SIEMENS

Data sheet

3RW30 46-1BB14



SIRIUS SOFT STARTER, SIZE S3, 80A, 45KW/400V, 40 DEGREES, 200-480V AC, 110-230V AC/DC, SCREW TERMINALS

product brand name	SIRIUS
Product feature	-
 integrated bypass contact system 	Yes
• Thyristors	Yes
Product function	_
Intrinsic device protection	No
 motor overload protection 	No
• Evaluation of thermistor motor protection	No
• External reset	No
 Adjustable current limitation 	No
• 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	80
А	73
А	66
	A

— at standard circuit at 40 °C Rated value	W	22 000
• at 400 V		
 — at standard circuit at 40 °C Rated value 	W	45 000
yielded mechanical performance [hp] for three-phase	metric	20
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 at standard circuit	%	-15
Relative positive tolerance of the operating voltage at standard circuit	%	10
Minimum load in % of I_M	%	10
Continuous operating current in % of I_e at 40 °C	%	115
Active power loss at operating current at 40 °C during operation typical	W	12
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	
Polotive positive telerance of the central supply	%	
Relative positive tolerance of the control supply	70	10
voltage frequency		
voltage frequency Control supply voltage 1 with AC at 50 Hz	V	110 230
voltage frequency Control supply voltage 1 with AC at 50 Hz Control supply voltage 1 with AC at 60 Hz		
voltage frequency Control supply voltage 1 with AC at 50 Hz	V	110 230
voltage frequency Control supply voltage 1 with AC at 50 Hz Control supply voltage 1 with AC at 60 Hz Relative negative tolerance of the control supply voltage with AC at 60 Hz Relative positive tolerance of the control supply	V V	110 230 110 230
voltage frequencyControl supply voltage 1 with AC at 50 HzControl supply voltage 1 with AC at 60 HzRelative negative tolerance of the control supply voltage with AC at 60 HzRelative positive tolerance of the control supply voltage with AC at 60 Hz	V V %	110 230 110 230 -15 10
voltage frequency Control supply voltage 1 with AC at 50 Hz Control supply voltage 1 with AC at 60 Hz 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	V V % V	110 230 110 230 -15 10 110 230
voltage frequencyControl supply voltage 1 with AC at 50 HzControl supply voltage 1 with AC at 60 HzRelative negative tolerance of the control supply voltage with AC at 60 HzRelative positive tolerance of the control supply voltage with AC at 60 Hz	V V %	110 230 110 230 -15 10
voltage frequencyControl supply voltage 1 with AC at 50 HzControl supply voltage 1 with AC at 60 HzRelative negative tolerance of the control supply voltage with AC at 60 HzRelative positive tolerance of the control supply voltage with AC at 60 HzControl supply voltage 1 for DCRelative negative tolerance of the control supply	V V % V	110 230 110 230 -15 10 110 230
voltage frequencyControl supply voltage 1 with AC at 50 HzControl supply voltage 1 with AC at 60 HzRelative negative tolerance of the control supply voltage with AC at 60 HzRelative positive tolerance of the control supply voltage with AC at 60 HzControl supply voltage 1 for DCRelative negative tolerance of the control supply voltage for DCRelative positive tolerance of the control supply	V V % % V %	110 230 110 230 -15 10 110 230 -15
voltage frequencyControl supply voltage 1 with AC at 50 HzControl supply voltage 1 with AC at 60 HzRelative negative tolerance of the control supply voltage with AC at 60 HzRelative positive tolerance of the control supply voltage with AC at 60 HzControl supply voltage 1 for DCRelative negative tolerance of the control supply voltage for DCRelative positive tolerance of the control supply voltage for DC	V V % % V %	110 230 110 230 -15 10 110 230 -15 10
voltage frequencyControl supply voltage 1 with AC at 50 HzControl supply voltage 1 with AC at 60 HzRelative negative tolerance of the control supply voltage with AC at 60 HzRelative positive tolerance of the control supply voltage with AC at 60 HzControl supply voltage 1 for DCRelative negative tolerance of the control supply voltage for DCRelative positive tolerance of the control supply voltage for DCDisplay version for fault signal	V V % % V %	110 230 110 230 -15 10 110 230 -15 10
voltage frequencyControl supply voltage 1 with AC at 50 HzControl supply voltage 1 with AC at 60 HzRelative negative tolerance of the control supply voltage with AC at 60 HzRelative positive tolerance of the control supply voltage with AC at 60 HzControl supply voltage 1 for DCRelative negative tolerance of the control supply voltage for DCRelative positive tolerance of the control supply voltage for DCMechanical data:	V V % % V %	110 230 110 230 -15 10 110 230 -15 10 red
voltage frequencyControl supply voltage 1 with AC at 50 HzControl supply voltage 1 with AC at 60 HzRelative negative tolerance of the control supply voltage with AC at 60 HzRelative positive tolerance of the control supply voltage with AC at 60 HzControl supply voltage 1 for DCRelative negative tolerance of the control supply voltage for DCRelative positive tolerance of the control supply voltage for DCDisplay version for fault signalMechanical data: Size of engine control device Width	V V % V %	110 230 110 230 -15 10 110 230 -15 10 red S3
voltage frequencyControl supply voltage 1 with AC at 50 HzControl supply voltage 1 with AC at 60 HzRelative negative tolerance of the control supply voltage with AC at 60 HzRelative positive tolerance of the control supply voltage with AC at 60 HzControl supply voltage 1 for DCRelative negative tolerance of the control supply voltage for DCRelative positive tolerance of the control supply voltage for DCRelative positive tolerance of the control supply voltage for DCRelative positive tolerance of the control supply voltage for DCDisplay version for fault signalMechanical data: Size of engine control device	V V % V % %	110 230 110 230 -15 10 110 230 -15 10 red S3 70

