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 according to EN 61346-2		Q		
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750		G		
Power Electronics				
product designation		Soft starter		
operational current		Con stanton		
at 40 °C rated value	А	162		
at 50 °C rated value	A	145		
at 60 °C rated value	A	125		
yielded mechanical performance for 3-phase motors	7.	120		
• at 400 V				
at 100 v a	kW	90		
• at 500 V				
at standard circuit at 40 °C rated value	kW	110		
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	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	VV			

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	%	-10
voltage frequency	70	-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		
		26
size of engine control device		\$6 120
width	mm	120
height	mm	198
depth	mm	250
fastening method		screw fixing With additional fan: With vertical mounting surface ±/ 00°
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		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 mm², 1x 70 mm²
finely stranded with core end processing finely stranded without core end processing		max. 1x 50 mm², 1x 70 mm²
stranded stranded		max. 2x 70 mm ²
type of connectable conductor cross-sections at AWG cables for main contacts for box terminal		HIGA. ZA 70 HIIII
 using the back clamping point 		6 2/0
using the back clamping pointusing the front clamping point		6 2/0 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 mm²)
stranded		2x (25 120 mm²)
type of connectable conductor cross-sections for auxiliary contacts		
• solid		2x (0.5 2.5 mm²)
 finely stranded with core end processing 		2x (0.5 1.5 mm²)
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 according to IEC 60721 		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
during storage according to IEC 60721		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
 during operation according to IEC 60721 		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
ambient temperature		
during operation	°C	-25 +60
during storage	°C	-40 +80
derating temperature	°C	40
protection class IP on the front according to IEC 60529		IP00; IP20 with cover
touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front with cover
Certificates/ approvals		

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General Product Approval



Confirmation







EMC

Declaration of Conformity

Test Certificates

Marine / Shipping

other



Special Test Certificate





Confirmation

UL/CSA ratings				
yielded mechanical performance [hp] for 3-phase AC motor				
• at 460/480 V				
 at standard circuit at 50 °C rated value 	hp	100		
• at 575/600 V				
 at standard circuit at 50 °C rated value 	hp	150		
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 Download center (Catalogs, Brochures,...)

https://www.siemens.com/ic10

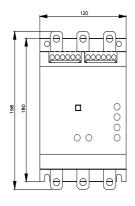
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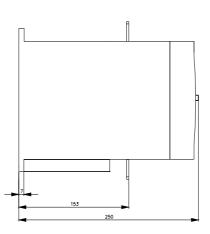
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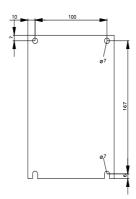
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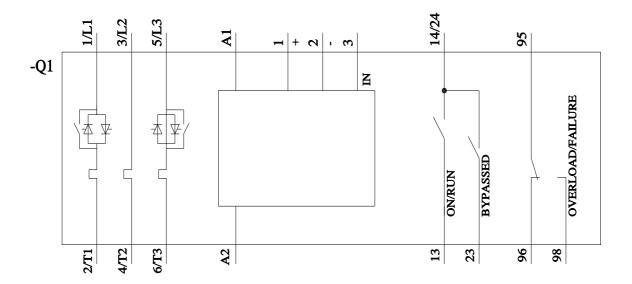
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4056-6BB35

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









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