A 37.1 A 38.6 A 40.2 A 41.7 A 41.7 A 43.3 A 43.3 A	switch position 9	
switch position 11 • for inside-delta circuit at rotary coding switch on switch position 12 • for inside-delta circuit at rotary coding switch on switch position 13 • for inside-delta circuit at rotary coding switch on switch position 14 • for inside-delta circuit at rotary coding switch on switch position 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 19.9 A minimum load [%] 37.1 A 37.1 A 38.6 A 40.2 A 41.7 A 41.7 A 43.3 A 53.4 A 43.3 A 43.3 A 43.3 A 54.3 A 55.5 Relative to smallest settable le	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 19.9 A minimum load [%] 38.6 A 40.2 A 41.7 A 43.3 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 [%] 40.2 A 41.7 A 43.3 A 43.3 A 43.9 A 43.9 A	switch position 12	
switch position 14 • for inside-delta circuit at rotary coding switch on switch position 15 • for inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit minimum minimum load [%] 41.7 A 43.3 A 43.9 A 19.9 A minimum load [%]	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 [%] 43.3 A 43.3 A 19.9 A minimum load [%]	switch position 14	
switch position 16	switch position 15	
minimum load [%] 15 %; Relative to smallest settable le	switch position 16	
POWER 1999 INTERNITOR FOR VOICE OF THE CHITCH OF WO	power loss [W] for rated value of the current at AC	10 70, Holding to challed octable to
• at 40 °C after startup 20 W		20 W
• at 50 °C after startup	•	19 W

at 60 °C after startup	18 W
power loss [W] at AC at current limitation 350 %	
 at 40 °C during startup 	376 W
 at 50 °C during startup 	318 W
at 60 °C during startup	278 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage frequency	-10 %
relative positive tolerance of the control supply voltage frequency	10 %
control supply voltage	
at DC rated value	24 V
relative negative tolerance of the control supply voltage at DC	-20 %
relative positive tolerance of the control supply voltage at DC	20 %
control supply current in standby mode rated value	160 mA
holding current in bypass operation rated value	360 mA
locked-rotor current at close of bypass contact	0.75 A
maximum 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	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface
fastening method	screw fixing
height	275 mm
width	170 mm
depth	152 mm
required spacing with side-by-side mounting	(V2 11111
• forwards	10 mm
backwards	0 mm
upwards	100 mm
downwards	75 mm
at the side	5 mm
♥ at the side	V IIIIII

weight without packaging	2.1 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
for control circuit	screw-type terminals
type of connectable conductor cross-sections	
for main contacts	
— solid	2x (1.0 2.5 mm²), 2x (2.5 10 mm²)
— finely stranded with core end processing	2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)
at AWG cables for main current circuit solid type of connectable conductor cross-sections	2x (16 12), 2x (14 8)
for control circuit solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
for control circuit solid for control circuit finely stranded with core end	1x (0.5 2.5 mm²), 2x (0.5 2.5 mm²)
processing	1x (0.0 2.0 mm), 2x (0.0 1.0 mm)
at AWG cables for control circuit solid	1x (20 12), 2x (20 14)
wire length	
 between soft starter and motor maximum 	800 m
 at the digital inputs at AC maximum 	100 m
at the digital inputs at DC maximum	1 000 m
tightening torque	2 25Nm
for main contacts with screw-type terminals	2 2.5 N·m
 for auxiliary and control contacts with screw-type terminals 	0.8 1.2 N·m
tightening torque [lbf·in]	
for main contacts with screw-type terminals	18 22 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	25 LCO °C. Diagon shooting at term exetures of 40 °C or
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	V
PROFINET standard EtherNot/ID	Yes
EtherNet/IP Modbus RTU	Yes Yes
Modbus RTU Modbus TCP	Yes
PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
of circuit breaker	
 usable for Standard Faults at 460/480 V according to UL 	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA
 usable for High Faults at 460/480 V according to UL 	Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; lq max = 65 kA
 usable for Standard Faults at 460/480 V at inside-delta circuit according to UL 	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA
 usable for High Faults at 460/480 V at inside- delta circuit according to UL 	Siemens type: 3VA51, max. 60 A; lq max = 65 kA
 usable for Standard Faults at 575/600 V according to UL 	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA
 usable for Standard Faults at 575/600 V at inside-delta circuit according to UL 	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA

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

Type: Class RK5 / K5, max. 100 A; Iq = 5 kA

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

Type: Class RK5 / K5, max. 100 A; Iq = 5 kA

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

operating power [hp] for 3-phase motors

at 200/208 V at 50 °C rated value
at 220/230 V at 50 °C rated value

• at 460/480 V at 50 °C rated value

• at 200/208 V at inside-delta circuit at 50 °C rated value

• at 220/230 V at inside-delta circuit at 50 °C rated value

 at 460/480 V at inside-delta circuit at 50 °C rated value

JL R300-B300

10 hp 25 hp

5 hp

7.5 hp

15 hp

10 hp

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

IP20

finger-safe, for vertical contact from the front

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=3RW5215-1AC04

Cax online generator

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

 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RW5215-1AC04}$

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

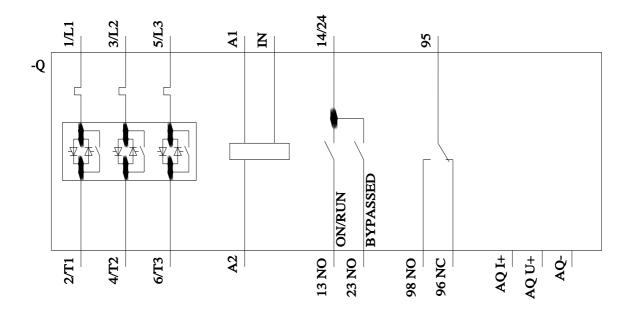
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5215-1AC04&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RW5215-1AC04/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5215-1AC04&objecttype=14&gridview=view1



last modified: 4/10/2022 🖸