# **SIEMENS**

## Data sheet

### 3RW44 36-2BC44



SIRIUS SOFT STARTER, VALUES WITH 400 V, 40 DEG., STANDARD: 162A, 90KW, INSIDE-DELTA CIRCUIT 3: 281A, 160KW, 200-460 V AC, 230 V AC, CAGE CLAMP TERMINALS

General technical data:	
product brand name	SIRIUS
Product feature	
<ul> <li>integrated bypass contact system</li> </ul>	Yes
Thyristors	Yes
Product function	
<ul> <li>Intrinsic device protection</li> </ul>	Yes
<ul> <li>motor overload protection</li> </ul>	Yes
<ul> <li>Evaluation of thermistor motor protection</li> </ul>	Yes
External reset	Yes
<ul> <li>Adjustable current limitation</li> </ul>	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	G
according to IEC 204-2 acc. to IEC 750	
Power Electronics:	

Power Electronics:		
Product designation		soft starters for high feature applications
Operating current		
• at 40 °C Rated value	А	162
• at 50 °C Rated value	А	145
• at 60 °C Rated value	А	125
Operating current for three-phase motors at 3-phase root switching		
• at 40 °C Rated value	А	281

● at 50 °C Rated value	А	251
	A	217
• at 60 °C Rated value	A	217
Mechanical power output for three-phase motors		
• at 230 V		15 000
— at standard circuit at 40 °C Rated value	W	45 000
— at 3-phase root switching at 40 °C Rated value	W	90 000
• at 400 V		
— at standard circuit at 40 °C Rated value	W	90 000
— at 3-phase root switching at 40 °C Rated value	W	160 000
yielded mechanical performance [hp] for three-phase AC motor at 200/208 V at standard circuit at 50 °C Rated value	metric hp	40
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	A	32
Continuous operating current in % of I_e at 40 °C	%	115
Active power loss at operating current at 40 °C during operation typical	W	95
Control electronics:		
Type of voltage of the control supply voltage		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	%	-10
voltage frequency	<u>0</u> (	
Relative positive tolerance of the control supply voltage frequency	%	10
Control supply voltage 1 with AC		
<ul> <li>at 50 Hz Rated value</li> </ul>	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
<ul> <li>downwards</li> </ul>	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	
<ul> <li>for main current circuit</li> </ul>	busbar connection
<ul> <li>for auxiliary and control current circuit</li> </ul>	spring-loaded 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	
<ul> <li>finely stranded with core end processing</li> </ul>	16 70 mm²
<ul> <li>finely stranded without core end processing</li> </ul>	16 70 mm²
• stranded	16 70 mm²
Type of connectable conductor cross-section for main contacts for box terminal using the back clamping point	
<ul> <li>finely stranded with core end processing</li> </ul>	16 70 mm²
<ul> <li>finely stranded without core end processing</li> </ul>	16 70 mm²
• stranded	16 70 mm²
Type of connectable conductor cross-section for main contacts for box terminal using both clamping points	

<ul> <li>finely stranded with core end processing</li> </ul>		max. 1x 50 mm <sup>2</sup> , 1x 70 mm <sup>2</sup>
<ul> <li>finely stranded without core end processing</li> </ul>		max. 1x 50 mm <sup>2</sup> , 1x 70 mm <sup>2</sup>
• stranded		max. 2x 70 mm <sup>2</sup>
Type of connectable conductor cross-section for		
AWG conductors for main contacts for box terminal		
<ul> <li>using the back clamping point</li> </ul>		6 2/0
<ul> <li>using the front clamping point</li> </ul>		6 2/0
<ul> <li>using both clamping points</li> </ul>		max. 2x 1/0
Type of connectable conductor cross-section for DIN		
cable lug for main contacts		
<ul> <li>finely stranded</li> </ul>		16 95 mm²
• stranded		25 120 mm²
Type of connectable conductor cross-section for		
auxiliary contacts		
• solid		2x (0.25 1.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.25 1.5 mm²)
Type of connectable conductor cross-section for		
AWG conductors		
<ul> <li>for main contacts</li> </ul>		4 250 kcmil
<ul> <li>for auxiliary contacts</li> </ul>		2x (24 16)
Ambient conditions:		
Ambient temperature		
<ul> <li>during operation</li> </ul>	°C	60
• during storage	°C	-25 +80
Derating temperature	°C	40
Protection class IP		IP00
Certificates/ approvals:		

General Produc	t Approval			EMC	Declaration of Conformity
	CSA		EHC	С-ТІСК	EG-Konf.
Test Certificates Shipping Approval					
Type Test Certificates/Test Report	Special Test Certificate	ABS	BUREAU VERITAS	<b>J</b> Å DNV DNV	GL

Shipping App	proval	other	
Lloyd's Register		Environmental Confirmations	
LRS	PRS		

JL/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	75
value	hp	
• at 220/230 V		
— at standard circuit at 50 °C Rated value	metric	50
	hp	
— at 3-phase root switching at 50 °C Rated	metric	100
value	hp	
● at 460/480 V		
— at standard circuit at 50 °C Rated value	metric	100
	hp	
— at 3-phase root switching at 50 °C Rated	metric	200
value	hp	
Contact rating of the auxiliary contacts acc. to UL		B300 / R300

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