SIEMENS

Data sheet

3RW44 47-2BC34



SIRIUS SOFT STARTER, VALUES WITH 460 V, 50 DEG., STANDARD: 385A, 300HP, INSIDE-DELTA CIRCUIT 3: 667A, 600HP, 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 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	А	432
● at 50 °C Rated value	А	385
• at 60 °C Rated value	А	335
Operating current for three-phase motors at 3-phase root switching		
• at 40 °C Rated value	А	748

● at 50 °C Rated value	А	667
	A	580
• at 60 °C Rated value	A	560
Mechanical power output for three-phase motors		
• at 230 V	10/	400.000
— at standard circuit at 40 °C Rated value	W	132 000
— at 3-phase root switching at 40 °C Rated value	W	250 000
• at 400 V		
— at standard circuit at 40 °C Rated value	W	250 000
— at 3-phase root switching at 40 °C Rated value	W	400 000
yielded mechanical performance [hp] for three-phase AC motor at 200/208 V at standard circuit at 50 °C Rated value	metric hp	125
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	86
Continuous operating current in % of I_e at 40 °C	%	115
Active power loss at operating current at 40 °C during operation typical	W	232
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	0/	
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	210
Height	mm	230
Depth	mm	298
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 connectior	1
 for auxiliary and control current circuit 	spring-loaded tern	ninals
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 	70 240 mm ²	
 finely stranded without core end processing 	70 240 mm²	
• stranded	95 300 mm²	
Type of connectable conductor cross-section for main contacts for box terminal using the back clamping point		
 finely stranded with core end processing 	120 185 mm²	
 finely stranded without core end processing 	120 185 mm²	
• stranded	120 240 mm²	
Type of connectable conductor cross-section for main contacts for box terminal using both clamping points		

 finely stranded with core end processing 		min. 2x 50 mm², max. 2x 185 mm²
 finely stranded without core end processing 		min. 2x 50 mm², max. 2x 185 mm²
• stranded		max. 2x 70 mm ² , max. 2x 240 mm ²
Type of connectable conductor cross-section for		
AWG conductors for main contacts for box terminal		
 using the back clamping point 		250 500 kcmil
 using the front clamping point 		3/0 600 kcmil
 using both clamping points 		min. 2x 2/0, max. 2x 500 kcmil
Type of connectable conductor cross-section for DIN		
cable lug for main contacts		
 finely stranded 		50 240 mm²
• stranded		70 240 mm²
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 main contacts 		2/0 500 kcmil
 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 Ap	proval		
Type Test Certificates/Test Report	Special Test Certificate	ABS	BUREAU VERITAS	ĴŠ DNV DNV	GL

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

yielded mechanical performance [hp] for three-phase		
AC motor		
● at 200/208 V		
— at 3-phase root switching at 50 °C Rated	metric	200
value	hp	
● at 220/230 V		
— at standard circuit at 50 °C Rated value	metric	150
	hp	
— at 3-phase root switching at 50 °C Rated	metric	250
value	hp	
● at 460/480 V		
— at standard circuit at 50 °C Rated value	metric	300
	hp	
— at 3-phase root switching at 50 °C Rated	metric	600
value	hp	
Contact rating of the auxiliary contacts acc. to UL		B300 / R300

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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=3RW44472BC34

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http://support.automation.siemens.com/WW/view/en/3RW44472BC34/all

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