Mounting type		screw and snap-on mounting
mounting position		With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° tiltable to the front and back
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:		
Type of electrical connection		
 for main current circuit 		screw-type terminals
 for auxiliary and control current circuit 		screw-type terminals
Number of NC contacts for auxiliary contacts	_	0
Number of NO contacts for auxiliary contacts		1
Number of CO contacts for auxiliary contacts		0
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 mm²
• 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 		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 DIN cable lug for main contacts		

• finally strandad				2 x (10 5	(0 mm^2)		
finely stranded							
• stranded			_	2x (10 70	0 mm²)		
Type of connectable	conductor cross-se	ection for					
solid			2× (0 5 2				
			2x (0.5 2				
• finely stranded with core end processing			_	2X (0.5 1	2x (0.5 1.5 mm²)		
Type of connectable AWG conductors	conductor cross-se	ection for					
 for main contact 	ata			2x (7 1/0	n)		
 for auxiliary co 	ntacts			2x (20 14	+)		
mbient conditions:							
Ambient temperature	9						
 during operation 	on		°C	-25 +60			
 during storage 			°C	-40 +80			
Derating temperature	e		°C	40			
Protection class IP				IP00			
ertificates (approv			_				
certificates/ approv				_	ENO	Test	
General Product	t Approval				EMC	Test Certificates	
						Type Test	
(\mathbf{m})	(SP	(UL)		- AL		Certificates/Test Report	
CCC	CSA				C-TICK	Report	
Test	other						
Certificates							
Special Test	Declaration of	other		Environmental			
Contification	0 (Confirmations			

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	25
	hp	
● at 460/480 V		
— at standard circuit at 50 °C Rated value	metric	50
	hp	
Contact rating of the auxiliary contacts acc. to UL		B300 / R300

Certificate

Conformity

Confirmations

⁻urther information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

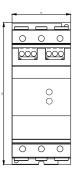
http://www.siemens.com/industrymall

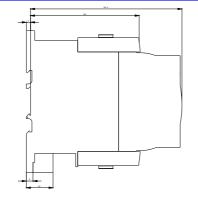
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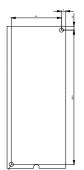
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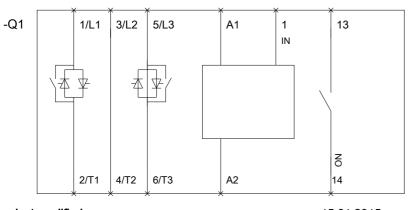
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RW30461BB14/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RW30461BB14&lang=en









last modified:

15.01.2015