



SIRIUS soft starter Values at 400 V, 40 °C standard: 77 A, 37 kW Inside-delta: 133 A, 75 kW 200-460 V AC, 230 V AC Screw terminals !!! Phased-out product !!!
 Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5526-1HA14<<

General technical data

Product brand name		SIRIUS
Product feature		
<ul style="list-style-type: none"> • integrated bypass contact system 		Yes
<ul style="list-style-type: none"> • Thyristors 		Yes
Product function		
<ul style="list-style-type: none"> • Intrinsic device protection 		Yes
<ul style="list-style-type: none"> • motor overload protection 		Yes
<ul style="list-style-type: none"> • Evaluation of thermistor motor protection 		Yes
<ul style="list-style-type: none"> • External reset 		Yes
<ul style="list-style-type: none"> • Adjustable current limitation 		Yes
<ul style="list-style-type: none"> • inside-delta circuit 		Yes
Product component Motor brake output		Yes
Insulation voltage rated value	V	690
Degree of pollution		3, acc. to IEC 60947-4-2
Reference code acc. to DIN EN 61346-2		Q
Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		G

Power Electronics

Product designation		Soft starter
Operating current		
• at 40 °C rated value	A	77
• at 50 °C rated value	A	68
• at 60 °C rated value	A	59
Operating current for three-phase motors at inside-delta circuit		
• at 40 °C rated value	A	133
• at 50 °C rated value	A	118
• at 60 °C rated value	A	102
Mechanical power output for three-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	W	18 500
— at inside-delta circuit at 40 °C rated value	W	37 000
• at 400 V		
— at standard circuit at 40 °C rated value	W	37 000
— at inside-delta circuit at 40 °C rated value	W	75 000
Yielded mechanical performance [hp] for three-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	20
Operating frequency rated value	Hz	50 ... 60
Relative negative tolerance of the operating frequency	%	-10
Relative positive tolerance of the operating frequency	%	10
Operating voltage at standard circuit rated value	V	200 ... 460
Relative negative tolerance of the operating voltage at standard circuit	%	-15
Relative positive tolerance of the operating voltage at standard circuit	%	10
Operating voltage at inside-delta circuit rated value	V	200 ... 460
Relative negative tolerance of the operating voltage at inside-delta circuit	%	-15
Relative positive tolerance of the operating voltage at inside-delta circuit	%	10
Minimum load [%]	%	8
Adjustable motor current for motor overload protection minimum rated value	A	15
Continuous operating current [% of I_e] at 40 °C	%	115
Power loss [W] at operating current at 40 °C during operation typical	W	45

Control circuit/ Control

Type of voltage of the control supply voltage		AC
Control supply voltage frequency 1 rated value	Hz	50

Control supply voltage frequency 2 rated value	Hz	60
Relative negative tolerance of the control supply voltage frequency	%	-10
Relative positive tolerance of the control supply voltage frequency	%	10
Control supply voltage 1 at AC		
• at 50 Hz rated value	V	230
• at 60 Hz rated value	V	230
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
Display version for fault signal		Display

Mechanical data

Width	mm	170
Height	mm	192
Depth	mm	270
Mounting type		screw fixing
Mounting position		with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
Required spacing with side-by-side mounting		
• upwards	mm	100
• at the side	mm	5
• downwards	mm	75
Wire length maximum	m	500
Number of poles for main current circuit		3

Connections/ Terminals

Type of electrical connection		
• for main current circuit		box terminal
• for auxiliary and control current circuit		screw-type terminals
Number of NC contacts for auxiliary contacts		0
Number of NO contacts for auxiliary contacts		3
Number of CO contacts for auxiliary contacts		1
Type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point		
• solid		2.5 ... 16 mm ²
• finely stranded with core end processing		2.5 ... 35 mm ²

<ul style="list-style-type: none"> finely stranded without core end processing stranded 		4 ... 50 mm ² 4 ... 70 mm ²
Type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point <ul style="list-style-type: none"> solid finely stranded with core end processing finely stranded without core end processing stranded 		2,5 ... 16 mm ² 2.5 ... 50 mm ² 10 ... 50 mm ² 10 ... 70 mm ²
Type of connectable conductor cross-sections for main contacts for box terminal using both clamping points <ul style="list-style-type: none"> solid finely stranded with core end processing finely stranded without core end processing stranded 		2x (2.5 ... 16 mm ²) 2x (2.5 ... 35 mm ²) 2x (4 ... 35 mm ²) 2x (4 ... 50 mm ²)
Type of connectable conductor cross-sections at AWG conductors for main contacts for box terminal <ul style="list-style-type: none"> using the back clamping point using the front clamping point using both clamping points 		10 ... 2/0 10 ... 2/0 2x (10 ... 1/0)
Type of connectable conductor cross-sections for auxiliary contacts <ul style="list-style-type: none"> solid finely stranded with core end processing 		2x (0.5 ... 2.5 mm ²) 2x (0.5 ... 1.5 mm ²)
Type of connectable conductor cross-sections at AWG conductors <ul style="list-style-type: none"> for auxiliary contacts for auxiliary contacts finely stranded with core end processing 		2x (20 ... 14) 2x (20 ... 16)

