## **SIEMENS**

Data sheet 3RW3047-2BB04



SIRIUS soft starter S3 106 A, 55 kW/400 V, 40  $^{\circ}\text{C}$  200-480 V AC, 24 V AC/DC spring-type terminals

product brand name		SIRIUS
product feature		
<ul> <li>integrated bypass contact system</li> </ul>		Yes
thyristors		Yes
product function		
intrinsic device protection		No
<ul> <li>motor overload protection</li> </ul>		No
<ul> <li>evaluation of thermistor motor protection</li> </ul>		No
external reset		No
adjustable current limitation		No
• 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
ower Electronics		
product designation		Soft starter
operational current		
<ul> <li>at 40 °C rated value</li> </ul>	Α	106
at 50 °C rated value	Α	98
• at 60 °C rated value	Α	90
yielded mechanical performance for 3-phase motors		
• at 230 V		
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	kW	30
• at 400 V		
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	kW	55
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	30
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 [%]	%	10
	%	115

power loss [W] at operational current at 40 °C during operation typical	W	21
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	%	-10
frequency		
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	%	-15
relative positive tolerance of the control supply voltage at DC	%	10
display version for fault signal		red
Mechanical data		
size of engine control device		S3
width	mm	70
height	mm	170
depth	mm	190
fastening method		screw and snap-on mounting
mounting position		With vertical mounting surface +/-10° rotatable, with vertical
		mounting surface +/- 10° tiltable to the front and back
required spacing with side-by-side mounting		
• upwards	mm	60
at the side	mm	30
<ul><li>downwards</li></ul>	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		spring-loaded terminals
number of NC contacts for auxiliary contacts		0
number of NO contacts for auxiliary contacts		1
<u> </u>		0
number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main		U
contacts for box terminal using the front clamping point		0.40540
• solid		2x (2.5 16 mm²)
finely stranded with core end processing		2.5 35 mm <sup>2</sup>
• stranded		4 70 mm²
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		
• solid		2x (2.5 16 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		2.5 50 mm²
• stranded		10 70 mm²
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		
• solid		2x (2.5 16 mm²)
finely stranded with core end processing		2x (2.5 35 mm²)
• stranded		2x (10 50 mm²)
type of connectable conductor cross-sections for AWG cables for main contacts for box terminal		

<ul> <li>using the back clamping point</li> </ul>		10 2/0
<ul> <li>using the front clamping point</li> </ul>		10 2/0
using both clamping points		2x (10 1/0)
type of connectable conductor cross-sections for DIN cable lug for main contacts		
finely stranded		2 x (10 50 mm²)
stranded		2x (10 70 mm²)
type of connectable conductor cross-sections for auxiliary contacts		
• solid		2x (0.25 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.25 1.5 mm²)
type of connectable conductor cross-sections for AWG cables		
• for main contacts		2x (7 1/0)
<ul> <li>for auxiliary contacts</li> </ul>		2x (24 14)
Ambient conditions		
installation altitude at height above sea level	m	5 000
environmental category		
<ul> <li>during transport according to IEC 60721</li> </ul>		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
during storage according to IEC 60721		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
during operation according to IEC 60721		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
ambient temperature		
during operation	°C	-25 +60
during storage	°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
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	30
● at 460/480 V		
— at standard circuit at 50 °C rated value	hp	75
contact rating of auxiliary contacts according to UL		B300 / R300
Approvals Certificates		

**General Product Approval** 



Confirmation









**General Product Ap-**EMV **Test Certificates** other proval





<u>KC</u>

Type Test Certificates/Test Report

Special Test Certific-<u>ate</u>

Confirmation

other Railway **Environment** 

Environmental Con-firmations Special Test Certific-Miscellaneous ate

Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917

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=3RW3047-2BB04

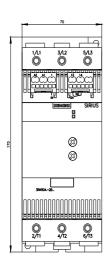
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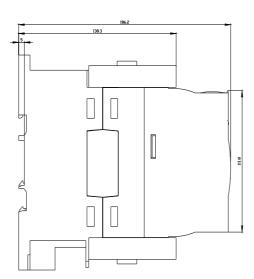
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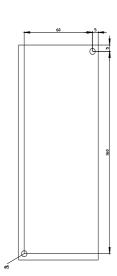
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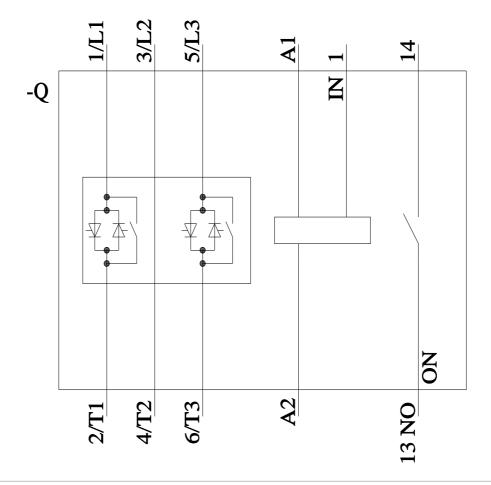
https://support.industry.siemens.com/cs/ww/en/ps/3RW3047-2BB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW3047-2BB04&lang=en









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