SIEMENS

Data sheet

3RW5516-1HA05



SIRIUS soft starter 200-600 V 32 A, 24 V AC/DC Screw terminals

product brand name	SIRIUS			
product category	Hybrid switching devices			
product designation	Soft starter			
product type designation	3RW55			
manufacturer's article number				
 of high feature HMI module usable 	<u>3RW5980-0HF00</u>			
 of communication module PROFINET standard usable 	<u>3RW5980-0CS00</u>			
 of communication module PROFINET high-feature usable 	<u>3RW5950-0CH00</u>			
 of communication module PROFIBUS usable 	<u>3RW5980-0CP00</u>			
 of communication module Modbus TCP usable 	<u>3RW5980-0CT00</u>			
 of communication module Modbus RTU usable 	<u>3RW5980-0CR00</u>			
 of communication module Ethernet/IP 	<u>3RW5980-0CE00</u>			
 of circuit breaker usable at 400 V 	3RV2032-4VA10; Type of coordination 1, Iq = 65 kA, CLASS 10			
 of circuit breaker usable at 500 V 	3RV2032-4VA10: Type of coordination 1, Iq = 10 kA. CLASS 10			
 of circuit breaker usable at 400 V at inside-delta circuit 	3RV2032-4JA10; Type of coordination 1, Iq = 65 kA, CLASS 10			
 of circuit breaker usable at 500 V at inside-delta circuit 	3RV2032-4JA10; Type of coordination 1, Iq = 10 kA, CLASS 10			
 of the gG fuse usable up to 690 V 	3NA3824-6; Type of coordination 1, Iq = 65 kA			
 of the gG fuse usable at inside-delta circuit up to 500 V 	3NA3824-6; Type of coordination 1, Iq = 65 kA			
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1818-0; Type of coordination 2, Iq = 65 kA</u>			
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE8022-1; Type of coordination 2, Iq = 65 kA</u>			
eneral technical data				
starting voltage [%]	20 100 %			
stopping voltage [%]	50 50 %			
start-up ramp time of soft starter	0 360 s			
ramp-down time of soft starter	0 360 s			
start torque [%]	10 100 %			
stopping torque [%]	10 100 %			
torque limitation [%]	20 200 %			
current limiting value [%] adjustable	125 800 %			
breakaway voltage [%] adjustable	40 100 %			
breakaway time adjustable	0 2 s			
number of parameter sets	3			

accuracy class acc. to IEC 61557-12	5 %			
certificate of suitability				
CE marking	Yes			
 UL approval 	Yes			
CSA approval	Yes			
product component				
HMI-High Feature	Yes			
 is supported HMI-High Feature 	Yes			
product feature integrated bypass contact system	Yes			
number of controlled phases	3			
trip class	CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2			
current unbalance limiting value [%]	10 60 %			
ground-fault monitoring limiting value [%]	10 95 %			
recovery time after overload trip adjustable	60 1 800 s			
buffering time in the event of power failure				
 for main current circuit 	100 ms			
for control circuit	100 ms			
idle time adjustable	0 255 s			
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	1.15			
surge voltage resistance rated value	6 kV			
maximum permissible voltage for safe isolation				
 between main and auxiliary circuit 	600 V; does not apply for thermistor connection			
utilization category acc. to IEC 60947-4-2	AC 53a			
shock resistance	15 g / 11 ms, from 6 g / 11 ms with potential contact lifting			
vibration resistance	15 mm up to 6 Hz; 2 g up to 500 Hz			
vibration resistance reference code acc. to IEC 81346-2	15 mm up to 6 Hz; 2 g up to 500 Hz Q			
reference code acc. to IEC 81346-2	Q			
reference code acc. to IEC 81346-2 Substance Prohibitance (Date)	Q			
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function	Q 15.02.2018 00:00:00			
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse	Q 15.02.2018 00:00:00 Yes			
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop)	Q 15.02.2018 00:00:00 Yes Yes			
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reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation	Q 15.02.2018 00:00:00 Yes Yes Yes			
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes			
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes			
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes			
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes			
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes			
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes			
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reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection • evaluation of thermistor motor protection • inside-delta circuit • auto-RESET	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes			
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection • evaluation of thermistor motor protection • inside-delta circuit • auto-RESET • manual RESET	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes			
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection • motor overload protection • motor RESET • manual RESET • remote reset	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes			
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection • motor overload protection • motor RESET • manual RESET • remote reset • communication function	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes			
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function • ramp-up (soft starting) • ramp-down (soft stop) • breakaway pulse • adjustable current limitation • creep speed in both directions of rotation • pump ramp down • DC braking • motor heating • slave pointer function • trace function • intrinsic device protection • motor overload protection • motor overload protection • motor RESET • remote reset • communication function	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes			
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reference code acc. to IEC 81346-2 Substance Prohibitance (Date) product function ramp-up (soft starting) ramp-down (soft stop) breakaway pulse adjustable current limitation creep speed in both directions of rotation pump ramp down DC braking motor heating slave pointer function trace function intrinsic device protection motor overload protection evaluation of thermistor motor protection inside-delta circuit auto-RESET remote reset communication function operating measured value display event list error logbook via software parameterizable	Q 15.02.2018 00:00:00 Yes Yes Yes Yes Yes Yes Yes Yes			

