



SIRIUS soft starter 200-480 V 18 A, 110-250 V AC screw terminals without bypass, analog output with HMI standard

manufacturer's article number

- of standard HMI module usable
- of high feature HMI module usable
- of communication module PROFINET standard usable
- of communication module PROFIBUS usable
- of communication module Modbus RTU usable
- of circuit breaker usable at 400 V
- of circuit breaker usable at 500 V
- of circuit breaker usable at 400 V at inside-delta circuit
- of circuit breaker usable at 500 V at inside-delta circuit
- of the gG fuse usable up to 690 V
- of the gG fuse usable at inside-delta circuit up to 500 V
- of full range R fuse link for semiconductor protection usable up to 690 V
- of back-up R fuse link for semiconductor protection usable up to 690 V

[3RW5980-0HS00](#)

[3RW5980-0HF00](#)

[3RW5980-0CS00](#)

[3RW5980-0CP00](#)

[3RW5980-0CR00](#)

[3RV2032-4DA10: Type of coordination 1, I_q = 65 kA, CLASS 10](#)

[3RV2032-4DA10: Type of coordination 1, I_q = 15 kA, CLASS 10](#)

[3RV2032-4EA10: Type of coordination 1, I_q = 65 kA, CLASS 10](#)

[3RV2032-4EA10: Type of coordination 1, I_q = 15 kA, CLASS 10](#)

[3NA3820-6: Type of coordination 1, I_q = 65 kA](#)

[3NA3820-6: Type of coordination 1, I_q = 65 kA](#)

[3NE1802-0: Type of coordination 2, I_q = 65 kA](#)

[3NE8020-1: Type of coordination 2, \(soft starter in conjunction with the associated protective device circuit breaker/fuse\), I_q = 65 kA](#)

General technical data

starting voltage [%]	30 ... 100 %
stopping voltage [%]	50 %; non-adjustable
start-up ramp time of soft starter	0 ... 20 s
ramp-down time of soft starter	0 ... 20 s
current limiting value [%] adjustable	130 ... 700 %
product component is supported	
• HMI-Standard	Yes
• HMI-High Feature	Yes
product feature integrated bypass contact system	No
number of controlled phases	3
buffering time in the event of power failure	
• for main current circuit	100 ms
• for control circuit	100 ms
insulation voltage rated value	480 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 V
blocking voltage of the thyristor maximum	1 400 V
service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	
• between main and auxiliary circuit	480 V
shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
utilization category according to IEC 60947-4-2	AC-53b
reference code according to IEC 81346-2	Q

SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 2-Methyl-1-(4-methylthiophenyl)-2-morpho - 71868-10-5 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7 "1,6,7,8,9,14,15,16,17,17,18,18-Dodecach - - Dibutylbis(pentan-2,4-dionato-O,O')zinn - 22673-19-4 Dodekamethylcyclohexasiloxan (D6) - 540-97-6
product function • ramp-up (soft starting) • ramp-down (soft stop) • Soft Torque • adjustable current limitation • intrinsic device protection • motor overload protection • inside-delta circuit • auto-RESET • manual RESET • remote reset • communication function • operating measured value display • error logbook • via software parameterizable • via software configurable • firmware update • removable terminal for control circuit • voltage ramp • analog output	Yes Yes Yes Yes Yes Yes Yes Yes Yes; By turning off the control supply voltage Yes Yes; with optional HMI Yes No No Yes Yes Yes Yes; 4 ... 20 mA (default) / 0 ... 10 V (parameterizable with High Feature HMI)
Power Electronics	
operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value	18 A 15.9 A 13.8 A
operational current at inside-delta circuit • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value	31.5 A 28 A 23.9 A
operating voltage • rated value • at inside-delta circuit rated value	200 ... 480 V 200 ... 480 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at inside-delta circuit	-15 %
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors • at 230 V at 40 °C rated value • at 230 V at inside-delta circuit at 40 °C rated value • at 400 V at 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value	4 W 7.5 W 7.5 W 15 W
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 %
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 6 • at rotary coding switch on switch position 7 • at rotary coding switch on switch position 8	7.5 A 8.2 A 8.9 A 9.6 A 10.3 A 11 A 11.7 A 12.4 A

