SIEMENS

Data sheet 3RW40 55-2BB44



SIRIUS SOFT STARTER, S6, 134 A, 75 KW/400 V, 40 DEG., 200-460 V AC, 230 V AC, CAGE CLAMP 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	134
• at 50 °C Rated value	Α	117
• at 60 °C Rated value	Α	100
Mechanical power output for three-phase motors		
● at 230 V		

 — at standard circuit at 40 °C Rated value 	W	37 000
● at 400 V		
— at standard circuit at 40 °C Rated value	W	75 000
yielded mechanical performance [hp] for three-phase	metric	30
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	200 460
Relative negative tolerance of the operating voltage at standard circuit	%	-15
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	59
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	60
operation typical		
operation typical		
Control electronics: Type of voltage of the control supply voltage		AC
Control electronics:	Hz	AC 50
Control electronics: Type of voltage of the control supply voltage	Hz Hz	
Control electronics: Type of voltage of the control supply voltage Control supply voltage frequency 1 Rated value		50
Control electronics: Type of voltage of the control supply voltage Control supply voltage frequency 1 Rated value Control supply voltage frequency 2 Rated value	Hz	50 60
Control electronics: Type of voltage of the control supply voltage Control supply voltage frequency 1 Rated value Control supply voltage frequency 2 Rated value Relative negative tolerance of the control supply	Hz	50 60
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Control electronics: Type of voltage of the control supply voltage Control supply voltage frequency 1 Rated value Control supply voltage frequency 2 Rated value Relative negative tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Control supply voltage 1 with AC • at 50 Hz Rated value	Hz % %	50 60 -10 10
Control electronics: Type of voltage of the control supply voltage Control supply voltage frequency 1 Rated value Control supply voltage frequency 2 Rated value Relative negative tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Control supply voltage 1 with AC • at 50 Hz Rated value • at 60 Hz Rated value	Hz % % V V	50 60 -10 10 230 230
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Control electronics: Type of voltage of the control supply voltage Control supply voltage frequency 1 Rated value Control supply voltage frequency 2 Rated value Relative negative tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Control supply voltage 1 with AC • at 50 Hz Rated value • at 60 Hz Rated value Relative negative tolerance of the control supply voltage with AC at 60 Hz Relative positive tolerance of the control supply voltage with AC at 60 Hz Display version for fault signal Mechanical data: Size of engine control device	Hz % % V V %	50 60 -10 10 230 230 -15 10 red
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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	100
• at the side	mm	5
• downwards	mm	75
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	busbar connection
 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	
 finely stranded with core end processing 	16 70 mm²
 finely stranded without core end processing 	16 70 mm²
• stranded	16 70 mm²
Type of connectable conductor cross-section for main contacts for box terminal using the back clamping point	
 finely stranded with core end processing 	16 70 mm²
 finely stranded without core end processing 	16 70 mm²
• stranded	16 70 mm²
Type of connectable conductor cross-section for main contacts for box terminal using both clamping points	
 finely stranded with core end processing 	max. 1x 50 mm², 1x 70 mm²
 finely stranded without core end processing 	max. 1x 50 mm², 1x 70 mm²
• stranded	max. 2x 70 mm²
Type of connectable conductor cross-section for AWG conductors for main contacts for box terminal	
using the back clamping point	6 2/0
 using the front clamping point 	6 2/0
using both clamping points	max. 2x 1/0
Type of connectable conductor cross-section for DIN cable lug for main contacts	

25 120 mm²
2x (0.25 1.5 mm²)
2x (0.25 1.5 mm²)
4 250 kcmil
2x (24 16)

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

For use in Test
hazardous Certificates
locations











Special Test Certificate

Shipping Approval





GL



LRS

other

Declaration of Conformity

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	40
● 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

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

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

Industry Mall (Online ordering system)

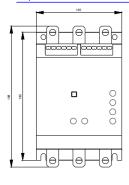
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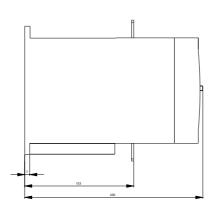
Cax online generator

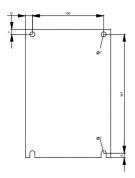
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW40552BB44

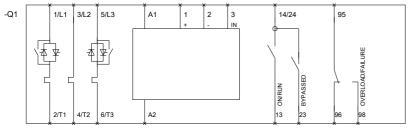
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RW40552BB44/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RW40552BB44&lang=en









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