SIEMENS

Data sheet 3RW30 47-1BB14



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

General technical data		
product brandname	SIRIUS	
 Product equipment Integrated bypass contact system 	Yes	
 Product feature Thyristors 	Yes	
Product function		
 Intrinsic device protection 	No	
 motor overload protection 	No	
 Evaluation of thermistor motor protection 	No	
External reset	No	
Adjustable current limitation	No	
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 according to IEC 204-2 acc. to IEC 750	G	
Power Electronics		

Product designation

Soft starter

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	0/	40
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]	%	10
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

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 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
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 current circuit 		screw-type terminals
Number of NC contacts for auxiliary contacts		0
Number of NO contacts for auxiliary contacts		1
Number of CO contacts for auxiliary contacts		0
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		
• 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 at AWG conductors for main contacts for box terminal		

	40 0/0
using the back clamping point	10 2/0
 using the front clamping point 	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 (0.5 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)

Ambient conditions			
Installation altitude at height above sea level	m	5 000	
Environmental category			
 during transport acc. to IEC 60721 		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6	
 during storage acc. to IEC 60721 		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6	
 during operation acc. 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		IP00	

Certificates/approvals

General Product Approval EMC Declaration of Conformity













Test Certificates	other			Railway
Type Test Certificates/Test	Miscellaneous	Environmental Confirmations	Confirmation	Vibration and Shock
Report				

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)

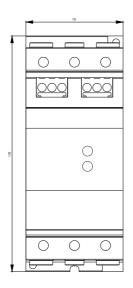
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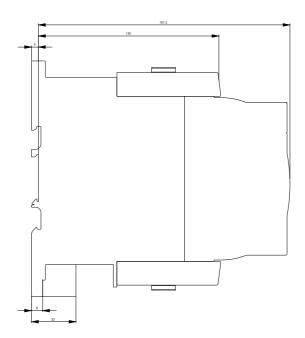
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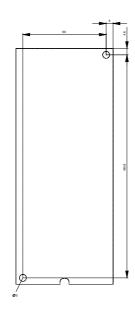
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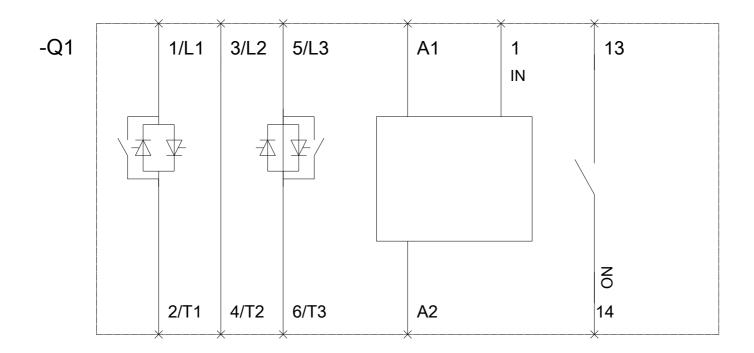
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW3047-1BB14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3047-1BB14&lang=en









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