e enring type terminel	No				
spring-type terminal	No				
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High- Feature communication modules				
firmware update	Yes				
removable terminal for control circuit	Yes				
voltage ramp	Yes				
torque control	Yes				
combined braking	Yes				
analog output	Yes Yes; 4 20 mA (default) / 0 10 V				
programmable control inputs/outputs	Yes; 4 20 mA (default) / 0 10 V Yes				
condition monitoring	Yes				
automatic parameterisation	Yes				
application wizards	Yes				
alternative run-down	Yes				
emergency operation mode	Yes				
reversing operation	Yes				
 soft starting at heavy starting conditions 	Yes				
Power Electronics					
operational current • at 40 °C rated value	22.4				
 at 40 °C rated value at 40 °C rated value minimum 	32 A				
	6.5 A				
• at 50 °C rated value	28.4 A 26 A				
at 60 °C rated value	20 A				
operational current at inside-delta circuit					
• at 40 °C rated value	55.4 A				
• at 50 °C rated value	49 A				
at 60 °C rated value	45 A				
operating voltage	200 000.14				
• rated value	200 600 V				
at inside-delta circuit rated value	200 600 V				
relative negative tolerance of the operating voltage	-15 %				
relative positive tolerance of the operating voltage	10 %				
relative negative tolerance of the operating voltage at inside-delta circuit	-15 %				
relative positive tolerance of the operating voltage at	10 %				
inside-delta circuit					
operating power for 3-phase motors					
 at 230 V at 40 °C rated value 	7.5 kW				
 at 230 V at inside-delta circuit at 40 °C rated value 	15 kW				
 at 400 V at 40 °C rated value 	15 kW				
 at 400 V at inside-delta circuit at 40 °C rated value 	22 kW				
• at 500 V at 40 °C rated value	18.5 kW				
• at 500 V at inside-delta circuit at 40 °C rated value	30 kW				
Operating frequency 1 rated value	50 Hz				
Operating frequency 2 rated value	60 Hz				
relative negative tolerance of the operating frequency	-10 %				
relative positive tolerance of the operating frequency	10 %				
minimum load [%]	10 %; Relative to set le				
power loss [W] for rated value of the current at AC					
• at 40 °C after startup	10 W				
• at 50 °C after startup	9 W				
• at 60 °C after startup	8 W				
power loss [W] at AC at current limitation 350 %					
• at 40 °C during startup	519 W				
• at 50 °C during startup	437 W				
• at 60 °C during startup	386 W				
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor				
Control circuit/ Control					
type of voltage of the control supply voltage	AC/DC				
the of the second of the second of supply toldays					

	_			
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	420 mA			
holding current in bypass operation rated value	820 mA			
locked-rotor current at close of bypass contact maximum	0.91 A			
inrush current peak at application of control supply voltage maximum	7.5 A			
duration of inrush current peak at application of control supply voltage	20 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	4			
• parameterizable	4			
number of inputs for thermistor connection	1; Type A PTC or Klixon / Thermoclick			
 number of digital outputs 	4			
 number of digital outputs parameterizable 	3			
 number of digital outputs not parameterizable 	1			
digital output version	3 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	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)			
fastening method	screw fixing			
height	275 mm			
width	170 mm			
depth	152 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	2.6 kg			
Connections/ Terminals type of electrical connection				
·····				

