SIEMENS

Data sheet

3RW4056-2BB44



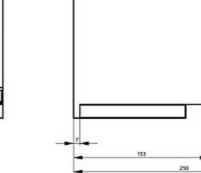
SIRIUS soft starter S6 162 A, 90 kW/400 V, 40 °C 200-460 V AC, 230 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5056-2AB14<<

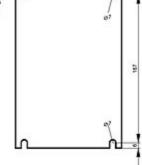
product brand name		SIRIUS
product feature		
 integrated bypass contact system 		Yes
• thyristors		Yes
product function		
intrinsic device protection		Yes
 motor overload protection 		Yes
 evaluation of thermistor motor protection 		No
external reset		Yes
 adjustable current limitation 		Yes
inside-delta circuit		No
product component motor brake output		No
insulation voltage rated value	V	600
degree of pollution		3, acc. to IEC 60947-4-2
reference code acc. to DIN EN 61346-2		Q
reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		G
ower Electronics		
product designation		Soft starter
operational current		
• at 40 °C rated value	А	162
• at 50 °C rated value	А	145
• at 60 °C rated value	А	125
yielded mechanical performance for 3-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	W	45 000
• at 400 V		
- at standard circuit at 40 °C rated value	W	90 000
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	40
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

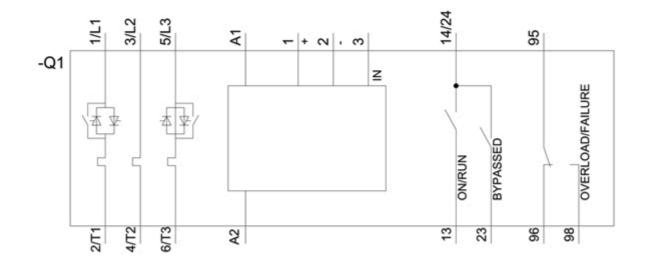
	_	
standard circuit		
minimum load [%]	%	20
adjustable motor current for motor overload protection minimum rated value	A	87
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during	W	75
operation typical		
Control circuit/ Control		
type of voltage of 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 voltage frequency	%	-10
relative positive tolerance of the control supply voltage frequency	%	10
control supply voltage 1 at AC		
• at 50 Hz rated value	V	230
• at 60 Hz rated value	V	230
relative negative tolerance of the control supply voltage at AC at 50 Hz	%	-15
relative positive tolerance of the control supply voltage at AC at 50 Hz	%	10
relative negative tolerance of the control supply voltage at AC at 60 Hz	%	-15
relative positive tolerance of the control supply voltage at AC at 60 Hz	%	10
display version for fault signal		red
Mechanical data		
size of engine control device	_	S6
width	mm	120
height	mm	198
depth	mm	250
fastening method	_	screw fixing
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	100
at the side	mm	5
downwards	mm	75
wire length maximum	m	300
number of poles for main current circuit		3
Connections/ Terminals		
type of electrical connection		
 for main current circuit 		busbar connection
 for auxiliary and control circuit 		spring-loaded terminals
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-sections for main contacts for box terminal using the front clamping point		
 finely stranded with core end processing 		16 70 mm²
 finely stranded without core end processing 		16 70 mm²
stranded		16 70 mm²
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		
 finely stranded with core end processing 		16 70 mm²
 finely stranded without core end processing 		16 70 mm²

stranded			16 70 mm²		
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points	-				
 finely stranded with core end processing 			max. 1x 50 m	m², 1x 70 mm²	
 finely stranded without core end processing 			max. 1x 50 m	m², 1x 70 mm²	
stranded			max. 2x 70 m	m²	
type of connectable conductor cross-sections at AWG cables for main contacts for box terminal	-				
 using the back clamping point 			6 2/0		
 using the front clamping point 			6 2/0		
 using both clamping points 			max. 2x 1/0		
type of connectable conductor cross-sections for DIN cable lug for main contacts					
 finely stranded 			2x (16 95 n	nm²)	
stranded			2x (25 120	mm²)	
type of connectable conductor cross-sections for auxiliary contacts					
• solid			2x (0.25 1.		
finely stranded with core end processing			2x (0.25 1.5	5 mm²)	
type of connectable conductor cross-sections at AWG cables					
• for main contacts			4 250 kcmi		
for auxiliary contacts	_	_	2x (24 16)		
Ambient conditions					
installation altitude at height above sea level	m		5 000		
environmental category					
 during transport acc. to IEC 60721 				1, 2M2 (max. fall height	,
 during storage acc. to IEC 60721 			1S2 (sand mu	asional condensation), ist not get inside the de	vices), 1M4
during operation acc. to IEC 60721	_		`	ation of ice, no condens and must not get into the	
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
			EAC	EHC	RCM
For use in hazardous Declaration of Conformity locations		Test	Certificates	Marine / Shipping	
Miscellaneous ATEX EG-Konf.			<u>oecial Test</u> Certificate	Lloyd's Register LRS	DINV-GL.
other					
Confirmation					

yielded mechanical performance [hp] for motor	or 3-phase AC			
• at 220/230 V				
— at standard circuit at 50 °C rate	ed value	hp	50	
• at 460/480 V				
— at standard circuit at 50 °C rate	ed value	hp	100	
contact rating of auxiliary contacts acc	ording to UL		B300 / R300	
urther information				
Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/w		917		
Information- and Downloadcenter (Cata https://www.siemens.com/ic10				
Industry Mall (Online ordering system)				
https://mall.industry.siemens.com/mall/en/	/en/Catalog/product	t?mlfb=3RW4	<u>)56-2BB44</u>	
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