## SIEMENS

## Data sheet

## 3RW4056-6BB35



SIRIUS soft starter S6 145 A, 150 hp/575 V, 50 °C 400-600 V AC, 115 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5056-6AB15<<

General technical data		
product brand name		SIRIUS
product feature		
<ul> <li>integrated bypass contact system</li> </ul>		Yes
thyristors		Yes
product function		
<ul> <li>intrinsic device protection</li> </ul>		Yes
<ul> <li>motor overload protection</li> </ul>		Yes
<ul> <li>evaluation of thermistor motor protection</li> </ul>		No
external reset		Yes
<ul> <li>adjustable current limitation</li> </ul>		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		
<ul> <li>at 40 °C rated value</li> </ul>	А	162
• at 50 °C rated value	А	145
• at 60 °C rated value	А	125
yielded mechanical performance for 3-phase motors		
• at 400 V		
— at standard circuit at 40 °C rated value	W	90 000
● at 500 V		
— at standard circuit at 40 °C rated value	W	110 000
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	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 [%]	%	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 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		
<ul> <li>for main current circuit</li> </ul>		busbar connection
<ul> <li>for auxiliary and control circuit</li> </ul>		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		
<ul> <li>finely stranded with core end processing</li> </ul>		16 70 mm <sup>2</sup>
<ul> <li>finely stranded without core end processing</li> </ul>		16 70 mm <sup>2</sup>
stranded		16 70 mm²
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		
<ul> <li>finely stranded with core end processing</li> </ul>		16 70 mm²
		16 70 mm²
<ul> <li>finely stranded without core end processing</li> </ul>		
finely stranded without core end processing     stranded  type of connectable conductor cross-sections for		16 70 mm <sup>2</sup>

<ul> <li>main contacts for box terminal using both clar points</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> </ul>				nm², 1x 70 mm² nm², 1x 70 mm²	
stranded     stranded			max. 1x 30 r max. 2x 70 r		
type of connectable conductor cross-sections cables for main contacts for box terminal • using the back clamping point • using the front clamping point	at AWG		6 2/0 6 2/0		
using both clamping points     type of connectable conductor cross-sections     cable lug for main contacts	for DIN		max. 2x 1/0		
<ul> <li>finely stranded</li> <li>stranded</li> </ul>			2x (16 95 2x (25 120	,	
type of connectable conductor cross-sections auxiliary contacts • solid	for		2x (0.5 2.5	,	
<ul> <li>finely stranded with core end processing</li> </ul>			2x (0.5 1.5	5 mm²)	
type of connectable conductor cross-sections cables	at AWG				
<ul> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts finely stranded with coprocessing</li> </ul>	pre end		4 250 kcm 2x (20 14) 2x (20 16)		
Ambient conditions					
installation altitude at height above sea level	_	m	5 000		
<ul> <li>environmental category</li> <li>during transport acc. to IEC 60721</li> <li>during storage acc. to IEC 60721</li> <li>during operation acc. to IEC 60721</li> </ul>			1K6 (only oc 1S2 (sand m 3K6 (no form	61, 2M2 (max. fall heigl casional condensation) ust not get inside the d lation of ice, no conder	, 1C2 (no salt mist), evices), 1M4 isation), 3C3 (no salt
ambient temperature			mist), 3S2 (s	and must not get into tl	ne devices), 3M6
ambient temperature <ul> <li>during operation</li> </ul>		°C	-25 +60		
during storage		°C	-40 +80		
derating temperature		°C	40		
protection class IP on the front acc. to IEC 605			IP00; IP20 with cover finger-safe, for vertical contact from the front with cover		
touch protection on the front acc. to IEC 60529 Certificates/ approvals	9		iinger-sale, i	or ventical contact from	the front with cover
		_			For use in hazard-
General Product Approval				EMC	ous locations
	(UL) u		EHC	RCM	KEX ATEX
Declaration of Conformity Test Certificates Ma	arine / Shippi	ng		other	
EG-Konf. Special Test Certific- ate	Llovd's Register uts		DNV-GL	<u>Confirmation</u>	
UL/CSA ratings yielded mechanical performance [hp] for 3-pha motor	ase AC	-			

— at standard circuit at 50 °C rated value	hp	100
• at 575/600 V	ΠÞ	100
• at 5/5/600 v		
<ul> <li>— at standard circuit at 50 °C rated value</li> </ul>	hp	150
contact rating of auxiliary contacts according to UL		B300 / R300
Further information		

urther 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=3RW4056-6BB35

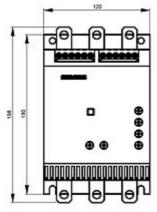
Cax online generator

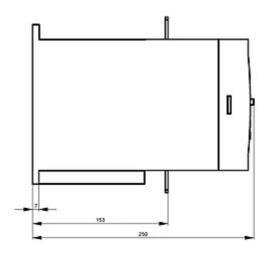
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4056-6BB35

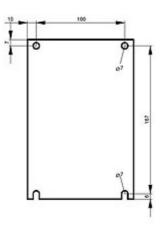
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

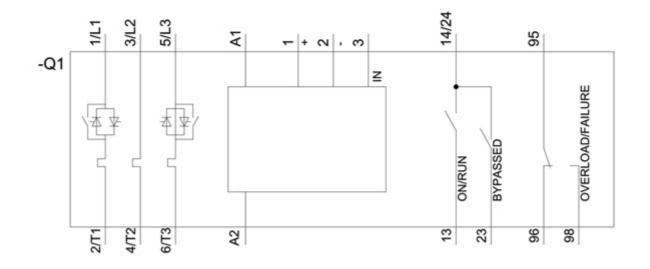
https://support.industry.siemens.com/cs/ww/en/ps/3RW4056-6BB35

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4056-6BB35&lang=en









last modified:

12/15/2020 🖸