SIEMENS

Data sheet 3RW4047-2BB05



SIRIUS soft starter S3 106 A, 75 kW/500 V, 40 $^{\circ}\text{C}$ 400-600 V AC, 24 V AC/DC spring-type 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 	Α	106
 at 50 °C rated value 	А	98
 at 60 °C rated value 	Α	90
yielded mechanical performance for 3-phase motors ● at 400 V		
 at standard circuit at 40 °C rated value 	kW	55
● at 500 V		
— at standard circuit at 40 °C rated value	kW	75
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	400 600
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 protection minimum rated value	Α	46
continuous operating current [% of le] at 40 °C	%	115

power loss [W] at operational current at 40 °C during	W	21
operation typical Control circuit/ Control		
		ACIDO
type of voltage of the control supply voltage control supply voltage frequency 1 rated value	Hz	AC/DC 50
control supply voltage frequency 1 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 relative negative tolerance of the control supply voltage at	V %	24 -15
AC at 50 Hz relative positive tolerance of the control supply voltage at	%	10
AC at 50 Hz relative negative tolerance of the control supply voltage at	%	-15
AC at 60 Hz relative positive tolerance of the control supply voltage at	%	10
AC at 60 Hz control supply voltage 1 at DC rated value	. V	24
relative negative tolerance of the control supply voltage at	V %	-20
DC	- %	
relative positive tolerance of the control supply voltage at DC	70	20
display version for fault signal Mechanical data		red
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 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		spring-loaded terminals
number of NC contacts for auxiliary contacts		0
number of NO contacts for auxiliary contacts		2
number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main		1
contacts for box terminal using the front clamping point • solid		2x (2.5 16 mm²)
finely stranded with core end processing		2.5 35 mm ²
• stranded		4 70 mm ²
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		
• solid		2x (2.5 16 mm²)
• finely stranded with core end processing		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		
 using the back clamping point 		2x (10 1/0)
 using the front clamping point 		2x (10 1/0)
 using both clamping points 		10 2/0
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)
 finely stranded with core end processing 		2x (0.25 1.5 mm²)
type of connectable conductor cross-sections for AWG cables		
• for main contacts		2x (7 1/0)
 for auxiliary contacts 		2x (24 14)
Ambient conditions		
installation altitude at height above sea level	m	5 000
environmental category		
 during transport according to IEC 60721 		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
Certificates/ approvals		
General Product Approval		EMC

General Product Approval

EMC



Confirmation









Declaration of Conformity

Test Certificates

Marine / Shipping





Special Test Certificate

Type Test Certificates/Test Report





Marine / Shipping

other

Railway

DNV-GL DNV-GL Confirmation

Vibration and Shock

Confirmation

hp	75
hp	75
	B300 / R300
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https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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,...)

Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4047-2BB05

Cax online generator

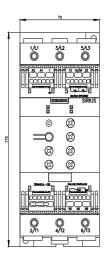
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4047-2BB05

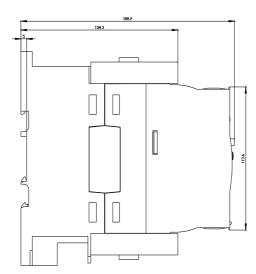
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

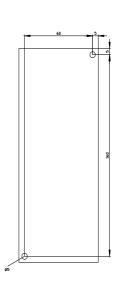
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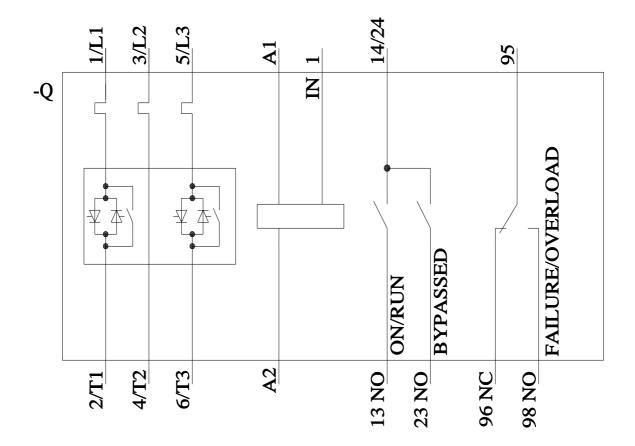
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4047-2BB05&lang=en









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