SIEMENS

Data sheet 3RW44 34-6BC44



SIRIUS SOFT STARTER, VALUES WITH 400 V, 40 DEG., STANDARD: 113A, 55KW, INSIDE-DELTA CIRCUIT 3: 196A, 110KW, 200-460 V AC, 230 V AC, SCREW 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 		Yes
External reset		Yes
Adjustable current limitation		Yes
• inside-delta circuit		Yes
Product component Motor brake output		Yes
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 high feature applications
Operating current		
• at 40 °C Rated value	Α	113
● at 50 °C Rated value	Α	100
• at 60 °C Rated value	Α	88
Operating current for three-phase motors at 3-phase root switching		
• at 40 °C Rated value	Α	196

• at 50 °C Rated value	Α	173
• at 60 °C Rated value	Α	152
Mechanical power output for three-phase motors		
● at 230 V		
— at standard circuit at 40 °C Rated value	W	30 000
— at 3-phase root switching at 40 °C Rated	W	55 000
value		
● at 400 V		
— at standard circuit at 40 °C Rated value	W	55 000
 — at 3-phase root switching at 40 °C Rated value 	W	110 000
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 frequency	%	-10
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 standard circuit	%	10
Operating voltage at 3-phase root switching Rated value	V	200 460
Relative negative tolerance of the operating voltage at 3-phase root switching	%	-15
Relative positive tolerance of the operating voltage at 3-phase root switching	%	10
Minimum load in % of I_M	%	8
Adjustable motor current for motor overload protection minimum rated value	А	22
Continuous operating current in % of I_e at 40 °C	%	115
Active power loss at operating current at 40 °C during operation typical	W	64
Control electronics:		
Type of voltage of the control supply voltage	11-	AC 50
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 Rated value	V	230

• at 60 Hz Rated value	V	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
Display version for fault signal		Display

Mechanical data:			
Width	mm	170	
Height	mm	200	
Depth	mm	270	
Mounting type		screw fixing	
mounting position		bei senkrechter Montageebene +/-90° drehbar, bei senkrechter Montageebene +/- 22,5° nach vorne und hinten kippbar	
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	500	
Number of poles for main current circuit		3	

Connections/ Terminals:		
Type of electrical connection		
 for main current circuit 	busbar conn	ection
 for auxiliary and control current circuit 	screw-type t	erminals
Number of NC contacts for auxiliary contacts	0	
Number of NO contacts for auxiliary contacts	3	
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 mm	²
 finely stranded without core end processing 	16 70 mm	r ²
• stranded	16 70 mm	r ²
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 mm	1 ²
 finely stranded without core end processing 	16 70 mm	1 ²
• stranded	16 70 mm	²
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	
• finely stranded	16 95 mm²
• stranded	25 120 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	4 250 kcmil
for auxiliary contacts	2x (20 14)
• for auxiliary contacts finely stranded with core	2x (20 16)
end processing	

Ambient conditions:		
Ambient temperature		
during operation	°C	60
during storage	°C	-25 + 80
Derating temperature	°C	40
Protection class IP		IP00

Certificates/ approvals:

General Product Approval

EMC

Declaration of Conformity













Test Certificates

Shipping Approval

Special Test Certificate

Type Test Certificates/Test Report









Shipping Approval

other





Environmental Confirmations

UL/CSA ratings:		
yielded mechanical performance [hp] for three-phase		
AC motor		
● at 200/208 V		
 — at 3-phase root switching at 50 °C Rated 	metric	50
value	hp	
● at 220/230 V		
 at standard circuit at 50 °C Rated value 	metric	30
	hp	
 — at 3-phase root switching at 50 °C Rated 	metric	60
value	hp	
● at 460/480 V		
 at standard circuit at 50 °C Rated value 	metric	75
	hp	
 — at 3-phase root switching at 50 °C Rated 	metric	125
value	hp	
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

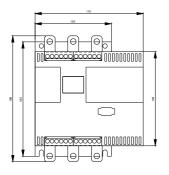
Industry Mall (Online ordering system)

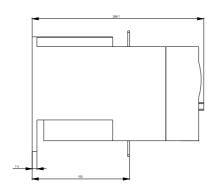
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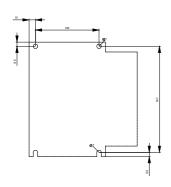
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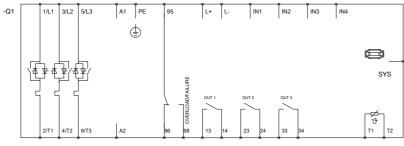
http://support.automation.siemens.com/WW/view/en/3RW44346BC44/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RW44346BC44&lang=en









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