# **SIEMENS**

Data sheet 3RW40 75-6BB34



SIRIUS SOFT STARTER, S12, 315 A, 250 HP/460 V, 50 DEG., 200-460 V AC, 115 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	356		
• at 50 °C Rated value	Α	315		
• at 60 °C Rated value	Α	280		
Mechanical power output for three-phase motors				
● at 230 V				

<ul> <li>— at standard circuit at 40 °C Rated value</li> </ul>	W	110 000
● at 400 V		
<ul> <li>— at standard circuit at 40 °C Rated value</li> </ul>	W	200 000
yielded mechanical performance [hp] for three-phase	metric	100
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	131
Continuous operating current in % of I_e at 40 °C	%	115
Active power loss at operating current at 40 °C during	W	125
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 voltage frequency	%	60 -10
Relative negative tolerance of the control supply voltage frequency  Relative positive tolerance of the control supply		
Relative negative tolerance of the control supply voltage frequency  Relative positive tolerance of the control supply voltage frequency	%	-10
Relative negative tolerance of the control supply voltage frequency  Relative positive tolerance of the control supply voltage frequency  Control supply voltage 1 with AC	%	-10 10
Relative negative tolerance of the control supply 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
Relative negative tolerance of the control supply 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
Relative negative tolerance of the control supply 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
Relative negative tolerance of the control supply 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
Relative negative tolerance of the control supply 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 V	-10 10 115 115 -15
Relative negative tolerance of the control supply 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 V	-10 10 115 115 -15
Relative negative tolerance of the control supply 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 V	-10 10 115 115 -15
Relative negative tolerance of the control supply 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 V	-10 10 115 115 -15
Relative negative tolerance of the control supply 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 V	-10 10 115 115 -15 10 red
Relative negative tolerance of the control supply 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
Relative negative tolerance of the control supply 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
<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	bu	usbar connection
<ul> <li>for auxiliary and control current circuit</li> </ul>	so	crew-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	0 240 mm²
<ul> <li>finely stranded without core end processing</li> </ul>	70	0 240 mm²
• stranded	95	5 300 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>	12	20 185 mm²
<ul> <li>finely stranded without core end processing</li> </ul>	12	20 185 mm²
• stranded	12	20 240 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>	m	nin. 2x 50 mm², max. 2x 185 mm²
• finely stranded without core end processing	m	nin. 2x 50 mm², max. 2x 185 mm²
• stranded	m	nax. 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>	25	50 500 kcmil
<ul><li>using the front clamping point</li></ul>	3/	/0 600 kcmil
<ul> <li>using both clamping points</li> </ul>	m	nin. 2x 2/0, max. 2x 500 kcmil
Type of connectable conductor cross-section for DIN cable lug for main contacts		

70 240 mm²
2x (0.5 2.5 mm²)
2x (0.5 1.5 mm²)
2/0 500 kcmil
2x (20 14)
2x (20 16)

Ambient conditions:				
Ambient temperature				
<ul><li>during operation</li></ul>	°C	-25 <b>+</b> 60		
during storage	°C	-40 <b>+</b> 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	Environmental Confirmations	Declaration of Conformity
	DNV	GL	LRS		

UL/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	125
● at 460/480 V		

— at standard circuit at 50 °C Rated value	metric hp	250
Contact rating of the auxiliary contacts acc. to UL		B300 / R300

#### Further informatior

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

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

## Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

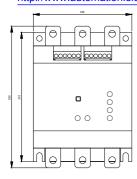
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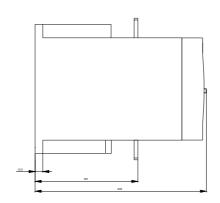
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW40756BB34

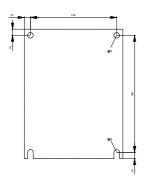
### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

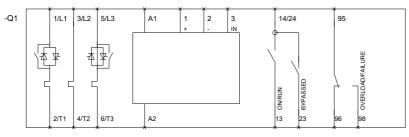
http://support.automation.siemens.com/WW/view/en/3RW40756BB34/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attlD9=3RW40756BB34&lang=en









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