### **SIEMENS**

Data sheet 3RW40 75-2BB45



SIRIUS SOFT STARTER, S12, 356 A, 250 KW/500 V, 40 DEG., 400-600 V AC, 230 V AC, CAGE CLAMP TERMINALS

General technical data:				
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		

Power Electronics:				
Product designation		soft starters for standard applications		
Operating current				
● at 40 °C Rated value	Α	356		
• at 50 °C Rated value	Α	315		
• at 60 °C Rated value	Α	280		
Mechanical power output for three-phase motors				
● at 400 V				

at atom don't since it at 40 °C Data decales	W	200 000
— at standard circuit at 40 °C Rated value	VV	200 000
• at 500 V	147	050 000
— at standard circuit at 40 °C Rated value	W	250 000
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
Minimum load in % of I_M	%	20
Adjustable motor current for motor overload protection minimum rated value	Α	131
Continuous operating current in % of I_e at 40 °C	%	115
Active power loss at operating current at 40 °C during operation typical	W	125
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 voltage frequency	%	-10
Relative positive tolerance of the control supply voltage frequency	%	10
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
Mechanical data:		
Size of engine control device		S12
Width	mm	160
Height	mm	230
Depth	mm	278
Mounting type		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
<ul><li>downwards</li></ul>	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		
for main current circuit		busbar connection
<ul> <li>for auxiliary and control current circuit</li> </ul>		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-section for main contacts for box terminal using the front clamping point		
<ul> <li>finely stranded with core end processing</li> </ul>		70 240 mm²
<ul> <li>finely stranded without core end processing</li> </ul>		70 240 mm²
• stranded		95 300 mm²
Type of connectable conductor cross-section for main contacts for box terminal using the back clamping point		
<ul> <li>finely stranded with core end processing</li> </ul>		120 185 mm²
<ul> <li>finely stranded without core end processing</li> </ul>		120 185 mm²
• stranded		120 240 mm²
Type of connectable conductor cross-section for main contacts for box terminal using both clamping points		
<ul> <li>finely stranded with core end processing</li> </ul>		min. 2x 50 mm², max. 2x 185 mm²
<ul> <li>finely stranded without core end processing</li> </ul>		min. 2x 50 mm², max. 2x 185 mm²
• stranded		max. 2x 70 mm², max. 2x 240 mm²
Type of connectable conductor cross-section for AWG conductors for main contacts for box terminal		
<ul> <li>using the back clamping point</li> </ul>		250 500 kcmil
<ul> <li>using the front clamping point</li> </ul>		3/0 600 kcmil
<ul> <li>using both clamping points</li> </ul>		min. 2x 2/0, max. 2x 500 kcmil
Type of connectable conductor cross-section for DIN cable lug for main contacts		

• finely stranded	50 240 mm²
• stranded	70 240 mm²
Type of connectable conductor cross-section 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-section for AWG conductors	
• for main contacts	2/0 500 kcmil
• for auxiliary contacts	2x (24 16)

Ambient 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	EMC	For use in
		hazardous
		locations













Test	Shipping Ap	proval		other	
Certificates					
Special Test Certificate	<b>J</b> Å	[GL®]	Lloyd's Register	Environmental Confirmations	Declaration of Conformity
	DNV	GL	LRS		

UL/CSA ratings:				
yielded mechanical performance [hp] for three-phase				
AC motor				
● at 460/480 V				
<ul> <li>— at standard circuit at 50 °C Rated value</li> </ul>	metric	250		
	hp			
● at 575/600 V				
<ul> <li>— at standard circuit at 50 °C Rated value</li> </ul>	metric	300		
	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

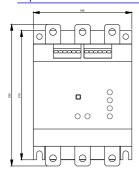
# Industry Mall (Online ordering system) http://www.siemens.com/industrymall

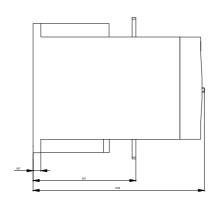
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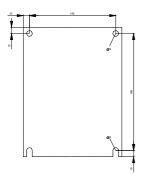
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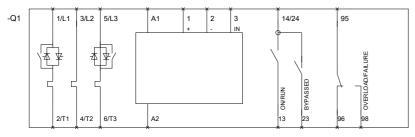
# Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RW40752BB45/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RW40752BB45&lang=en









last modified: 15.01.2015