SIEMENS

Data sheet 3RW44 27-3BC34



SIRIUS SOFT STARTER, VALUES WITH 460 V, 50 DEG., STANDARD: 82A, 60HP, INSIDE-DELTA CIRCUIT 3: 142A, 100HP, 200-460 V AC, 115 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 	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		

Power Electronics:		
Product designation		soft starters for high feature applications
Operating current		
• at 40 °C Rated value	Α	93
● at 50 °C Rated value	Α	82
• at 60 °C Rated value	Α	72
Operating current for three-phase motors at 3-phase root switching		
• at 40 °C Rated value	Α	161

● at 50 °C Rated value	Α	142
● at 60 °C Rated value	Α	125
Mechanical power output for three-phase motors		
● at 230 V		
— at standard circuit at 40 °C Rated value	W	22 000
— at 3-phase root switching at 40 °C Rated	W	45 000
value		
● at 400 V		
 at standard circuit at 40 °C Rated value 	W	45 000
 — at 3-phase root switching at 40 °C Rated value 	W	90 000
yielded mechanical performance [hp] for three-phase	metric	25
AC motor at 200/208 V at standard circuit at 50 °C Rated value	hp	
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	Α	18
Continuous operating current in % of I_e at 40 °C	%	115
Active power loss at operating current at 40 °C during operation typical	W	55
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 0/	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	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		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 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 (0.25 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 Product Approval

EMC

Declaration of Conformity













Test Certificates

Shipping Approval

Type Test Certificates/Test Report

Special Test Certificate









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	40
value	hp	
● at 220/230 V		
 at standard circuit at 50 °C Rated value 	metric	25
	hp	
 — at 3-phase root switching at 50 °C Rated 	metric	50
value	hp	
● at 460/480 V		
 at standard circuit at 50 °C Rated value 	metric	60
	hp	
 — at 3-phase root switching at 50 °C Rated 	metric	100
value	hp	
Contact rating of the auxiliary contacts acc. to UL		B300 / R300

Further information

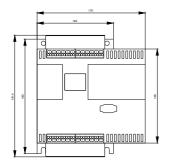
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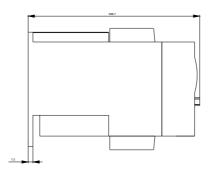
Industry Mall (Online ordering system)

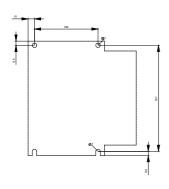
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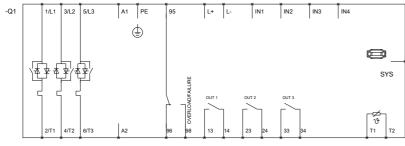
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