SIEMENS

Data sheet

3RW40 47-1BB05



SIRIUS SOFT STARTER, S3, 106A, 75KW/500V, 40 DEGR., AC 400-600V, AC/DC 24V, SCREW 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 	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 according to IEC 204-2 acc. to IEC 750	G

	soft starters for standard applications
А	106
А	98
А	90
	A

 — at standard circuit at 40 °C Rated value 	W	55 000
● at 500 V		
— at standard circuit at 40 °C Rated value	W	75 000
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	400 600
Relative negative tolerance of the operating voltage at standard circuit	%	-15
Relative positive tolerance of the operating voltage at standard circuit	%	10
Minimum load in % of I_M	%	20
Adjustable motor current for motor overload protection minimum rated value	A	46
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	_	AC/DC
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	70	10
Relative positive tolerance of the control supply	%	10
voltage frequency		
Control supply voltage 1 with AC		
• at 50 Hz Rated value	V	24
• at 60 Hz Rated value	V	24
Relative negative tolerance of the control supply voltage with AC at 60 Hz	%	-20
Relative positive tolerance of the control supply voltage with AC at 60 Hz	%	20
Control supply voltage 1 for DC Rated value	V	24
Relative negative tolerance of the control supply voltage for DC	%	-20
Relative positive tolerance of the control supply voltage for DC	%	20
Display version for fault signal		red
Mechanical data:		
Size of engine control device		S3
Size of engine control device Width	mm	S3 70
Width		70
	mm mm mm	

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

Type of electrical connectionscrew-type terminals• for main current circuitscrew-type terminals• for auxiliary and control current circuit0Number of NC contacts for auxiliary contacts2Number of NC contacts for auxiliary contacts1Type of connectable conductor cross-section for main contacts for box terminal using the front clamping point2x (2.5 16 mm²)• solid2x (2.5 35 mm²• stranded4 70 mm²Type of connectable conductor cross-section for main contacts for box terminal using the front clamping point2x (2.5 16 mm²)• finely stranded with core end processing • stranded2x (2.5 16 mm²)• solid • solid2x (2.5 16 mm²)• solid • stranded2x (2.5 35 mm²• solid • stranded2x (2.5 35 mm²• solid • solid2x (2.5 35 mm²)• solid • stranded2x (2.5 35 mm²)• solid • stranded2x (10 50 mm²)• solid • solid2x (10 50 mm²)• solid • stranded2x (10 50 mm²)• solid • stranded2x (10 10)• solid • stranded2x (10 10)• solid •	Connections/ Terminals:		
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Type of connectable conductor cross-section for AWG conductors for main contacts for box terminal2x (10 1/0)• using the back clamping point2x (10 1/0)• using the front clamping point2x (10 1/0)	 finely stranded with core end processing 	2x (2.5 35 mm²)	
AWG conductors for main contacts for box terminal 2x (10 1/0) • using the back clamping point 2x (10 1/0) • using the front clamping point 2x (10 1/0)	• stranded	2x (10 50 mm²)	
• using the front clamping point 2x (10 1/0)			
	 using the back clamping point 	2x (10 1/0)	
• using both clamping points 10 2/0	 using the front clamping point 	2x (10 1/0)	
	 using both clamping points 	10 2/0	

Type of connectable conductor cross-se cable lug for main contacts	ection for DIN				
 finely stranded 			2 x (10 5	50 mm²)	
• stranded			2x (10 7	0 mm²)	
Type of connectable conductor cross-se auxiliary contacts	ection for	-			
• solid			2x (0.5 2	2.5 mm²)	
 finely stranded with core end proc 	essing		2x (0.5 1	.5 mm²)	
Type of connectable conductor cross-se AWG conductors	ection for	-			
 for main contacts 			2x (7 1/0))	
 for auxiliary contacts 			2x (20 14	4)	
 for auxiliary contacts finely strand end processing 	ed with core		2x (20 1	6)	
mbient conditions:					
Ambient temperature					
 during operation 		°C	-25 +60		
 during storage 		°C	-40 +80		
Derating temperature		°C	40		
Protection class IP		_	IP00		
Certificates/ approvals:					
General Product Approval				EMC	For use in hazardous locations
		E	AC	С-тіск	ATEX
Test Certificates	Shipping A	pproval			
Type TestSpecial TestCertificates/TestCertificateReportCertificate		C	GL	Lloyd's Register Lrs	PRS
other					

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 hp	75
● at 575/600 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

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Industry Mall (Online ordering system) http://www.siemens.com/industrymall

Cax online generator

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