SIEMENS

Data sheet 3RW40 47-1BB14



SIRIUS SOFT STARTER, S3, 106A, 55KW/400V, 40 DEGR., AC 200-480V, AC/DC 110-230V, SCREW TERMINALS

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	
Equipment marking acc. to DIN EN 61346-2	Q	
Equipment marking acc. to DIN 40719 extended	G	
according to IEC 204-2 acc. to IEC 750		

Product designation

soft starters for standard applications

Operating current		
• at 40 °C rated value	Α	106
● at 50 °C rated value	Α	98
● at 60 °C rated value	Α	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	hp	30
AC motor at 200/208 V at standard circuit at 50 °C rated value		
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	Α	46
protection minimum rated value		
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	V	110 230
Control supply voltage 1 at AC at 60 Hz	V	110 230
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	V	110 230
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
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		
for main current circuit		screw-type terminals
 for auxiliary and control current 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 (2.5 16 mm²)
 finely stranded with core end processing 		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		
		2: (2 5 40
• solid		2x (2.5 16 mm²)
solidfinely stranded with core end processing		2x (2.5 16 mm²) 2.5 50 mm²

points

• solid	2x (2.5 16 mm²)
finely stranded with core end processing	2x (2.5 35 mm²)
stranded stranded	2x (10 50 mm²)
Type of connectable conductor cross-sections at	2x (10 00 mm)
AWG conductors 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 (0.5 2.5 mm²)
• finely stranded with core end processing	2x (0.5 1.5 mm²)
Type of connectable conductor cross-sections at AWG conductors	
• for main contacts	2x (7 1/0)
• for auxiliary contacts	2x (20 14)
 for auxiliary contacts finely stranded with core end processing 	2x (20 16)
Ambient conditions:	
Ambient temperature	

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 Product Approval

EMC

For use in hazardous locations













Declaration of Conformity	Test Certificates		Shipping Ap	pproval	
CE	spezielle Prüfbescheinigunge n	Typprüfbescheinigu ng/Werkszeugnis	<u> </u>	GL 	Lloyd's Register
EG-Konf.			DNV	GL	LRS

Shipping	other
Approval	



Umweltbestätigung

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)

http://www.siemens.com/industrymall

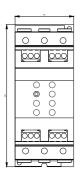
Cax online generator

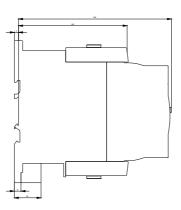
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW40471BB14

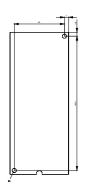
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

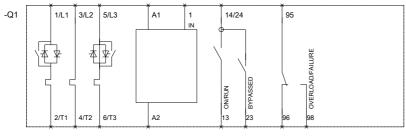
https://support.industry.siemens.com/cs/ww/en/ps/3RW40471BB14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW40471BB14&lang=en









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