Ambient conditions		
Installation altitude at height above sea level	m	5 000
Environmental category <ul style="list-style-type: none"> during transport acc. to IEC 60721 during storage acc. to IEC 60721 during operation acc. to IEC 60721 		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
Ambient temperature <ul style="list-style-type: none"> during operation during storage 	°C °C	60 -25 ... +80
Derating temperature	°C	40

Protection class IP

IP00

Certificates/ approvals

General Product Approval

EMC

Declaration of
Conformity



CCC



CSA



UL



RCM



EG-Konf.

Declaration of
Conformity

Test Certificates

Marine / Shipping

[Miscellaneous](#)

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



ABS



BUREAU
VERITAS



LRS

Marine / Shipping

other



PRS



DNV-GL
DNVGL.COM/AF

[Confirmation](#)

UL/CSA ratings

Yielded mechanical performance [hp] for three-phase AC motor

• at 200/208 V

— at inside-delta circuit at 50 °C rated value

hp

30

• at 220/230 V

— at standard circuit at 50 °C rated value

hp

20

— at inside-delta circuit at 50 °C rated value

hp

40

• at 460/480 V

— at standard circuit at 50 °C rated value

hp

50

— at inside-delta circuit at 50 °C rated value

hp

75

Contact rating of auxiliary contacts according to UL

B300 / R300

Further information

Simulation Tool for Soft Starters (STS)

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

Information- and Downloadcenter (Catalogs, Brochures,...)

www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4426-1BC44>

Cax online generator

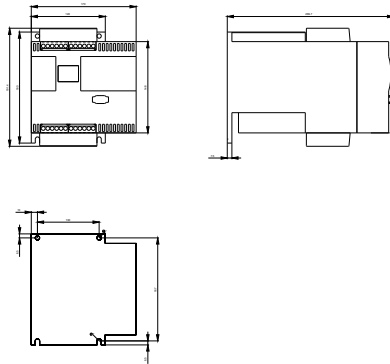
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4426-1BC44>

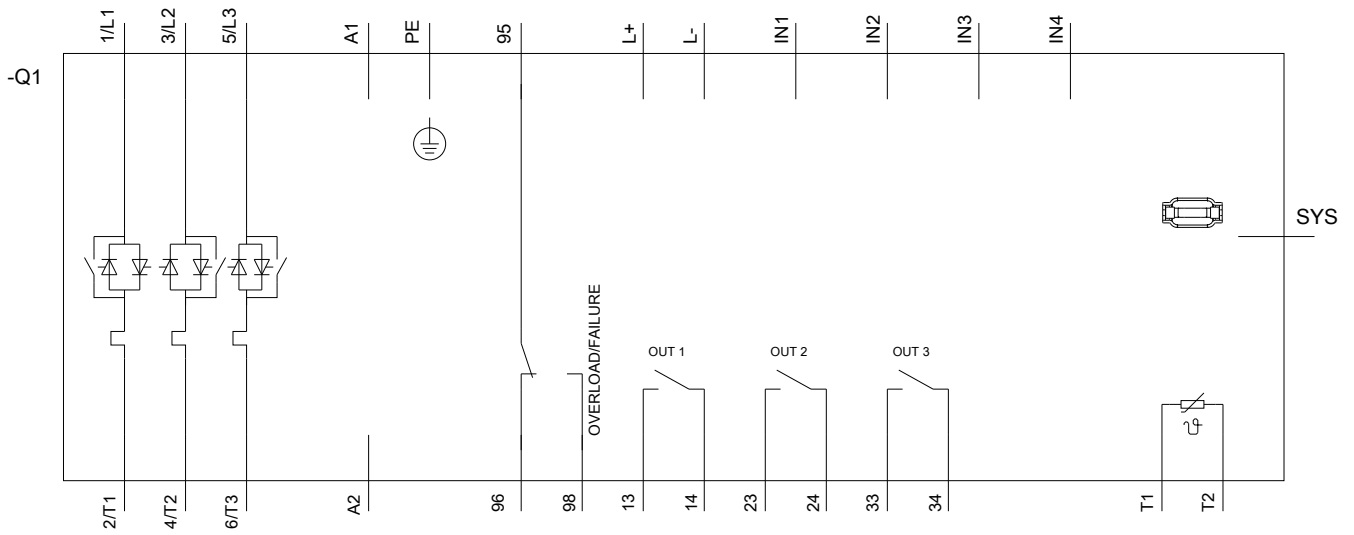
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RW4426-1BC44>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4426-1BC44&lang=en





last modified:

09/25/2020