SIEMENS

Data sheet

3RW40 47-2TB04



SIRIUS SOFT STARTER, S3, 106A, 55KW/400V, 40 DEGR., AC 200-480V, AC/DC 24V, SPRING-LOADED TERMINALS, THERMISTOR MOTOR PROTECTION

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		No	
Product component Motor brake output		No	
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 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			

	147	<u></u>
 — at standard circuit at 40 °C Rated value 	W	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	А	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:		
Control electronics: Type of voltage of the control supply voltage		AC/DC
Type of voltage of the control supply voltage	Hz	AC/DC 50
Type of voltage of the control supply voltage Control supply voltage frequency 1 Rated value		50
Type of voltage of the control supply voltageControl supply voltage frequency 1 Rated valueControl supply voltage frequency 2 Rated value	Hz	50 60
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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	clamping point			2x (10	1/0)	
 using both clan 	nping points			10 2/0		
Type of connectable	conductor cross-sec	tion for DIN				
cable lug for main co	ntacts					
 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	2.5 mm²)	
 finely stranded 	with core end proce	ssing		2x (0.25	1.5 mm²)	
Type of connectable AWG conductors	conductor cross-sec	tion for				
• for main contac	ots			2x (7 1	1/0)	
 for auxiliary cor 	ntacts			2x (24	14)	
Ambient conditions:						
Ambient temperature)					
 during operatio 	n		°C	-25 +6		
 during storage 			°C	-40 +8	0	
Derating temperature	•		°C	40		
Protection class IP				IP00		
Certificates/ approva	als:					
General Product	Approval				EMC	For use in hazardous locations
CCC	CSA			EAC	С-тіск	Ex ATEX
Test Certificates		Shipping A	pprova	l		
Crockel Test	Type Test	2 2			Loude	ALL STA
Special Test Certificate	Certificates/Test Report	DNV DNV		GL GL	LRS	PRS
	Certificates/Test	DNV				PRS
Certificate	Certificates/Test				LRS	PRS

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	30
	hp	
● at 460/480 V		
— at standard circuit at 50 °C Rated value	metric	75
	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=3RW40472TB04

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RW40472TB04/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RW40472TB04&lang=en







