SIEMENS

Data sheet

3RW40 47-2BB04



SIRIUS SOFT STARTER, S3, 106A, 55KW/400V, 40 DEGR., AC 200-480V, AC/DC 24V, SPRING-LOADED 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 		No	
• External reset		Yes	
 Adjustable current limitation 		Yes	
• inside-delta circuit		No	
Product component Motor brake output		No	
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 standard applications	
Operating current			
• at 40 °C Rated value	А	106	
• at 50 °C Rated value	А	98	
• at 60 °C Rated value	А	90	
Mechanical power output for three-phase motors			
• at 230 V			

	W	30 000
— at standard circuit at 40 °C Rated value	vv	30 000
• at 400 V		
— at standard circuit at 40 °C Rated value	W	55 000
yielded mechanical performance [hp] for three-phase	metric	30
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	%	-10
frequency		
Relative positive tolerance of the operating frequency	%	10
Operating voltage at standard circuit Rated value	V	200 480
Relative negative tolerance of the operating voltage	%	-15
at standard circuit		
Relative positive tolerance of the operating voltage at	%	10
standard circuit		
Minimum load in % of I_M	%	20
Adjustable motor current for motor overload	A	46
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	W	21
operation typical		
	_	
Control electronics:		
Type of voltage of the control supply voltage		
Type of voltage of the control supply voltage		AC/DC
Control supply voltage frequency 1 Rated value	Hz	50
Control supply voltage frequency 1 Rated value Control supply voltage frequency 2 Rated value	Hz	50 60
Control supply voltage frequency 1 Rated value Control supply voltage frequency 2 Rated value Relative negative tolerance of the control supply		50
Control supply voltage frequency 1 Rated value Control supply voltage frequency 2 Rated value Relative negative tolerance of the control supply voltage frequency	Hz %	50 60 -10
Control supply voltage frequency 1 Rated value Control supply voltage frequency 2 Rated value Relative negative tolerance of the control supply voltage frequency Relative positive tolerance of the control supply	Hz	50 60
Control supply voltage frequency 1 Rated value Control supply voltage frequency 2 Rated value Relative negative tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency	Hz %	50 60 -10
Control supply voltage frequency 1 Rated value Control supply voltage frequency 2 Rated value Relative negative tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Control supply voltage 1 with AC	Hz % %	50 60 -10 10
Control supply voltage frequency 1 Rated value Control supply voltage frequency 2 Rated value Relative negative tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Control supply voltage 1 with AC • at 50 Hz Rated value	Hz % % V	50 60 -10 10 24
Control supply voltage frequency 1 Rated value Control supply voltage frequency 2 Rated value Relative negative tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Control supply voltage 1 with AC • at 50 Hz Rated value • at 60 Hz Rated value	Hz % %	50 60 -10 10
Control supply voltage frequency 1 Rated value Control supply voltage frequency 2 Rated value Relative negative tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Control supply voltage 1 with AC • at 50 Hz Rated value • at 60 Hz Rated value Relative negative tolerance of the control supply	Hz % % V	50 60 -10 10 24
Control supply voltage frequency 1 Rated value Control supply voltage frequency 2 Rated value Relative negative tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Control supply voltage 1 with AC • at 50 Hz Rated value • at 60 Hz Rated value Relative negative tolerance of the control supply voltage with AC at 60 Hz	Hz % % V V %	50 60 -10 10 24 24
Control supply voltage frequency 1 Rated value Control supply voltage frequency 2 Rated value Relative negative tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Control supply voltage 1 with AC • at 50 Hz Rated value • at 60 Hz Rated value Relative negative tolerance of the control supply voltage with AC at 60 Hz Relative positive tolerance of the control supply	Hz % % V V	50 60 -10 10 24 24
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Control supply voltage frequency 1 Rated value Control supply voltage frequency 2 Rated value Relative negative tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Control supply voltage 1 with AC • at 50 Hz Rated value • at 60 Hz Rated value Relative negative tolerance of the control supply voltage with AC at 60 Hz Relative positive tolerance of the control supply voltage with AC at 60 Hz Control supply voltage 1 for DC Rated value Relative negative tolerance of the control supply voltage for DC	Hz % % V V % %	50 60 -10 10 24 24 -20 20 24 -20 20 24 -20 20 21 22 20 20 21 -20
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Control supply voltage frequency 1 Rated value Control supply voltage frequency 2 Rated value Relative negative tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Control supply voltage 1 with AC • at 50 Hz Rated value • at 60 Hz Rated value Relative negative tolerance of the control supply voltage with AC at 60 Hz Relative positive tolerance of the control supply voltage with AC at 60 Hz Control supply voltage 1 for DC Rated value Relative negative tolerance of the control supply voltage for DC Relative positive tolerance of the control supply	Hz % % V V % %	50 60 -10 10 24 24 -20 20 24 -20 20 24 -20 20 21 22 20 20 21 -20
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Width	mm	70
Height	mm	170
Depth	mm	190
Mounting type	-	screw and snap-on mounting
mounting position		With additional fan: With vertical mounting surface +/- 90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back Without additional fan: With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° t
Required spacing with side-by-side mounting		
● upwards	mm	60
• at the side	mm	30
• downwards	mm	40
Installation altitude at height above sea level	m	5 000
Cable length maximum	m	300
Number of poles for main current circuit		3
Connections/Terminals		
Connections/ Terminals: Type of electrical connection	_	
for main current circuit		screw-type terminals
		spring-loaded terminals
for auxiliary and control current circuit Number of NC contacts for auxiliary contacts		0
Number of NO contacts for auxiliary contacts	-	2
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		2x (2.5 16 mm²)
 finely stranded with core end processing 		2.5 35 mm ²
• stranded		4 70 mm²
Type of connectable conductor cross-section for main contacts for box terminal using the back clamping point		
• solid		2x (2.5 16 mm²)
 finely stranded with core end processing 		2.5 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)
• stranded		2x (10 50 mm²)
Type of connectable conductor cross-section for AWG conductors for main contacts for box terminal		
 using the back clamping point 		2x (10 1/0)

