



Figure similar

SIRIUS soft starter S2 45 A, 22 kW/400 V, 40 °C 200-480 V AC, 24 V AC/DC Screw terminals

General technical data		
product brand name		SIRIUS
product feature		
• integrated bypass contact system		Yes
• thyristors		Yes
product function		
• intrinsic device protection		Yes
• motor overload protection		Yes
• evaluation of thermistor motor protection		No
• external reset		Yes
• adjustable current limitation		Yes
• inside-delta circuit		No
product component motor brake output		No
insulation voltage rated value	V	600
degree of pollution		3, acc. to IEC 60947-4-2
reference code according to EN 61346-2		Q
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750		G
Power Electronics		
product designation		Soft starter
operational current		
• at 40 °C rated value	A	45
• at 50 °C rated value	A	42
• at 60 °C rated value	A	39
yielded mechanical performance for 3-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	kW	11
• at 400 V		
— at standard circuit at 40 °C rated value	kW	22
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	10
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 ... 480
relative negative tolerance of the operating voltage at standard circuit	%	-15
relative positive tolerance of the operating voltage at standard circuit	%	10
minimum load [%]	%	20
adjustable motor current for motor overload	A	23

protection minimum rated value		
continuous operating current [% of I _e] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	6

Control circuit/ Control

type of voltage of the control supply voltage		AC/DC
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	24
• at 60 Hz rated value	V	24
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 1 at DC rated value	V	24
relative negative tolerance of the control supply voltage at DC	%	-20
relative positive tolerance of the control supply voltage at DC	%	20
display version for fault signal		red

Mechanical data

size of engine control device		S2
width	mm	55
height	mm	160
depth	mm	170
fastening method		screw and snap-on mounting
mounting position		With additional fan: With vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back Without additional fan: With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° t
required spacing with side-by-side mounting		
• upwards	mm	60
• at the side	mm	30
• downwards	mm	40
wire length maximum	m	300
number of poles for main current circuit		3

Connections/ Terminals

type of electrical connection		
• for main current circuit		screw-type terminals
• for auxiliary and control circuit		screw-type terminals
number of NC contacts for auxiliary contacts		0
number of NO contacts for auxiliary contacts		2
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		2x (1.5 ... 16 mm ²)
• finely stranded with core end processing		0.75 ... 25 mm ²
• stranded		0.75 ... 35 mm ²
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		
• solid		2x (1.5 ... 16 mm ²)
• finely stranded with core end processing		1.5 ... 25 mm ²
• stranded		1.5 ... 35 mm ²
type of connectable conductor cross-sections for main contacts for box terminal using both clamping		

points

- solid
- finely stranded with core end processing
- stranded

type of connectable conductor cross-sections at AWG cables for main contacts for box terminal

- using the back clamping point
- using the front clamping point
- using both clamping points

type of connectable conductor cross-sections for auxiliary contacts

- solid
- finely stranded with core end processing

type of connectable conductor cross-sections at AWG cables

- for auxiliary contacts
- for auxiliary contacts finely stranded with core end processing

2x (1.5 ... 16 mm²)
 2x (1.5 ... 16 mm²)
 2x (1.5 ... 25 mm²)

16 ... 2
 18 ... 2
 2x (16 ... 2)

2x (0.5 ... 2.5 mm²)
 2x (0.5 ... 1.5 mm²)

2x (20 ... 14)
 2x (20 ... 16)

Ambient conditions

installation altitude at height above sea level environmental category

- during transport according to IEC 60721
- during storage according to IEC 60721
- during operation according to IEC 60721

m

5 000

ambient temperature

- during operation
- during storage

°C

-25 ... +60

°C

-40 ... +80

derating temperature

°C

40

protection class IP on the front according to IEC 60529

IP20

touch protection on the front according to IEC 60529

finger-safe, for vertical contact from the front

Certificates/ approvals

General Product Approval

EMC



[Confirmation](#)



Declaration of Conformity

Test Certificates

Marine / Shipping



[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



other

Railway

[Confirmation](#)

[Vibration and Shock](#)

[Confirmation](#)

UL/CSA ratings

yielded mechanical performance [hp] for 3-phase AC motor

- at 220/230 V

— at standard circuit at 50 °C rated value

hp

15

• at 460/480 V

— at standard circuit at 50 °C rated value

contact rating of auxiliary contacts according to UL

hp

30

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,...)

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mfb=3RW4036-1BB04>

Cax online generator

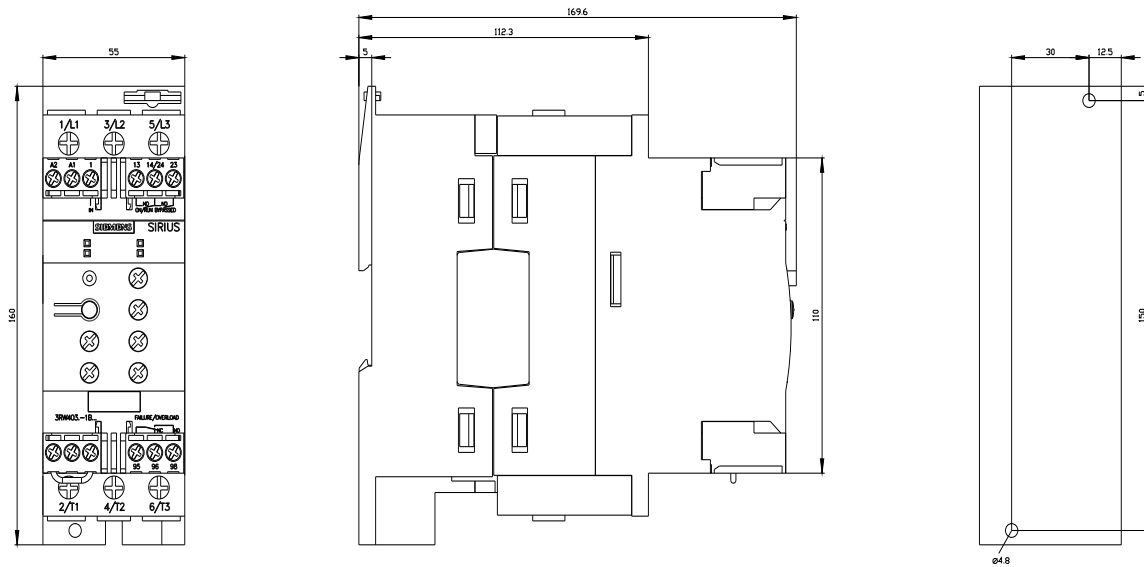
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RW4036-1BB04>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RW4036-1BB04>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3RW4036-1BB04&lang=en





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