SIEMENS

Data sheet

3RW5245-6AC04



SIRIUS soft starter 200-480 V 315 A, 24 V AC/DC Screw terminals Analog output

product category Hybrid switching devices product designation Soft starter product type designation Soft starter product type designation Soft starter of standard HMI module usable SRW5980-0H500 of standard HMI module usable SRW5980-0CE00 of communication module PROFIBUS usable SRW5980-0CE00 of communication module Ethernet/IP SRW5980-0CE00 of circuit breaker usable at 400 V SRW5980-0CE00 of circuit breaker usable at 400 V SRW5980-0CE00 of circuit breaker usable at 500 V SRW5980-0CE00 of circuit breaker usable at 500 V at inside-delta circuit SRW5980-0CE00 of the gG fuse usable at 500 V at inside-delta circuit up to 500 V SRW580-0CE00 of the gG fuse usable at sol V at inside-delta circuit up to 500 V SRW580-0CE00 of the gG fuse usable at sol V at inside-delta SRW580-0CE00 of the gG fuse usable at sol V at inside-delta SRW580-0CE00 of the gG fuse usable at sol V at inside-delta SRW580-0CE00 of the gG fuse usable up to 690 V SRW580-0CE00 of the gG fuse usable at inside-delta circuit up to 500 V SRW5332-0AA0. Type of coordination 1. lq = 6		
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product type designation 3RW52 manufacturer's article number 3RW52 of standard HMI module usable 3RW5980-0HS00 of of high feature HMI module usable 3RW5980-0ER00 of communication module PROFINET standard usable 3RW5980-0CF00 of communication module Modus TCP usable 3RW5980-0CF00 of communication module Modus TCP usable 3RW5980-0CF00 of circuit breaker usable at 400 V 3RW5980-0CF00 of circuit breaker usable at 500 V 3RW54240-7MN32-0AA0. Type of coordination 1. I.g = 65 kA. CLASS 10 of tircuit breaker usable at 500 V at inside-delta 3RW54280-6HN32-0AA0. Type of coordination 1. I.g = 65 kA. CLASS 10 of the gG fuse usable up to 690 V 2x3NA3365-6; Type of coordination 1. I.g = 65 kA of the gG fuse usable up to 690 V 3NE1336. Type of coordination 1. I.g = 65 kA usable up	product category	Hybrid switching devices
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500 V • of full range R fuse link for semiconductor protection usable up to 690 V 3NE1334-2: Type of coordination 2. lg = 65 kA • of back-up R fuse link for semiconductor protection usable up to 690 V 3NE3336; Type of coordination 2. lg = 65 kA General technical data 30 100 % starting voltage [%] 30 100 % stopping voltage [%] 50 50 % startup ramp time of soft starter 0 20 s current limiting value [%] adjustable 130 700 % certificate of suitability Yes • CE marking Yes • UL approval Yes • CSA approval Yes • HMI-Standard Yes • HMI-High Feature Yes product feature integrated bypass contact system Yes number of controlled phases 3	 of the gG fuse usable up to 690 V 	2x3NA3365-6; Type of coordination 1, Iq = 65 kA
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• UL approvalYes• CSA approvalYesproduct component is supportedYes• HMI-StandardYes• HMI-High FeatureYesproduct feature integrated bypass contact systemYesnumber of controlled phases3	certificate of suitability	
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product feature integrated bypass contact system Yes number of controlled phases 3		Yes
product feature integrated bypass contact system Yes number of controlled phases 3	HMI-High Feature	Yes
number of controlled phases 3		Yes
		3
	trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2

buffering time in the event of power failure	
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	
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	C00.)/
between main and auxiliary circuit	
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 acc. to IEC 60947-4-2	AC 53a
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	15.02.2018 00:00:00
product function	Ver
 ramp-up (soft starting) ramp down (soft star) 	Yes
ramp-down (soft stop) Soft Torque	Yes
Soft Torque	Yes
adjustable current limitation	Yes
pump ramp down intrinein dowing protoction	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 	315 A
• at 50 °C rated value	279 A
• at 60 °C rated value	255 A
operational current at inside-delta circuit	
• at 40 °C rated value	546 A
 at 50 °C rated value 	483 A
• at 60 °C rated value	442 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	10 %
inside-delta circuit	
 operating power for 3-phase motors at 230 V at 40 °C rated value 	90 kW
• at 250 v at 40 G rated value	90 KW

