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 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 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	Α	12.5
• at 50 °C Rated value	Α	11
• at 60 °C Rated value	Α	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	metric	3
AC motor at 200/208 V at standard circuit at 50 °C	hp	
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	%	-15
at standard circuit		
Relative positive tolerance of the operating voltage at	%	10
standard circuit		
Minimum load in % of I_M	%	20
Adjustable motor current for motor overload	Α	5
protection minimum rated value		
Continuous operating current in % of I_e at 40 °C	%	115
Active power loss 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 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		S0
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
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	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-section for main contacts for box terminal using the front clamping point	
• solid	2x (1.5 2.5 mm²), 2x (2.5 6 mm²), max. 1x 10 mm²
 finely stranded with core end processing 	2x (1.5 2.5 mm²), 2x (2.5 6 mm²)
Type of connectable conductor cross-section for	
AWG conductors for main contacts for box terminal	
using the front clamping point	1x 8, 2x (16 10)
Type of connectable conductor cross-section for main contacts	
• solid	1 10 mm²
 finely stranded with core end processing 	1 6 mm²
Type of connectable conductor cross-section for auxiliary contacts	
• solid	2x (0.25 2.5 mm²)
• finely stranded with core end processing	2x (0.25 1.5 mm²)
Type of connectable conductor cross-section for AWG conductors	
• for main contacts	16 10, 1x 8
• for auxiliary contacts	2x (24 14)

Ambient conditions:		
Ambient temperature		
 during operation 	°C	-25 +60
during storage	°C	-40 +80
Derating temperature	°C	40
Protection class IP		IP20

Certificates/ approvals:

General Product Approval

EMC
For use in hazardous locations













Test Certificates

Shipping Approval

Special Test Certificate Type Test
Certificates/Test
Report





GL







other

Declaration of
ConformityEnvironmental
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	3
● at 460/480 V		
— at standard circuit at 50 °C Rated value	metric hp	7.5
Contact rating of the auxiliary contacts acc. to UL		B300 / R300

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

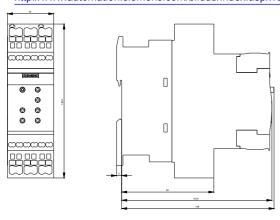
http://www.siemens.com/industrymall

Cax online generator

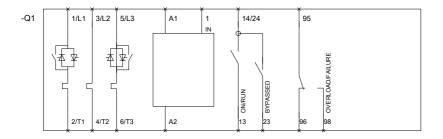
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW40242BB14

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RW40242BB14/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RW40242BB14&lang=en







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