SIEMENS

Data sheet 3RW44 23-1BC44



SIRIUS SOFT STARTER, VALUES WITH 400 V, 40 DEG., STANDARD: 36A, 18,5KW, INSIDE-DELTA CIRCUIT 3: 62A, 30KW, 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	36
● at 50 °C Rated value	Α	32
● at 60 °C Rated value	Α	29
Operating current for three-phase motors at 3-phase root switching		
• at 40 °C Rated value	Α	62

● at 50 °C Rated value	Α	55
● at 60 °C Rated value	Α	50
Mechanical power output for three-phase motors		
● at 230 V		
— at standard circuit at 40 °C Rated value	W	7 500
— at 3-phase root switching at 40 °C Rated	W	18 500
value		
● at 400 V		
— at standard circuit at 40 °C Rated value	W	18 500
— at 3-phase root switching at 40 °C Rated value	W	30 000
yielded mechanical performance [hp] for three-phase	metric	10
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	7
Continuous operating current in % of I_e at 40 °C	%	115
Active power loss at operating current at 40 °C during operation typical	W	10
Control electronics:		
Type of voltage of the control supply voltage	11-	AC
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	192
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	box 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	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	
• solid	2.5 16 mm²
 finely stranded with core end processing 	2.5 35 mm²
 finely stranded without core end processing 	4 50 mm²
• stranded	4 70 mm²
Type of connectable conductor cross-section for main contacts for box terminal using the back clamping point	
• solid	2,5 16 mm²
 finely stranded with core end processing 	2.5 50 mm²
 finely stranded without core end processing 	10 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)
 finely stranded without core end processing 	2x (4 35 mm²)
• stranded	2x (4 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	
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 auxiliary contacts	2x (20 14)
for auxiliary contacts finely stranded with core	2x (20 16)
end processing	
Ambient conditions:	
Ambient temperature	

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 Certificates











Special Test Certificate

LRS

lest	
Certific	ates

Shipping Approval

Type Test
Certificates/Test
Report







15

10

20

20

40

B300 / R300

metric

hp metric

hp

hp

metric

metric hp





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 metricvalue hp

• at 220/230 V

— at standard circuit at 50 °C Rated value

at 3-phase root switching at 50 °C Rated value

• at 460/480 V

— at standard circuit at 50 °C Rated value

— at 3-phase root switching at 50 $^{\circ}\text{C}$ Rated value

Contact	rating of	the auxil	liary con	tacts ac	c. to	JL

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

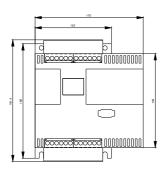
http://www.siemens.com/industrymall

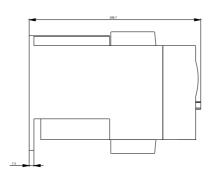
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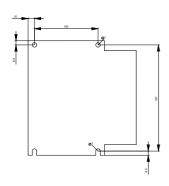
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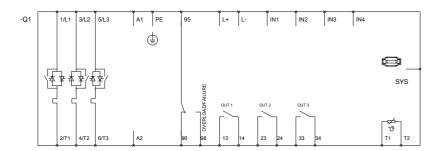
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RW44231BC44/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RW44231BC44&lang=en









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