## **SIEMENS**

Data sheet 3RW40 76-6BB44



SIRIUS SOFT STARTER, S12, 432 A, 250 KW/400 V, 40 DEG., 200-460 V AC, 230 V AC, SCREW 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	432		
● at 50 °C Rated value	Α	385		
● at 60 °C Rated value	Α	335		
Mechanical power output for three-phase motors				
● at 230 V				

<ul> <li>— at standard circuit at 40 °C Rated value</li> </ul>	W	132 000
● at 400 V		
<ul> <li>— at standard circuit at 40 °C Rated value</li> </ul>	W	250 000
yielded mechanical performance [hp] for three-phase	metric	125
AC motor at 200/208 V at standard circuit at 50 °C	hp	
Rated value		
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 in % of I_M	%	20
Adjustable motor current for motor overload	Α	207
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	165
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	%	-15
voltage with AC at 60 Hz		
Relative positive tolerance of the control supply	%	10
voltage with AC at 60 Hz  Display version for fault signal		rod
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
• 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	
for main current circuit	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>	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	5	50 240 mm²
• stranded	7	70 240 mm²
Type of connectable conductor cross-section for auxiliary contacts		
• solid	2	2x (0.5 2.5 mm²)
• finely stranded with core end processing	2	2x (0.5 1.5 mm²)
Type of connectable conductor cross-section for AWG conductors		
• for main contacts	2	2/0 500 kcmil
• for auxiliary contacts	2	2x (20 14)
<ul> <li>for auxiliary contacts finely stranded with core end processing</li> </ul>	2	2x (20 16)

Ambient conditions:				
Ambient temperature				
<ul><li>during operation</li></ul>	°C	-25 <b>+</b> 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>JÅ</b>	GL <sup>®</sup>	Lloyd's Register	Declaration of Conformity	Environmental Confirmations
	DNA	GI	LRS		

JL/CSA ratings:		
yielded mechanical performance [hp] for three-phase		
AC motor		
● at 220/230 V		
— at standard circuit at 50 °C Rated value	metric hp	150
● at 460/480 V		

— at standard circuit at 50 °C Rated value	metric hp	300
Contact rating of the auxiliary contacts acc. to UL		B300 / R300

#### Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

### Industry Mall (Online ordering system)

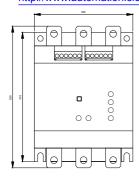
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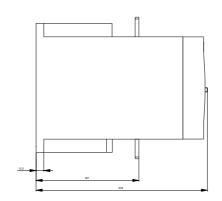
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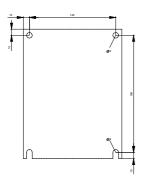
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW40766BB44

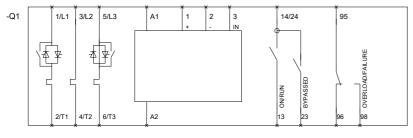
# Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RW40766BB44/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RW40766BB44&lang=en









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