SIEMENS

Data sheet

3RW40 24-2BB14



SIRIUS SOFT STARTER, S0, 12.5A, 5.5KW/400V, 40 DEGR., AC 200-480V, AC/DC 110-230V, SPRING-LOADED TERMINALS

General technical data			
product brandname	SIRIUS		
 Product equipment Integrated bypass contact 	Yes		
system			
 Product feature 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			
-			
Power Electronics			
Product designation	Soft starter		

Operating current		
at 40 °C rated value	А	12.5
• at 50 °C rated value	А	11
• at 60 °C rated value	А	10
Mechanical power output for three-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	W	3 000
• at 400 V		
— at standard circuit at 40 °C rated value	W	5 500
Yielded mechanical performance [hp] for three-phase	hp	3
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 protection minimum rated value	A	5
Continuous operating current [% of le] at 40 °C	%	115
Power loss [W] at operating current at 40 °C during	W	2
operation typical		
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
/lechanical data		
Size of engine control device		SO
Width	mm	45
Height	mm	150
Depth	mm	155
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	15
• 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 		spring-loaded terminals
 for auxiliary and control current circuit 		spring-loaded 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 (1 2.5 mm²), 2x (2.5 6 mm²), max. 1x 10 mm²
 finely stranded with core end processing 		2x (1 2.5 mm²), 2x (2.5 6 mm²)
Type of connectable conductor cross-sections at AWG conductors for main contacts for box terminal		
using the front clamping point		1x 8, 2x (16 10)
Type of connectable conductor cross-sections for main contacts		
• solid		1 10 mm²
 finely stranded with core end processing 		1 6 mm²
Type of connectable conductor cross-sections for auxiliary contacts		
		2x (0.25 2.5 mm²)

Type of connectable conductor cross-sections at AWG conductors	
 for main contacts 	16 10, 1x 8
 for auxiliary contacts 	2x (24 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		IP20	



Declaration of Conformity	Test Certificates		Shipping App	roval	
EG-Konf.	Special Test Certificate	Type Test Certificates/Test Report	GL	Lloyd's Register LRS	PRS

other

Environmental Confirmations Confirmation

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	3
● at 460/480 V		
— at standard circuit at 50 °C rated value	hp	7.5
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)

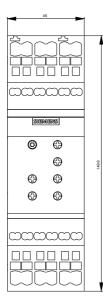
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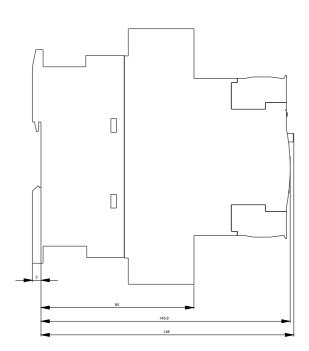
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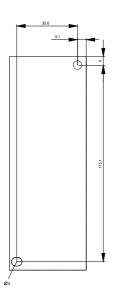
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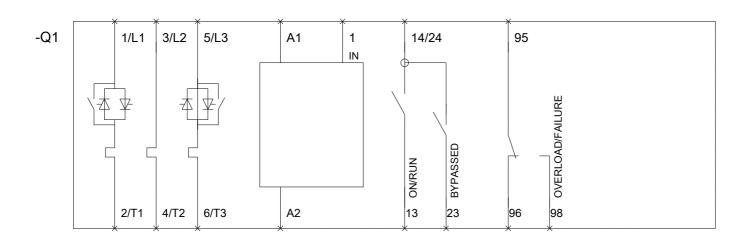
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4024-2BB14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4024-2BB14&lang=en









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