 using the front of 	clamping point			2x (10 1/0))	
 using both clarr 				10 2/0		
Type of connectable		tion for DIN				
cable lug for main co						
 finely stranded 				2 x (10 50) mm²)	
 stranded 				2x (10 70	mm²)	
Type of connectable auxiliary contacts	conductor cross-sec	tion for				
● solid				2x (0.25 2	2.5 mm²)	
 finely stranded 	with core end proce	ssing		2x (0.25 1	l.5 mm²)	
Type of connectable AWG conductors	conductor cross-sec	tion for				
 for main contact 	ts			2x (7 1/0)		
 for auxiliary cor 	ntacts			2x (24 14)	
Ambient conditions:						
Ambient temperature					_	
 during operation 			°C	-25 +60		
 during storage 			°C	-40 +80		
Derating temperature)		°C	40		
Protection class IP				IP00		
Contification / analysis			_			
Certificates/ approva		_	_	_	EMC	For use in
General Product	Approvai				EMC	hazardous locations
			E	AL	C	(Ex)
CCC	CA				C-TICK	ATEX
Test Certificates	<u> </u>	Shipping A	pproval		с-тіск	
	Type Test Certificates/Test Report	Shipping A	G	GL	C-TICK	ATEX
Test Certificates Special Test	Certificates/Test	ĴŠ DNV	G		Lloyd's Kegister	ATEX
Test Certificates Special Test Certificate	Certificates/Test	ĴŠ DNV	G		Lloyd's Kegister	ATEX

UL/CSA ratings:			
yielded mechanical performance [hp] for three-phase			
AC motor			
● at 220/230 V			
— at standard circuit at 50 °C Rated value	metric hp	30	
● at 460/480 V			
— at standard circuit at 50 °C Rated value	metric hp	75	
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=3RW40472BB04

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RW40472BB04/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RW40472BB04&lang=en







