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 	kW	45 000
• at 400 V		
- at standard circuit at 40 °C rated value	kW	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 standard circuit	%	10
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 operation typical	W	75
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		
 finely stranded with core end processing 		16 70 mm²
 finely stranded without core end processing stranded 		16 70 mm² 16 70 mm²
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		

 finely stranded 	d with core end processir	ng		max. 1x 50 m	1m², 1x 70 mm²		
 finely stranded without core end processing 				max. 1x 50 mm², 1x 70 mm²			
stranded				max. 2x 70 mm ²			
	e conductor cross-sect ntacts for box terminal	tions at AWG					
 using the back 	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 cable lug for main of	e conductor cross-sect contacts	tions for DIN					
finely stranded				2x (16 95 mm²)			
stranded				2x (25 120 mm²)			
type of connectable auxiliary contacts	e conductor cross-sect	tions for					
 solid 	• solid			2x (0.5 2.5 mm²)			
	with core end processir			2x (0.5 1.5	mm²)		
cables	e conductor cross-sect	tions at AWG					
• for main conta				4 250 kcmil			
 for auxiliary co 				2x (20 14)			
 for auxiliary co processing 	ontacts finely stranded wi	ith core end		2x (20 16)			
Ambient conditions							
	at height above sea le	vel	m	5 000			
environmental cate							
during transport acc. to IEC 60721				2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)			
• during storage acc. to IEC 60721				1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4			
during operation acc. to IEC 60721				3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6			
ambient temperatu	re						
 during operation 	on		°C	-25 +60			
 during storage 			°C	-40 +80			
derating temperatu			°C	40			
	protection class IP on the front acc. to IEC 60529			IP00; IP20 with cover			
· ·	n the front acc. to IEC 6	50529		finger-safe, fo	or vertical contact from	the front with cover	
Certificates/ approva	als	_		_			
General Product A	pproval				EMC	For use in hazard- ous locations	
					A		
(SP.	(m)	(ŲL)		FHI		<(£x)	
CSA	ccc	UL		LIIL	RCM	ATEX	
Declaration of Conformity	Test Certificates	Marine / Shipping	I		other		
	Special Test Certific-			STREE ASL	Confirmation		
(E	ate	Register					
EG-Konf.		LRS		DNV-GL			
		But 1 af					
UL/CSA ratings							
	I performance [hp] for 3	3-phase AC					
motor • at 220/230 V							
— at standard circuit at 50 °C rated value hp				50			
• at 460/480 V							

• at 460/480 V

- at standard circuit at 50 °C rated value

hp

100

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

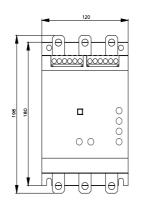
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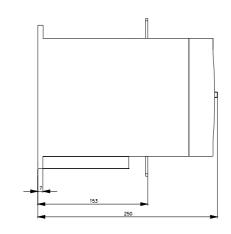
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4056-6BB34

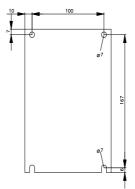
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

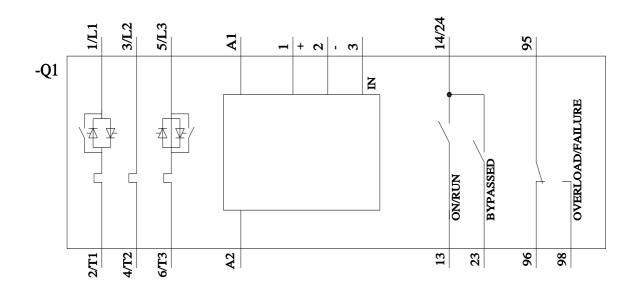
https://support.industry.siemens.com/cs/ww/en/ps/3RW4056-6BB34

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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