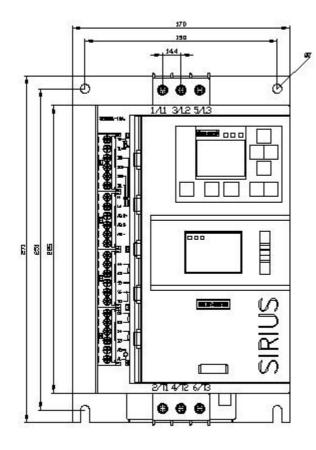
for main current circuit	screw-type terminals				
for control circuit	screw-type terminals				
 wire length for thermistor connection with conductor cross-section = 0.5 mm² maximum 	50 m				
	50 m				
 with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum 	150 m 250 m				
• with conductor cross-section = 2.5 mm ² maximum	250 m				
type of connectable conductor cross-sections					
for main contacts	$2x (4.0, -2.5, mm^2) = 2x (2.5, -4.0, mm^2)$				
— solid	2x (1.0 2.5 mm ²), 2x (2.5 10 mm ²)				
 finely stranded with core end processing at AWC applies for main surrent circuit colid 	2x (1.0 2.5 mm ²), 2x (2.5 6.0 mm ²)				
at AWG cables for main current circuit solid	2x (16 12), 2x (14 8)				
type of connectable conductor cross-sections	$4x (0 = 4.0 \text{ mm}^2) = 0x (0 = 2.5 \text{ mm}^2)$				
 for control circuit solid for control circuit finally stranded with core and 	1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²)				
 for control circuit finely stranded with core end processing 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)				
 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 DC maximum 	1 000 m				
Ambient conditions					
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog				
ambient temperature	5 000 m, Derating as of 1000 m, see catalog				
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or				
	above				
 during storage and transport 	-25 +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				
PROFINET high-feature	No				
• EtherNet/IP	No				
Modbus RTU	No				
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. 100 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. 100 A; lq = 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. 100 A; Iq = 5 kA				
— usable for High Faults at 575/600 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 at inside-delta circuit according to UL 	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 100 A; Iq = 5 kA				
• of the fuse					
 — usable for Standard Faults up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 125 A; lq = 5 kA				

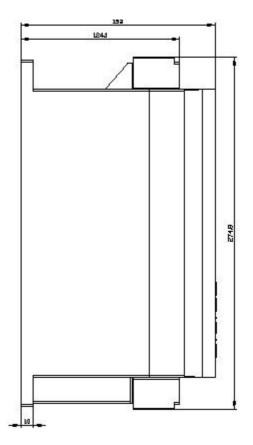
according to I	П						
according to U			Tupe	Class RK5 / K5 may	125 A: la = 5 kA		
	 — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 		туре	: Class RK5 / K5, max	125 A, IQ - 5 KA		
— usable for High Faults at inside-delta circuit up to 575/600 V according to UL			Type: Class J / L, max. 125 A; lq = 100 kA				
] for 3-phase motors						
	50 °C rated value		7.5 h	q			
• at 220/230 V at 50 °C rated value			10 h				
	50 °C rated value		20 h				
	50 °C rated value		25 h				
	inside-delta circuit at 5	0 °C rated	15 hp				
value	inside-delta circuit at 5		15 h				
value	inside-delta circuit at 5		30 h				
value							
value	inside-delta circuit at 5		40 h				
_	ciliary contacts accord	ling to UL	R300)-B300			
Safety related data							
protection class IP of	on the front acc. to IEC	60529	IP20				
touch protection on	the front acc. to IEC 6	0529	finge	r-safe, for vertical cont	act from the front		
electromagnetic con	npatibility		acc.	to IEC 60947-4-2			
ATEX							
certificate of suitabi	lity						
 ATEX 			Yes				
 IECEx 			Yes				
 according to AT 	EX directive 2014/34/E	U	BVS	18 ATEX F 003 X			
type of protection ac 2014/34/EU	cording to ATEX dire	ctive	II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb]				
hardware fault tolerance acc. to IEC 61508 relating to ATEX		0					
Safety Integrity Leve to ATEX	Safety Integrity Level (SIL) acc. to IEC 61508 relating			SIL1			
Certificates/ approval	S						
General Product Ap	proval				EMC	For use in hazard- ous locations	
SP S	CCC CCC	(U) u		EAC	RCM	IECEx	
For use in hazard- ous locations	Declaration of Conformity	Test Certifica	ates	Marine / Shipping			
ATEX	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report		ABS	BUREAU VERITAS	Llovd's Register urs	
Marine / Shipping		other					
marine / Shipping		other					
(2)		<u>Confirmatic</u>	<u>on</u>				

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=3RW5516-1HA05 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5516-1HA05 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW5516-1HA05 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5516-1HA05&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5516-1HA05/char Characteristic: Installation altitude http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5516-1HA05&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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







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