SIEMENS

Data sheet 3RW4056-2BB44



SIRIUS soft starter S6 162 A, 90 kW/400 V, 40 °C 200-460 V AC, 230 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5056-2AB14<<

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 	Α	162
 at 50 °C rated value 	Α	145
 at 60 °C rated value 	Α	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		00
minimum load [%] adjustable motor current for motor overload	- % A	20 87
protection minimum rated value	А	67
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		<u>, </u>
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	230
at 60 Hz rated value	V	230
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		spring-loaded terminals
number of NC contacts for auxiliary contacts		0
number of NO contacts for auxiliary contacts		2
type of connectable conductor cross-sections for main contacts for box terminal using the front		1
clamping point		16 70 mm²
finely stranded with core end processing finely stranded without 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		10 10 111111
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 without core end processing 		max. 1x 50 mm², 1x 70 mm²	
• stranded		max. 2x 70 mm²	
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 mm²)	
stranded		2x (25 120 mm²)	
type of connectable conductor cross-sections for auxiliary contacts			
• solid		2x (0.25 1.5 mm²)	
 finely stranded with core end processing 	_	2x (0.25 1.5 mm²)	
type of connectable conductor cross-sections at AWG cables			
for main contacts		4 250 kcmil	
for auxiliary contacts		2x (24 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 height	0.3 m)
 during storage acc. to IEC 60721 		1K6 (only occasional condensation), 1S2 (sand must not get inside the de	\ //
 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 temperature			
 during operation 	°C	-25 +60	
during storage	°C	-40 +80	
derating temperature	°C	40	
protection class IP on the front acc. to IEC 60529		IP00; IP20 with cover	
touch protection on the front acc. to IEC 60529		finger-safe, for vertical contact from the front with cover	
Certificates/ approvals			
General Product Approval		EMC	For use in hazard-

General Product Approval

EMC

For use in hazardous locations













Declaration of Conformity

Test Certificates

Marine / Shipping

other

Miscellaneous



Special Test Certificate

Lloyd's Register



Confirmation

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=3RW4056-2BB44

Cax online generator

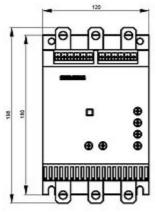
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4056-2BB44

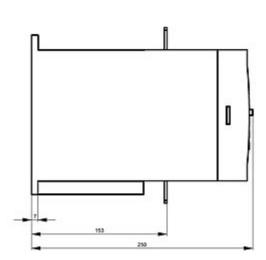
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

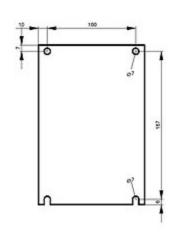
https://support.industry.siemens.com/cs/ww/en/ps/3RW4056-2BB44

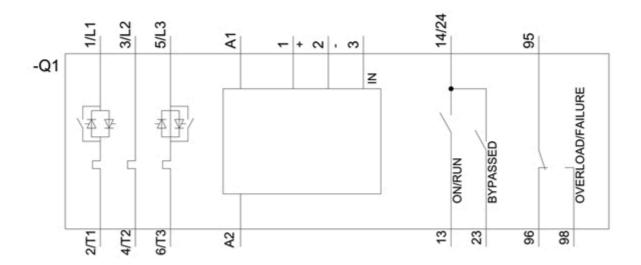
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4056-2BB44&lang=en









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