# **SIEMENS**

Data sheet 3RW40 75-6BB44



SIRIUS SOFT STARTER, S12, 356 A, 200 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		
<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	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				

- at standard circuit at 40 °C Rated value  • at 400 V  — at standard circuit at 40 °C Rated value  yielded mechanical performance [hp] for three-phase AC motor at 200/208 V at standard circuit at 50 °C Rated value  Operating frequency Rated value Relative positive tolerance of the operating frequency Relative positive tolerance of the operating frequency Relative positive tolerance of the operating voltage at standard circuit Rated value Relative positive tolerance of the operating voltage at standard circuit Relative positive tolerance of the operating voltage at standard circuit Relative positive tolerance of the operating voltage at standard circuit Minimum load in % of LM Adjustable motor current for motor overload protection minimum rated value Continuous operating current in % of Le at 40 °C Active power loss at operating current at 40 °C during operation typical  Control supply voltage frequency 1 Rated value Relative negative tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Relative positive tolerance of the control supply voltage frequency Relative positive tolerance			
	<ul> <li>— at standard circuit at 40 °C Rated value</li> </ul>	W	110 000
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Relative negative tolerance of the operating voltage at standard circuit  Relative positive tolerance of the operating voltage at standard circuit  Minimum load in % of LM  Adjustable motor current for motor overload protection minimum rated value  Continuous operating current in % of Le at 40 °C  Continuous operating current at 40 °C during operation typical  Control electronics:  Type of voltage of the control supply voltage  Control supply voltage frequency 1 Rated value  Relative negative tolerance of the control supply voltage frequency  Relative negative tolerance of the control supply voltage frequency  Relative positive tolerance of the control supply voltage frequency  Relative positive tolerance of the control supply voltage frequency  Relative positive tolerance of the control supply voltage frequency  Relative positive tolerance of the control supply voltage frequency  Relative negative tolerance of the control supply voltage frequency  Relative positive tolerance of the control supply voltage frequency  Relative negative tolerance of the control supply voltage frequency  **V 230  **a t50 Hz Rated value  **V 230  **a t60 Hz Rated value  **V 230  **V 230  **Relative negative tolerance of the control supply voltage with AC at 60 Hz  Relative negative tolerance of the control supply voltage with AC at 60 Hz  Relative negative tolerance of the control supply voltage with AC at 60 Hz  **Display version for fault signal  **Vechanical data:**  Size of engine control device  Width  mm 160  Height  mm 230  positive tolerance of the control supply mm 278	Relative positive tolerance of the operating frequency	%	10
at standard circuit  Relative positive tolerance of the operating voltage at standard circuit  Minimum load in % of LM  Adjustable motor current for motor overload protection minimum rated value  Continuous operating current in % of Le at 40 °C  Active power loss at operating current at 40 °C during operation typical  Control electronics:  Type of voltage of the control supply voltage  Control supply voltage frequency 1 Rated value  Relative negative tolerance of the control supply voltage frequency  Relative positive tolerance of the control supply voltage frequency  Relative positive tolerance of the control supply voltage frequency  Relative positive tolerance of the control supply voltage frequency  Relative positive tolerance of the control supply voltage frequency  Relative positive tolerance of the control supply voltage frequency  Relative positive tolerance of the control supply voltage frequency  Relative negative tolerance of the control supply voltage with AC  • at 50 Hz Rated value  • at 60 Hz Rated value  • a	Operating voltage at standard circuit Rated value	V	200 460
standard circuit  Minimum load in % of LM  Adjustable motor current for motor overload protection minimum rated value  Continuous operating current in % of Le at 40 °C  Active power loss at operating current at 40 °C during operation typical  Control electronics:  Type of voltage of the control supply voltage  Control supply voltage frequency 1 Rated value  Hz  60  Control supply voltage frequency 2 Rated value  Hz  60  Relative negative tolerance of the control supply voltage frequency  Control supply voltage i with AC  • at 50 Hz Rated value  • at 60 Hz  Display version for fault signal  red  Mechanical data:  Size of engine control device  Width  mm  160  Height  mm  230  Depth		%	-15
