SIEMENS

Data sheet

3RW4056-6BB34



SIRIUS soft starter S6 145 A, 100 hp/460 V, 50 °C 200-460 V AC, 115 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5056-6AB14<<

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
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
Power 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
relative positive tolerance of the operating voltage at	%	10

	_	
standard circuit		
minimum load [%]	%	20
adjustable motor current for motor overload protection minimum rated value	А	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	115
at 60 Hz rated value	V	115
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	-	screw-type 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		
main contacts for box terminal using the back		16 70 mm²

		40 70			
• 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 mm	², 1x 70 mm²		
 finely stranded without core end processing 		max. 1x 50 mm	², 1x 70 mm²		
stranded		max. 2x 70 mm	2		
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 mn	1²)		
stranded	-	2x (25 120 m	m²)		
type of connectable conductor cross-sections for auxiliary contacts					
• solid		2x (0.5 2.5 m	m²)		
 finely stranded with core end processing 		2x (0.5 1.5 m	m²)		
type of connectable conductor cross-sections at AWG cables					
 for main contacts 		4 250 kcmil			
 for auxiliary contacts 		2x (20 14)			
 for auxiliary contacts finely stranded with core end processing 		2x (20 16)			
Ambient conditions					
installation altitude at height above sea level	m	5 000			
environmental category					
 during transport acc. to IEC 60721 		2K2, 2C1, 2S1,	2M2 (max. fall heigh	t 0.3 m)	
 during storage acc. to IEC 60721 			sional condensation),		
• during operation acc. to IEC 60721		3K6 (no formati	t not get inside the de on of ice, no condens d must not get into th	sation), 3C3 (no salt	
ambient temperature	-	1115t), 552 (San	a must not get mito th		
during operation	°C	-25 +60			
during storage	°C	-40 +80			
derating temperature	°C	40 40			
protection class IP on the front acc. to IEC 60529		IP00; IP20 with	cover		
touch protection on the front acc. to IEC 60529	-		vertical contact from	the front with cover	
Certificates/ approvals		iniger cale, for			
	_			Farmer in barrent	
General Product Approval			EMC	For use in hazard- ous locations	
		rnr	A		
		t M L			
Declaration of Conformity Test Certification	ates M	arine / Shipping		other	
CC <u>Miscellaneous</u> <u>Special Test C</u> ate	ertific-	Llovds	And and a second second	Confirmation	
		register	DNV-GL		
EG-Konf.		LRS	Divid Lobison		
UL/CSA ratings					
yielded mechanical performance [hp] for 3-phase AC					
motor					

• at 220/230 V						
- at standard circuit at 50 °C rated value	hp	50				
• at 460/480 V						
— at standard circuit at 50 °C rated value	hp	100				
contact rating of auxiliary contacts according to UL		B300 / R300				
Further information						
Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917						
Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10						
Industry Mall (Online ordering system)						

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4056-6BB34

Cax online generator

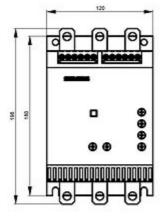
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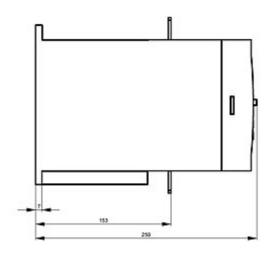
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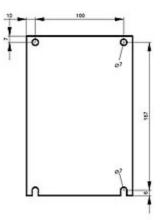
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

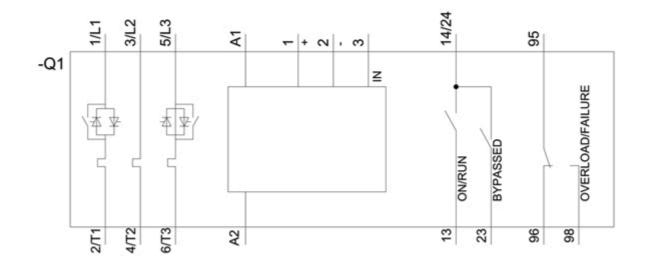
https://support.industry.siemens.com/cs/ww/en/ps/3RW4056-6BB34

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4056-6BB34&lang=en









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