SIEMENS

Data sheet 3RW4056-6BB44



SIRIUS soft starter S6 162 A, 90 kW/400 V, 40 °C 200-460 V AC, 230 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 according to EN 61346-2		Q
reference code according to DIN 40719 extended		G
according to IEC 204-2 according to IEC 750 Power Electronics		
product designation		Soft starter
operational current		Con starter
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	^	123
• at 230 V		
at standard circuit at 40 °C rated value	kW	45
• at 400 V	KVV	45
— at standard circuit at 40 °C rated value	kW	90
yielded mechanical performance [hp] for 3-phase AC	hp	40
motor at 200/208 V at standard circuit at 50 °C rated value	Пр	
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	A	87
protection minimum rated value		

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		
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		
relative positive tolerance of the control supply	%	10
voltage frequency		
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		\$6
width	mm	120
	mm	
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
		0
number of NC contacts for auxiliary contacts		
number of NO contacts for auxiliary contacts		2
number of CO contacts for auxiliary contacts 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 and processing		16 70 mm²
finely stranded without core end processingstranded		16 70 mm ² 16 70 mm ²
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 processingstranded		16 70 mm ² 16 70 mm ²
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 stranded		max. 2x 70 mm ²
type of connectable conductor cross-sections at AWG		
type of connectable conductor cross-sections at Avvi-		

 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 (0.5 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		

Certificates/ approvals

General Product Approval

EMC





Confirmation







Test Certificates

Marine / Shipping

other



Special Test Certificate





Confirmation

OL/OUA ratings	
yielded mechanical performance [hp] for 3-phase AC motor	
• at 220/230 V	

— at standard circuit at 50 °C rated value \bullet at 460/480 V

— at standard circuit at 50 °C rated value contact rating of auxiliary contacts according to UL

hp 50

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)

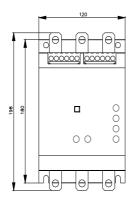
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4056-6BB44

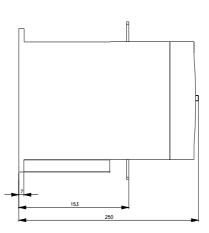
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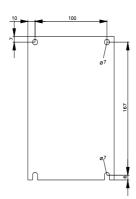
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4056-6BB44

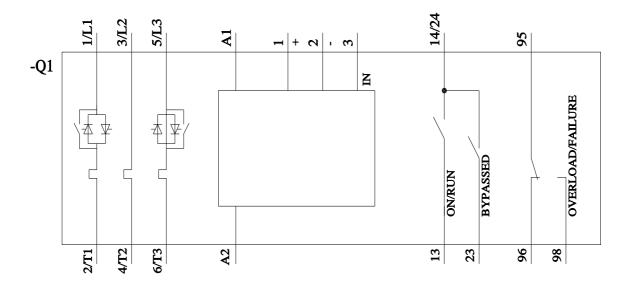
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4056-6BB44

 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$ http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4056-6BB44&lang=en









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