### **SIEMENS**

Data sheet 3RW40 76-2BB34



SIRIUS SOFT STARTER, S12, 385 A, 300 HP/460 V, 50 DEG., 200-460 V AC, 115 V AC, CAGE CLAMP TERMINALS

General technical data:				
product brand name		SIRIUS		
Product feature				
<ul> <li>integrated bypass contact system</li> </ul>		Yes		
<ul><li>Thyristors</li></ul>		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 protection minimum rated value	А	207	
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	0/		
voltage frequency	%	-10	
voltage frequency  Relative positive tolerance of the control supply	%		
voltage frequency  Relative positive tolerance of the control supply voltage frequency		-10	
voltage frequency  Relative positive tolerance of the control supply voltage frequency  Control supply voltage 1 with AC	%	-10 10	
voltage frequency Relative positive tolerance of the control supply voltage frequency Control supply voltage 1 with AC  • at 50 Hz Rated value	% V	-10 10 115	
voltage frequency  Relative positive tolerance of the control supply voltage frequency  Control supply voltage 1 with AC  • at 50 Hz Rated value  • at 60 Hz Rated value	% V V	-10 10 115 115	
voltage frequency Relative positive tolerance of the control supply voltage frequency Control supply voltage 1 with AC  • at 50 Hz Rated value	% V	-10 10 115	
voltage frequency  Relative positive tolerance of the control supply voltage frequency  Control supply voltage 1 with AC  • at 50 Hz Rated value  • at 60 Hz Rated value  Relative negative tolerance of the control supply voltage with AC at 60 Hz  Relative positive tolerance of the control supply	% V V	-10 10 115 115	
voltage frequency  Relative positive tolerance of the control supply voltage frequency  Control supply voltage 1 with AC  • at 50 Hz Rated value  • at 60 Hz Rated value  Relative negative tolerance of the control supply voltage with AC at 60 Hz  Relative positive tolerance of the control supply voltage with AC at 60 Hz	% V V	-10 10 115 115 -15	
voltage frequency  Relative positive tolerance of the control supply voltage frequency  Control supply voltage 1 with AC  • at 50 Hz Rated value  • at 60 Hz Rated value  Relative negative tolerance of the control supply voltage with AC at 60 Hz  Relative positive tolerance of the control supply	% V V	-10 10 115 115 -15	
voltage frequency  Relative positive tolerance of the control supply voltage frequency  Control supply voltage 1 with AC  • at 50 Hz Rated value  • at 60 Hz Rated value  Relative negative tolerance of the control supply voltage with AC at 60 Hz  Relative positive tolerance of the control supply voltage with AC at 60 Hz	% V V	-10 10 115 115 -15	
voltage frequency  Relative positive tolerance of the control supply voltage frequency  Control supply voltage 1 with AC  • at 50 Hz Rated value  • at 60 Hz Rated value  Relative negative tolerance of the control supply voltage with AC at 60 Hz  Relative positive tolerance of the control supply voltage with AC at 60 Hz  Display version for fault signal	% V V	-10 10 115 115 -15	
voltage frequency  Relative positive tolerance of the control supply voltage frequency  Control supply voltage 1 with AC  • at 50 Hz Rated value  • at 60 Hz Rated value  Relative negative tolerance of the control supply voltage with AC at 60 Hz  Relative positive tolerance of the control supply voltage with AC at 60 Hz  Display version for fault signal  Mechanical data:	% V V	-10 10 115 115 -15 10 red	
voltage frequency  Relative positive tolerance of the control supply voltage frequency  Control supply voltage 1 with AC  • at 50 Hz Rated value  • at 60 Hz Rated value  Relative negative tolerance of the control supply voltage with AC at 60 Hz  Relative positive tolerance of the control supply voltage with AC at 60 Hz  Display version for fault signal  Mechanical data:  Size of engine control device	% V V %	-10  10  115  115  -15  10  red	
voltage frequency  Relative positive tolerance of the control supply voltage frequency  Control supply voltage 1 with AC  • at 50 Hz Rated value  • at 60 Hz Rated value  Relative negative tolerance of the control supply voltage with AC at 60 Hz  Relative positive tolerance of the control supply voltage with AC at 60 Hz  Display version for fault signal  Mechanical data:  Size of engine control device  Width	% V V %	-10 10 115 115 -15 10 red  \$12 160	

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>		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 Certificates	Shipping Ap	pproval		other	
Special Test Certificate	<b>JÅ</b>		Lloyd's Register	Declaration of Conformity	Environmental Confirmations
	DNV	GL	LRS		

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

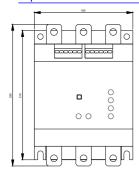
# Industry Mall (Online ordering system) http://www.siemens.com/industrymall

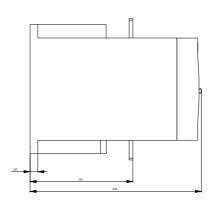
#### Cax online generator

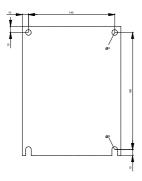
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW40762BB34

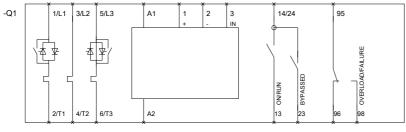
# Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RW40762BB34/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RW40762BB34&lang=en









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