# SIEMENS

### Data sheet

## 3RW4047-1BB05



SIRIUS soft starter S3 106 A, 75 kW/500 V, 40  $^\circ\text{C}$  400-600 V AC, 24 V AC/DC Screw terminals

General technical data		
product brand name		SIRIUS
product feature		
<ul> <li>integrated bypass contact system</li> </ul>		Yes
thyristors		Yes
product function		
<ul> <li>intrinsic device protection</li> </ul>		Yes
<ul> <li>motor overload protection</li> </ul>		Yes
<ul> <li>evaluation of thermistor motor protection</li> </ul>		No
external reset		Yes
<ul> <li>adjustable current limitation</li> </ul>		Yes
<ul> <li>inside-delta circuit</li> </ul>		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	А	106
<ul> <li>at 50 °C rated value</li> </ul>	А	98
<ul> <li>at 60 °C rated value</li> </ul>	А	90
yielded mechanical performance for 3-phase motors		
• at 400 V		
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	kW	55
• at 500 V		
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	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	A	46
protection minimum rated value		
continuous operating current [% of le] at 40 °C	%	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 frequency	%	-10
relative positive tolerance of the control supply voltage frequency	%	10
control supply voltage 1 at AC		
<ul> <li>at 50 Hz rated value</li> </ul>	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		S3
width	mm	70
height	mm	170
depth fastening method	mm	190 screw and shap on mounting
mounting position		screw and snap-on mounting 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
<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		screw-type terminals
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts		0 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 (2.5 16 mm <sup>2</sup> )
<ul><li>finely stranded with core end processing</li><li>stranded</li></ul>		2.5 35 mm² 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 mm <sup>2</sup> )
<ul> <li>finely stranded with core end processing</li> <li>stranded</li> </ul>		2.5 50 mm² 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)
<ul> <li>finely stranded with core end processing</li> </ul>		2x (2.5 35 mm <sup>2</sup> )
• stranded		2x (10 50 mm <sup>2</sup> )

<ul> <li>cables for main configuration</li> <li>using the back of using the front of using both clarm</li> <li>type of connectable cable lug for main configuration</li> <li>finely stranded</li> </ul>	clamping point ping points conductor cross-sec	I		2x (10 1/0) 2x (10 1/0) 10 2/0 2 x (10 50 r	,		
<ul> <li>stranded</li> <li>type of connectable</li> </ul>	conductor cross-sec	tions for		2x (10 70 n	nm²)		
auxiliary contacts							
<ul> <li>solid</li> <li>finally strandady</li> </ul>	with core and process	ing		2x (0.5 2.5	· ·		
	with core end process conductor cross-sec			2x (0.5 1.5	, , , , , , , , , , , , , , , , , , ,		
• for main contacts				2x (7 1/0)			
<ul> <li>for auxiliary contacts</li> </ul>				2x (20 14)			
<ul> <li>for auxiliary contacts finely stranded with core end processing</li> </ul>				2X (20 16)	2x (20 16)		
Ambient conditions							
	at height above sea l	evel	m	5 000			
environmental categ							
	t according to IEC 607				1, 2M2 (max. fall height 0		
<ul> <li>during storage a</li> </ul>	according to IEC 6072	.1			asional condensation), 10 ist not get inside the devic		
<ul> <li>during operation</li> </ul>	n according to IEC 607	721		3K6 (no forma	ation of ice, no condensat and must not get into the c	ion), 3C3 (no salt	
ambient temperature							
<ul> <li>during operation</li> </ul>	n		°C	-25 +60			
during storage	0		2° 2°	-40 +80 40			
derating temperature	e on the front according	a to IEC	C	40 IP20			
60529	the front according t	-			r vertical contact from the	front	
Certificates/ approval				iniger suic, is		, none	
General Product Ap	proval					EMC	
General Product Ap	proval					EMC	
General Product Ap	oproval	Confirmatio	<u>on</u>	س	COC	EMC	
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Declaration of Conf CEG-Konf. Marine / Shipping Wielded mechanical motor • at 460/480 V	ormity UKA other Confirmation	Test Certifica         Special Test Coate         ate         Railway         Confirmation         Solution         '3-phase AC	ates ertific- <u>Typ</u> ate	s/Test Report	Lloyds Register	EMC EMC ECM	

#### • at 575/600 V

— at standard circuit at 50 °C rated value contact rating of auxiliary contacts according to UL

hp

#### 75 B300 / R300

Further information

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,...) <a href="https://www.siemens.com/ic10">https://www.siemens.com/ic10</a>

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4047-1BB05

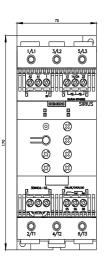
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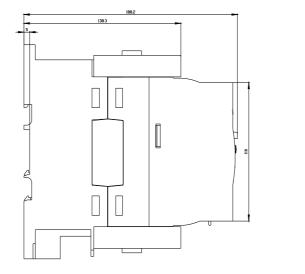
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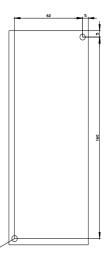
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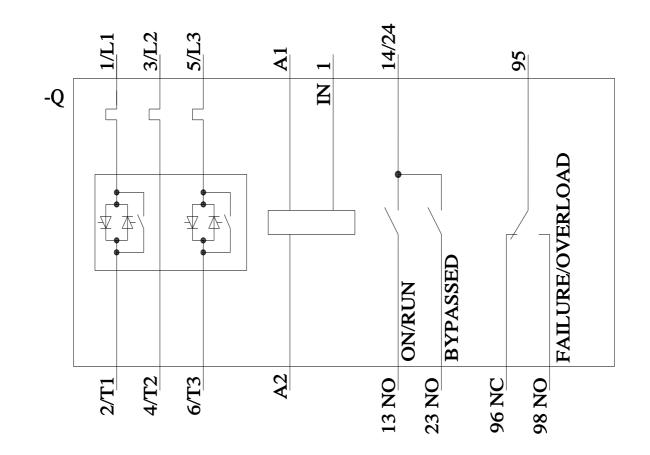
https://support.industry.siemens.com/cs/ww/en/ps/3RW4047-1BB05

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <u>http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4047-1BB05&lang=en</u>









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