# **SIEMENS**

## Data sheet

## 3RW40 55-6BB45



SIRIUS SOFT STARTER, S6, 134 A, 90 KW/500 V, 40 DEG., 400-600 V AC, 230 V AC, SCREW TERMINALS

product brand name	SIRIUS
Product feature	-
<ul> <li>integrated bypass contact system</li> </ul>	Yes
• Thyristors	Yes
Product function	-
<ul> <li>Intrinsic device protection</li> </ul>	Yes
<ul> <li>motor overload protection</li> </ul>	Yes
<ul> <li>Evaluation of thermistor motor protection</li> </ul>	No
• External reset	Yes
<ul> <li>Adjustable current limitation</li> </ul>	Yes
• inside-delta circuit	No
Product component Motor brake output	No
Equipment marking acc. to DIN EN 61346-2	Q
Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750	G

	soft starters for standard applications
А	134
А	117
А	100
	A

— 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	%	-10
frequency		
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 in % of I_M	%	20
Adjustable motor current for motor overload	А	59
protection minimum rated value		
Continuous operating current in % of I_e at 40 °C	%	115
Active power loss at operating current at 40 °C during	W	60
operation typical		
Control electronics:		
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 with AC		
• at 50 Hz Rated value	V	230
• at 60 Hz Rated value	V	230
Relative negative tolerance of the control supply voltage with AC at 60 Hz	%	-15
Relative positive tolerance of the control supply voltage with AC at 60 Hz	%	10
Display version for fault signal		red
		red
Mechanical data:		
Mechanical data: Size of engine control device	mm	S6
Mechanical data: Size of engine control device Width	mm	S6 120
Mechanical data: Size of engine control device Width Height	mm	S6 120 198
Mechanical data: Size of engine control device Width	-	S6 120

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
Installation altitude at height above sea level	m	5 000
Cable length maximum	m	300
Number of poles for main current circuit		3
Connections/ Terminals:		
Type of electrical connection		
<ul> <li>for main current circuit</li> </ul>		busbar connection
<ul> <li>for auxiliary and control current circuit</li> </ul>		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-section for main contacts for box terminal using the front clamping point		
<ul> <li>finely stranded with core end processing</li> </ul>		16 70 mm²
<ul> <li>finely stranded without core end processing</li> </ul>		16 70 mm²
• stranded		16 70 mm²
Type of connectable conductor cross-section for main contacts for box terminal using the back clamping point		
finally stranded with core and processing		16 70 mm <sup>2</sup>

16 70 mm²
16 70 mm²
16 70 mm²
max. 1x 50 mm <sup>2</sup> , 1x 70 mm <sup>2</sup>
max. 1x 50 mm², 1x 70 mm²
max. 2x 70 mm <sup>2</sup>
6 2/0
6 2/0
max. 2x 1/0

<ul> <li>finely stranded</li> </ul>		16 95 mm	2	
• stranded		25 120 mi	m²	
Type of connectable conductor cross-section for	-			
auxiliary contacts				
• solid		2x (0.5 2.5		
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 1.5	5 mm²)	
Type of connectable conductor cross-section for AWG conductors				
• for main contacts		4 250 kcm	nil	
<ul> <li>for auxiliary contacts</li> </ul>		2x (20 14)	)	
<ul> <li>for auxiliary contacts finely stranded with core end processing</li> </ul>		2x (20 16)	)	
mbient conditions:				
Ambient temperature				
<ul> <li>during operation</li> </ul>	°C	-25 +60		
during storage	°C	-40 +80		
Derating temperature	°C	40		
Protection class IP		IP00		
Certificates/ approvals:				
General Product Approval	EN	1C	For use in hazardous locations	Test Certificates
General Product Approval		С	hazardous	
General Product Approval         Image: CSA         Image: CSA     <		TICK	hazardous locations	Certificates
Shipping Approval	oth	TICK	hazardous locations	Certificates
Shipping Approval	oth	TICK her nvironmental	hazardous locations	Certificates
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Shipping Approval	oth	TICK her nvironmental	hazardous locations	Certificates
$\underbrace{K}_{CSA} \qquad \underbrace{K}_{UL} \qquad K$	oth	TICK her nvironmental	hazardous locations	Certificates

100

metric

hp

#### Contact rating of the auxiliary contacts acc. to UL

B300 / R300

#### Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

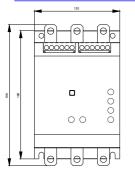
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

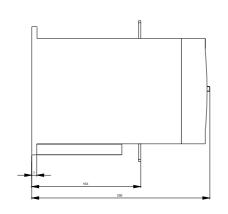
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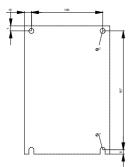
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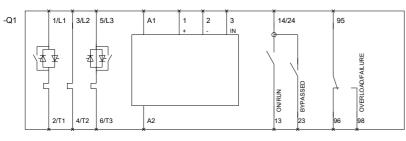
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RW40556BB45/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RW40556BB45&lang=en









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