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 brand name		SIRIUS
Product feature		
• integrated bypass contact system		Yes
• 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 starters for standard applications
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		

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— 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	metric hp	30
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	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 in % of I_M	%	10
Continuous operating current [% of Ie] at 40 °C	%	115
Active power loss 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 with AC at 50 Hz	V	110 ... 230
Control supply voltage 1 with AC at 60 Hz	V	110 ... 230
Relative negative tolerance of the control supply voltage with AC at 60 Hz	%	-15
Relative positive tolerance of the control supply voltage with AC at 60 Hz	%	10
Control supply voltage 1 for DC	V	110 ... 230
Relative negative tolerance of the control supply voltage for DC	%	-15
Relative positive tolerance of the control supply voltage for 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

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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
Installation altitude at height above sea level	m	5 000
Cable 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-section 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-section 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-section 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-section for AWG conductors for main contacts for box terminal		
• 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-section for DIN cable lug for main contacts		

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• finely stranded		2 x (10 ... 50 mm²)
• stranded		2x (10 ... 70 mm²)
Type of connectable conductor cross-section 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-section for AWG conductors		
• for main contacts		2x (7 ... 1/0)
• for auxiliary contacts		2x (20 ... 14)

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	Test Certificates
CCC	CSA	UL	EAC	C-TICK	Type Test Certificates/Test Report

other		
Declaration of Conformity	other	Environmental Confirmations

UL/CSA ratings:

yielded mechanical performance [hp] for three-phase AC motor		
• **at 220/230 V**		
— at standard circuit at 50 °C Rated value	metric hp	30
• **at 460/480 V**		
— at standard circuit at 50 °C Rated value	metric hp	75
Contact rating of the auxiliary contacts acc. to UL		B300 / R300

Further information

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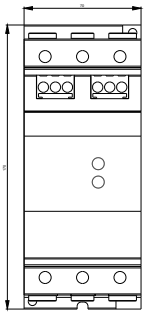
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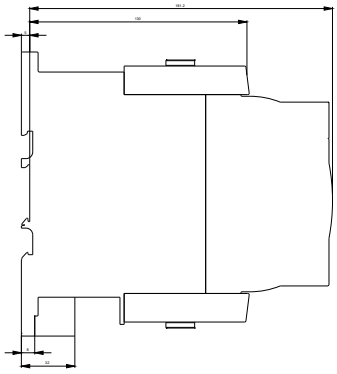
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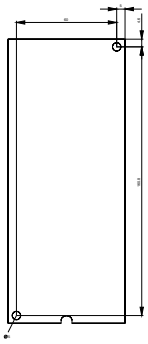
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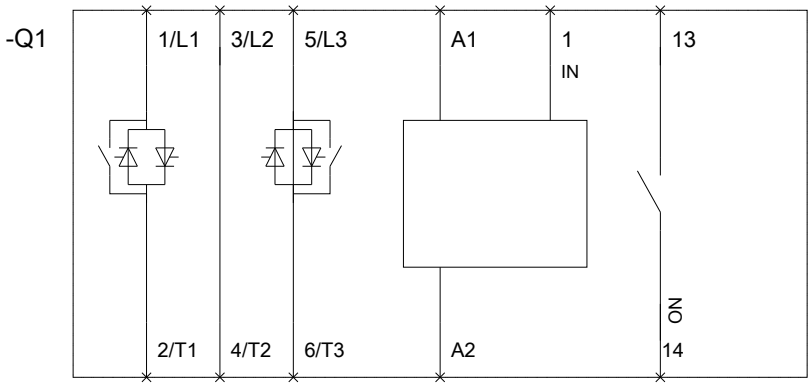
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last modified: 27.04.2015

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