SIEMENS

Data sheet 3RW4055-2BB45



SIRIUS soft starter S6 134 A, 90 kW/500 V, 40 °C 400-600 V AC, 230 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5055-2AB15<<

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	134		
 at 50 °C rated value 	Α	117		
at 60 °C rated value	Α	100		
yielded mechanical performance for 3-phase motors				
• at 400 V				
 at standard circuit at 40 °C rated value 	W	75 000		
● at 500 V				
 at standard circuit at 40 °C rated value 	W	90 000		
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		
	%	20		

adjustable motor current for motor overload protection minimum rated value	А	59
continuous operating current [% of le] at 40 °C	- %	115
power loss [W] at operational current at 40 °C during operation typical	W	60
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		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
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 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 processing		16 70 mm²
stranded		16 70 mm²
stranded type of connectable conductor cross-sections for		

• finely stranded with core end processing • finely stranded without core end processing • stranded type of connectable conductor cross-sections at AWG cables for main contacts for box terminal • using the back clamping point • using both clamping point • using both clamping point • using both clamping points type of connectable conductor cross-sections for DIN cable lug for main contacts • finely stranded • finely stranded • finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing type of connectable conductor cross-sections at AWG cables • for main contacts • for main contacts • for maxiliary contacts • for maxiliary contacts • for auxiliary contacts • for uniquity and the stranded • for maxiliary contacts • for one conditions installation altitude at height above sea level • during storage acc. to IEC 60721 • during storage acc. to IEC 60721 • during operation acc. to IEC 60721 • during operation acc. to IEC 60721 • during operation acc. to IEC 60721 • during storage • for unity for the front acc. to IEC 60529 Finger-sale, for vertical contact from the front with cover finger-sale, for vertical contact from the front with cover	main contacts for box terminal using both clamping points		
• finely stranded without core end processing • stranded stranded type of connectable conductor cross-sections at AWG cables for main contacts • using the back clamping point • using both clamping points • using both clamping points type of connectable conductor cross-sections for DIN cable lug for main contacts • finely stranded • stranded • stranded type of connectable conductor cross-sections for DIN cable lug for main contacts • finely stranded • stranded • stranded • finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing type of connectable conductor cross-sections at AWG cables • for main contacts • for auxiliary contacts • for auxiliary contacts Installation altitude at height above sea level environmental category • during transport acc. to IEC 60721 • during storage acc. to IEC 60721 • during operation acc. to IEC 60721 • during operation acc. to IEC 60721 • during operation • during operation • during operation • during storage derating temperature • during storage derating temperature • during storage derating temperature of current at the fort acc. to IEC 60529 max. 1x 70 mm² 2x (20.25 120 mm²) 2x (25 120 mm²) 2x (25 120 mm²) 2x (0.25 1.5	•		max. 1x 50 mm², 1x 70 mm²
stranded type of connectable conductor cross-sections at AWG cables for main contacts for box terminal			
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cable lug for main contacts	 using both clamping points 		max. 2x 1/0
stranded type of connectable conductor cross-sections for auxiliary contacts	71		
type of connectable conductor cross-sections for auxiliary contacts • solid • solid • finely stranded with core end processing type of connectable conductor cross-sections at AWG cables • for main contacts • for auxiliary contacts • for main contacts • for auxiliary contacts • for auxilia	 finely stranded 		2x (16 95 mm²)
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derating temperature °C 40 protection class IP on the front acc. to IEC 60529 IP00; IP20 with cover	during operation	°C	-25 +60
derating temperature °C 40 protection class IP on the front acc. to IEC 60529 IP00; IP20 with cover	during storage	°C	-40 +80
	derating temperature	°C	40
touch protection on the front acc. to IEC 60529 finger-safe, for vertical contact from the front with cover	protection class IP on the front acc. to IEC 60529		IP00; IP20 with cover
	•		finger-safe, for vertical contact from the front with cover

General Product Approval

EMC

For use in hazardous locations













Declaration of Conformity

Test Certificates

Marine / Shipping

other



Special Test Certificate

Lloyd's Register



Confirmation

UL/CSA ratings yielded mechanical performance [hp] for 3-phase AC

• at 460/480 V

motor

— at standard circuit at 50 °C rated value

• at 575/600 V

hp 75

Subje

hp

B300 / R300

100

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=3RW4055-2BB45

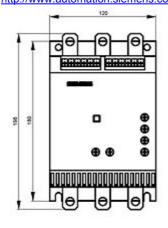
Cax online generator

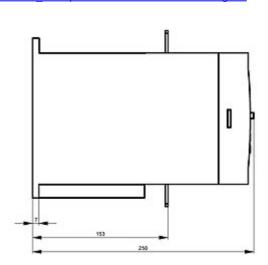
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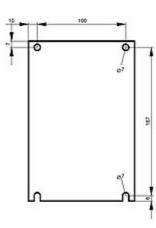
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

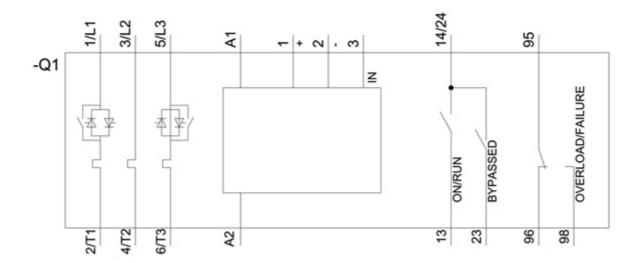
https://support.industry.siemens.com/cs/ww/en/ps/3RW4055-2BB45

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4055-2BB45&lang=en









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