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		
 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 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		
 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 mm ²
 finely stranded without core end processing 		16 70 mm ²
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
		16 70 mm²
 finely stranded without core end processing 		
finely stranded without core end processing stranded type of connectable conductor cross-sections for		16 70 mm ²

 main contacts for box terminal using both clar points finely stranded with core end processing finely stranded without core end processing 				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		
 finely stranded stranded 			2x (16 95 2x (25 120	,	
type of connectable conductor cross-sections auxiliary contacts • solid	for		2x (0.5 2.5	,	
 finely stranded with core end processing 			2x (0.5 1.5	5 mm²)	
type of connectable conductor cross-sections cables	at AWG				
 for main contacts for auxiliary contacts for auxiliary contacts finely stranded with coprocessing 	pre end		4 250 kcm 2x (20 14) 2x (20 16)		
Ambient conditions					
installation altitude at height above sea level	_	m	5 000		
 environmental category during transport acc. to IEC 60721 during storage acc. to IEC 60721 during operation acc. to IEC 60721 			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 during operation 		°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		
 — at standard circuit at 50 °C rated value 	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

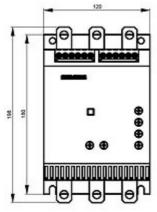
Cax online generator

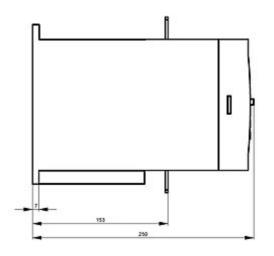
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4056-6BB35

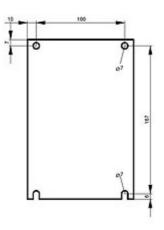
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

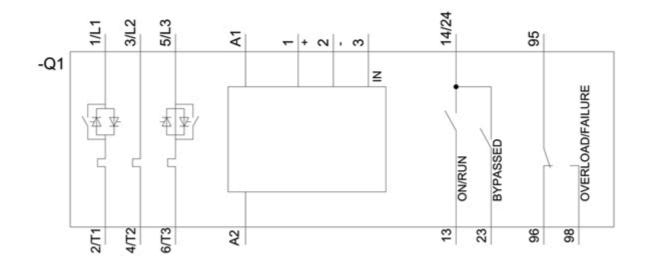
https://support.industry.siemens.com/cs/ww/en/ps/3RW4056-6BB35

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 🖸