• at rotary coding switch on switch position 9 • at rotary coding switch on switch position 10 • at rotary coding switch on switch position 11 • at rotary coding switch on switch position 12 • at rotary coding switch on switch position 13 • at rotary coding switch on switch position 14 • at rotary coding switch on switch position 15 • at rotary coding switch on switch position 16 • minimum	13.1 A 13.8 A 14.5 A 15.2 A 15.9 A 16.6 A 17.3 A 18 A 7.5 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 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 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	13 A 14.2 A 15.4 A 16.6 A 17.8 A 19.1 A 20.3 A 21.5 A 22.7 A 23.9 A 25.1 A 26.3 A 27.5 A 28.8 A 30 A 31.2 A 13 A
minimum load [%]	15 %; Relative to smallest settable I _e
power loss [W] for rated value of the current at AC	
• at 40 °C after startup • at 50 °C after startup • at 60 °C after startup	12 W 12 W 12 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup • at 50 °C during startup • at 60 °C during startup	227 W 196 W 165 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz • at 60 Hz	110 ... 250 V 110 ... 250 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %
control supply voltage frequency	50 ... 60 Hz
relative negative tolerance of the control supply voltage	-10 %

frequency	
relative positive tolerance of the control supply voltage frequency	10 %
control supply current in standby mode rated value	30 mA
inrush current peak at application of control supply voltage maximum	12.2 A
duration of inrush current peak at application of control supply voltage	2.2 ms
design of the overvoltage protection	Varistor
design of short-circuit protection for control circuit	4 A gL/gG, 6 A quick; Fuse is not included in the scope of supply
Inputs/ Outputs	
number of digital inputs	1
• number of digital outputs • number of digital outputs not parameterizable	3 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 • at DC-13 at 24 V rated value	3 A 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	321 mm
width	185 mm
depth	203 mm
required spacing with side-by-side mounting	
• forwards • backwards • upwards • downwards • at the side	10 mm 0 mm 100 mm 75 mm 5 mm
weight without packaging	5.2 kg
Connections/ Terminals	
type of electrical connection	
• for main current circuit • for control circuit	box terminal screw-type terminals
width of connection bar maximum	25 mm
type of connectable conductor cross-sections for main contacts for box terminal	
• using the front clamping point solid • using the front clamping point finely stranded with core end processing • using the front clamping point stranded • using the back clamping point solid • using both clamping points solid • using both clamping points finely stranded with core end processing • using both clamping points stranded • using the back clamping point finely stranded with core end processing • using the back clamping point stranded	1x (2.5 ... 16 mm²) 1x (2.5 ... 50 mm²) 1x (10 ... 70 mm²) 1x (2.5 ... 16 mm²) 2x (2.5 ... 16 mm²) 2x (2.5 ... 35 mm²) 2x (6 ... 16 mm²), 2x (10 ... 50 mm²) 1x (2.5 ... 50 mm²) 1x (10 ... 70 mm²)
type of connectable conductor cross-sections	
• for control circuit solid • for control circuit finely stranded with core end processing	1x (0.5 ... 4.0 mm²), 2x (0.5 ... 2.5 mm²) 1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.5 mm²)
wire length	
• between soft starter and motor maximum • at the digital inputs at AC maximum	800 m 100 m
tightening torque	
• for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals	4.5 ... 6 N·m 0.8 ... 1.2 N·m

tightening torque [lbf-in]		
• for main contacts with screw-type terminals • for auxiliary and control contacts with screw-type terminals	40 ... 53 lbf-in 7 ... 10.3 lbf-in	
Ambient conditions		
installation altitude at height above sea level maximum	5 000 mm; Derating as of 1000 m, see catalog	
ambient temperature		
• during operation • during storage and transport	-25 ... +60 °C; Please observe derating at temperatures of 40 °C or above -40 ... +80 °C	
environmental category		
• during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)	
Communication/ Protocol		
communication module is supported		
• PROFINET standard • Modbus RTU • PROFIBUS	Yes Yes Yes	
Certificates/ approvals		
General Product Approval	EMV	Marine / Shipping
Confirmation 	 	KC 
other		

Further information	
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 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=3RW5114-1XC14-0S Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5114-1XC14-0S Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW5114-1XC14-0S Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5114-1XC14-0S&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5114-1XC14-0S/char Characteristic: Installation altitude http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5114-1XC14-0S&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917	



