## **SIEMENS**

## Data sheet

## 3RW40 47-1BB04



SIRIUS SOFT STARTER, S3, 106A, 55KW/400V, 40 DEGR., AC 200-480V, AC/DC 24V, SCREW TERMINALS

SIRIUS
Yes
Yes
Yes
Yes
No
Yes
Yes
No
No
Q
G
Soft starter

Operating current		
• at 40 °C rated value	A	106
• at 50 °C rated value	A	98
• at 60 °C rated value	A	90
Mechanical power output for three-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	W	30 000
• at 400 V		
— at standard circuit at 40 °C rated value	W	55 000
Yielded mechanical performance [hp] for three-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	%	-10
frequency		
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 [% of IM]	%	20
Adjustable motor current for motor overload protection minimum rated value	A	46
Continuous operating current [% of le] at 40 °C	%	115
Power loss [W] at operating current at 40 °C during operation typical	W	21
Control electronics		
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 60 Hz	%	-20
Relative positive tolerance of the control supply voltage at AC at 60 Hz	%	20
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	mm	190
Mounting type		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
Installation altitude at height above sea level	m	5 000
Wire length maximum	m	300
Number of poles for main current circuit		3

Connections/Terminals	
Type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	screw-type terminals
<ul> <li>for auxiliary and control current circuit</li> </ul>	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 (2.5 16 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2.5 35 mm²
• 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 mm <sup>2</sup>
• stranded	10 70 mm²

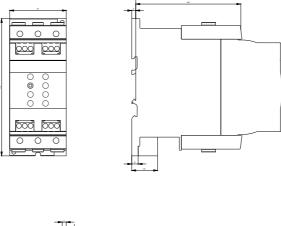
Type of connectable conductor cross-sections for	-	
main contacts for box terminal using both clamping		
points		
• solid		2x (2.5 16 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		2x (2.5 35 mm²)
• stranded		2x (10 50 mm²)
Type of connectable conductor cross-sections at		
AWG conductors for main contacts for box terminal		
<ul> <li>using the back clamping point</li> </ul>		2x (10 1/0)
<ul> <li>using the front clamping point</li> </ul>		2x (10 1/0)
<ul> <li>using both clamping points</li> </ul>		10 2/0
Type of connectable conductor cross-sections for		
DIN cable lug for main contacts		
<ul> <li>finely stranded</li> </ul>		2 x (10 50 mm²)
• stranded		2x (10 70 mm²)
Type of connectable conductor cross-sections for auxiliary contacts		
• solid		2x (0.5 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 1.5 mm²)
Type of connectable conductor cross-sections at AWG conductors		
<ul> <li>for main contacts</li> </ul>		2x (7 1/0)
<ul> <li>for auxiliary contacts</li> </ul>		2x (20 14)
<ul> <li>for auxiliary contacts finely stranded with core</li> </ul>		2x (20 16)
end processing		
Ambient conditions		
Ambient temperature		
• during operation	°C	-25 +60
• during storage	°C	-40 +80
Derating temperature	°C	40
Protection class IP		IP00
Certificates/approvals		

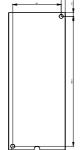
General Produc	t Approval			EMC	For use in hazardous locations
	CSA		EHC	C-Tick	ATEX
Declaration of Conformity	Test Certificates		Shipping Appr	roval	
EG-Konf.	spezielle Prüfbescheinigunge <u>n</u>	Typprüfbescheinigu ng/Werkszeugnis	GL	Lloyd's Register LRS	PRS
other Umweltbestätigung	Bestätigungen				

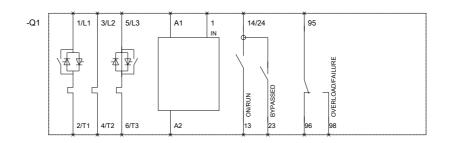
UL/CSA ratings		
Yielded mechanical performance [hp] for three-phase		
AC motor		
● at 220/230 V		
— at standard circuit at 50 °C rated value	hp	30
● at 460/480 V		
— at standard circuit at 50 °C rated value	hp	75
Contact rating of auxiliary contacts according to UL		B300 / R300

Further Information	
Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917	
Information- and Downloadcenter (Catalogs, Brochures,) http://www.siemens.com/industrial-controls/catalogs	
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4047-1BB04	
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4047-1BB04	
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW4047-1BB04	
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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=3RW4047-1BB04&lang=en







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