a at 220 V at incide delta sizzuit at 40 °C ante due t	160 1/11
• at 230 V at inside-delta circuit at 40 °C rated value	160 kW
• at 400 V at 40 °C rated value	160 kW
at 400 V at inside-delta circuit at 40 °C rated value	315 kW
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	10 % 10 %
relative positive tolerance of the operating frequency adjustable motor current	
-	19E A
 at rotary coding switch on switch position 1 at rotary coding switch on switch position 2 	135 A 147 A
 at rotary coding switch on switch position 2 at rotary coding switch on switch position 2 	159 A
 at rotary coding switch on switch position 3 at rotary coding switch on switch position 4 	171 A
 at rotary coding switch on switch position 4 at rotary coding switch on switch position 5 	183 A
 at rotary coding switch on switch position 5 at rotary coding switch on switch position 6 	195 A
 at rotary coding switch on switch position 7 	207 A
 at rotary coding switch on switch position 8 	207 A 219 A
 at rotary coding switch on switch position 9 at rotary coding switch on switch position 9 	231 A
 at rotary coding switch on switch position 10 	243 A
 at rotary coding switch on switch position 10 at rotary coding switch on switch position 11 	243 A 255 A
 at rotary coding switch on switch position 11 at rotary coding switch on switch position 12 	257 A
 at rotary coding switch on switch position 12 at rotary coding switch on switch position 13 	279 A
 at rotary coding switch on switch position 14 	291 A
at rotary coding switch on switch position 15	303 A
 at rotary coding switch on switch position 16 	315 A
minimum	135 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	234 A
 for inside-delta circuit at rotary coding switch on switch position 2 	255 A
 for inside-delta circuit at rotary coding switch on switch position 3 	275 A
 for inside-delta circuit at rotary coding switch on switch position 4 	296 A
 for inside-delta circuit at rotary coding switch on switch position 5 	317 A
 for inside-delta circuit at rotary coding switch on switch position 6 	338 A
 for inside-delta circuit at rotary coding switch on switch position 7 	359 A
 for inside-delta circuit at rotary coding switch on switch position 8 for inside delta circuit at rotary coding switch on 	379 A
 for inside-delta circuit at rotary coding switch on switch position 9 for inside-delta circuit at rotary coding switch on 	400 A 421 A
 for inside-delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	442 A
 switch position 11 for inside-delta circuit at rotary coding switch on 	462 A
 switch position 12 for inside-delta circuit at rotary coding switch on 	483 A
switch position 13 • for inside-delta circuit at rotary coding switch on	504 A
switch position 14for inside-delta circuit at rotary coding switch on	525 A
 switch position 15 for inside-delta circuit at rotary coding switch on switch position 16 	546 A
switch position 16 at inside-delta circuit minimum 	234 A
• at inside-delta circuit minimum minimum load [%]	15 %; Relative to smallest settable le
power loss [W] for rated value of the current at AC	
• at 40 °C after startup	107 W
• at 50 °C after startup	96 W
• at 60 °C after startup	89 W
	•••••

power loss [W] at AC at current limitation 350 %	5 050 M
• at 40 °C during startup	5 350 W
• at 50 °C during startup	4 471 W
• at 60 °C during startup	3 934 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	10 %
voltage frequency	
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
locked-rotor current at close of bypass contact maximum	7.6 A
inrush current peak at application of control supply voltage maximum	3.3 A
duration of inrush current peak at application of control supply voltage	12.1 ms
design of the overvoltage protection	Varistor
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply
Inputs/ Outputs	
number of digital inputs	1
number of inputs for thermistor connection	0
number of digital outputs	3
not parameterizable	2
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	1
switching capacity current of the relay outputs	
 at AC-15 at 250 V rated value 	3 A
 at DC-13 at 24 V rated value 	1 A
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
height	393 mm
width	210 mm
depth	203 mm
required spacing with side-by-side mounting	
• forwards	10 mm
backwards	0 mm
• upwards	100 mm
downwards	75 mm
at the side	5 mm

weight without packaging	9.9 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	busbar connection
for control circuit	screw-type terminals
width of connection bar maximum	45 mm
type of connectable conductor cross-sections	
 for DIN cable lug for main contacts stranded 	2x (50 240 mm²)
 for DIN cable lug for main contacts finely stranded 	2x (70 240 mm ²)
type of connectable conductor cross-sections	
for control circuit solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
 for control circuit finely stranded with core end 	1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²)
processing	
at AWG cables for control circuit solid	1x (20 12), 2x (20 14)
wire length	
 between soft starter and motor maximum 	800 m
 at the digital inputs at AC maximum 	100 m
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 terminals 	0.8 1.2 N·m
terminals	
tightening torque [lbf·in]	124 210 lbf·in
 for main contacts with screw-type terminals for suviliant and control contacts with acrow type 	
 for auxiliary and control contacts with screw-type terminals 	7 10.3 lbf·in
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 acc. to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
• during storage acc. to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
 during transport acc. 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
UL/CSA ratings	
manufacturer's article number	
of circuit breaker	
 usable for Standard Faults at 460/480 V according to UL 	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA
— usable for High Faults at 460/480 V according	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq max = 65
to UL — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL	kA Siemens type: 3VA54, max. 600 A; lq = 18 kA
— usable for High Faults at 460/480 V at inside- delta circuit according to UL	Siemens type: 3VA54, max. 600 A; Iq max = 65 kA
— usable for Standard Faults at 575/600 V according to UL	Siemens type: 3VA53, max. 400 A or 3VA54, max. 600 A; Iq = 18 kA
 usable for Standard Faults at 575/600 V at inside-delta circuit according to UL of the fuse 	Siemens type: 3VA54, max. 600 A; Iq = 18 kA

