SIEMENS

Data sheet

3RW44 25-3BC36



SIRIUS SOFT STARTER, VALUES WITH 575 V, 50 DEG., STANDARD: 51A, 40HP, INSIDE-DELTA CIRCUIT 3: 88A, 75HP, 400-690 V AC, 115 V AC, CAGE CLAMP TERMINALS

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	G
according to IEC 204-2 acc. to IEC 750	

Product designation		soft starters for high feature applications
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Operating current		
• at 40 °C Rated value	А	57
• at 50 °C Rated value	А	51
• at 60 °C Rated value	А	45
Operating current for three-phase motors at 3-phase	_	
root switching		
• at 40 °C Rated value	А	99

● at 50 °C Rated value	А	88
• at 60 °C Rated value	A	78
Mechanical power output for three-phase motors		
• at 400 V		
— at standard circuit at 40 °C Rated value	W	30 000
— at 3-phase root switching at 40 °C Rated value	W	55 000
● at 500 V		
— at standard circuit at 40 °C Rated value	W	37 000
— at 3-phase root switching at 40 °C Rated	W	55 000
value		
 at 690 V at standard circuit at 40 °C Rated 	W	55 000
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	400 690
Relative negative tolerance of the operating voltage	%	-15
at standard circuit		
Relative positive tolerance of the operating voltage at	%	10
standard circuit		
Operating voltage at 3-phase root switching Rated value	V	400 600
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	А	11
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 operation typical	W	36
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		
Relative positive tolerance of the control supply	%	10
voltage frequency		
Control supply voltage 1 with AC	N	445
• at 50 Hz Rated value	V	115

• at 60 Hz Rated value	V	115
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 	1	box 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		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	4 50 mm²		
• stranded	4	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 (0.25 1.5 mm²)
 finely stranded with core end processing 		2x (0.25 1.5 mm²)
Type of connectable conductor cross-section for		
AWG conductors		
 for auxiliary contacts 		2x (24 16)
Ambient conditions:		
Ambient temperature		
during operation	°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	3	Shipping Approval			
Type Test Certificates/Test Report	Special Test Certificate	ABS	BUREAU VERITAS	Ĵ Å Dinv Div	GL



UL/CSA ratings:		
yielded mechanical performance [hp] for three-phase		
AC motor		
● at 460/480 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 575/600 V		
— at standard circuit at 50 °C Rated value	metric	40
	hp	
— at 3-phase root switching at 50 °C Rated	metric	75
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) http://www.siemens.com/industrymall

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW44253BC36

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RW44253BC36/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RW44253BC36&lang=en