— usable for according to t					
	Standard Faults up to 57 JL	75/600 V	Type: Class J / L, max. 1	000 A; lq = 18 kA	
0	High Faults up to 575/60	00 V	Type: Class J / L, max. 1	000 A; Iq = 100 kA	
	Standard Faults at inside 75/600 V according to U		Type: Class J / L, max. 1	000 A; Iq = 18 kA	
	High Faults at inside-del according to UL	ta circuit up	Type: Class J / L, max. 1	000 A; Iq = 100 kA	
operating power [hp] for 3-phase motors				
• at 200/208 V at	50 °C rated value		75 hp		
• at 220/230 V at	50 °C rated value		100 hp		
• at 460/480 V at	50 °C rated value		200 hp		
● at 200/208 V at value	inside-delta circuit at 50	°C rated	150 hp		
 at 220/230 V at value 	inside-delta circuit at 50	°C rated	200 hp		
 at 460/480 V at value 	inside-delta circuit at 50	°C rated	400 hp		
contact rating of aux	ciliary contacts accordi	ng to UL	R300-B300		
afety related data					
protection class IP o	on the front acc. to IEC	60529	IP00; IP20 with cover		
touch protection on	the front acc. to IEC 60	529	finger-safe, for vertical co	ontact from the front with	cover
electromagnetic con	npatibility		in accordance with IEC 6	0947-4-2	
ertificates/ approval	S				
	(ui	জ	EHL		CE
CSA CSA		ୢ୴	EHL	RCM	CE EG-Konf.
Test Certificates	Marine / Shipping	W	EHL	RCM	CE EG-Konf.
Test Certificates Type Test Certificates	Marine / Shipping		Lovds Register us	RCM	EG-Konf.
Type Test Certific-			Lloyds Register	RCM	DNV-GL
<u>Type Test Certific-</u> ates/Test Report			Lloyds Register	RCM PRS	DNV-GL
Type Test Certific- ates/Test Report			Lloyds Register	RCM PRS	DNV-GL
Type Test Certific- ates/Test Report	ABS		Lloyds Register Uts	RCM PRS	DNV-GL
Type Test Certific- ates/Test Report	ABS	S, Brochures,	Lloyds Register Uts	RCM PRS	DNV-GL
Type Test Certific- ates/Test Report	wnloadcenter (Catalogs com/ic10 e ordering system)		Lloyds Register Uts	RCM PRS	DNV-GL
Type Test Certific- ates/Test Report	wnloadcenter (Catalogs com/ic10 e ordering system) emens.com/mall/en/en/C	Catalog/product	Liks	V5245-6AC04	DNV-GL

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5245-6AC04

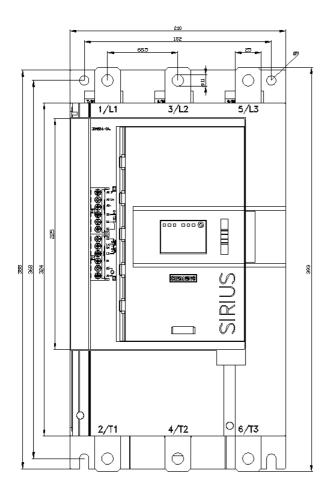
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5245-6AC04&lang=en

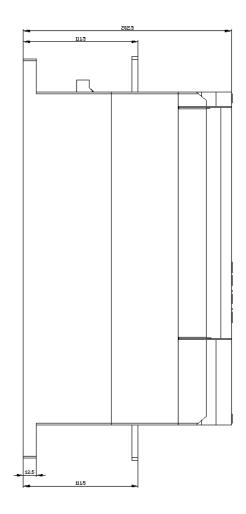
Characteristic: Tripping characteristics, I²t, Let-through current

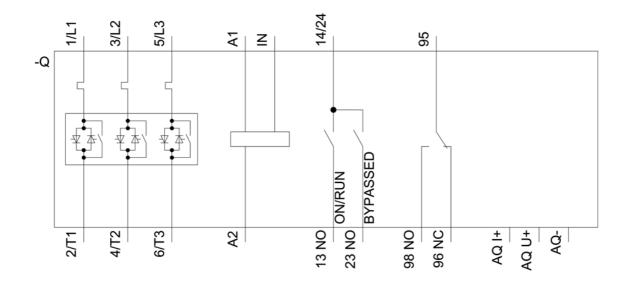
https://support.industry.siemens.com/cs/ww/en/ps/3RW5245-6AC04/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5245-6AC04&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)







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