Adjustable motor current for motor overload protection minimum rated value  Continuous operating current in % of Le at 40 °C % 115  Active power loss at operating current at 40 °C during 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  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  voltage frequency  Relative negative tolerance of the control supply voltage frequency  Control supply voltage 1 with AC  • at 50 Hz Rated value  v 230  Relative negative tolerance of the control supply voltage with AC at 60 Hz  Relative negative tolerance of the control supply voltage with AC at 60 Hz  Relative negative tolerance of the control supply voltage with AC at 60 Hz  Relative negative tolerance of the control supply voltage with AC at 60 Hz  Display version for fault signal  mm 160  Height mm 230  Depth mm 278		%	10
protection minimum rated value  Continuous operating current in % of Le 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  Relative positive tolerance of the control supply 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  Relative positive tolerance of the control supply voltage in the control supply voltage in the control supply voltage in the control supply in the control supply voltage with AC at 60 Hz  Relative positive tolerance of the control supply voltage with AC at 60 Hz  Relative positive tolerance of the control supply voltage with AC at 60 Hz  Relative positive tolerance of the control supply voltage with AC at 60 Hz  Size of engine control device S12  Width mm 160  Height mm 230  Depth mm 278	Minimum load in % of I_M	%	20
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Control electronics:  Type of voltage of the control supply voltage Control supply voltage frequency 1 Rated value Fig. 10	Continuous operating current in % of I_e at 40 °C	%	115
Control electronics:  Type of voltage of the control supply voltage Control supply voltage frequency 1 Rated value Control supply voltage frequency 2 Rated value 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 230 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 Relative positive tolerance of the control supply voltage with AC at 60 Hz  Relative positive tolerance of the control supply voltage with AC at 60 Hz  Size of engine control device  Width Height mm 230 Depth mm 278	Active power loss at operating current at 40 °C during	W	125
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Type of voltage of the control supply voltage  Control supply voltage frequency 1 Rated value  Relative negative tolerance of the control supply voltage frequency  Relative positive 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  voltage with AC at 60 Hz  Relative positive tolerance of the control supply voltage with AC at 60 Hz  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  In mm  Median	Control alastronias		
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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 230  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  mm 160  Height  mm 230  Depth		70	
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<ul> <li>at 50 Hz Rated value</li> <li>at 60 Hz Rated value</li> <li>V</li> <li>Relative negative tolerance of the control supply voltage with AC at 60 Hz</li> <li>Relative positive tolerance of the control supply voltage with AC at 60 Hz</li> <li>Display version for fault signal</li> <li>Mechanical data:</li> <li>Size of engine control device</li> <li>Width</li> <li>Mm</li> <li>160</li> <li>Height</li> <li>Depth</li> <li>mm</li> <li>278</li> </ul>			
● 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  Fight  Men  Mechanical  Mec	Control supply voltage 1 with AC		
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  mm  160  Height  Depth  mm  278	• at 50 Hz Rated value	V	230
red  Mechanical data:  Size of engine control device  Width Height  Depth  N 10  10  10  10  10  10  10  10  10	• at 60 Hz Rated value	V	230
red  Mechanical data:  Size of engine control device  Width Height  Depth  N 10  10  10  10  10  10  10  10  10	Relative negative tolerance of the control supply	%	-15
voltage with AC at 60 Hz  Display version for fault signal  Mechanical data:  Size of engine control device  Width  mm  160  Height  mm  230  Depth  mm  278			
Display version for fault signal  Mechanical data:  Size of engine control device  Width  mm  160  Height  mm  230  Depth  mm  278	Relative positive tolerance of the control supply	%	10
Mechanical data:  Size of engine control device  Width  mm  160  Height  mm  230  Depth  mm  278	voltage with AC at 60 Hz		
Size of engine control device         S12           Width         mm         160           Height         mm         230           Depth         mm         278	Display version for fault signal		red
Width         mm         160           Height         mm         230           Depth         mm         278	Mechanical data:		
Height         mm         230           Depth         mm         278			
Depth mm 278		mm	
		mm	230
Mounting type screw fixing	•	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>	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 Certificates	Shipping Ap	pproval		other	
Special Test Certificate	<b>J</b> Å		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		
— 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

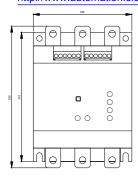
#### Cax online generator

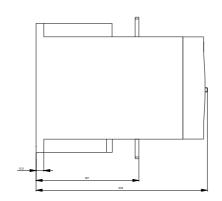
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW40756BB44

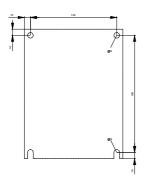
## Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

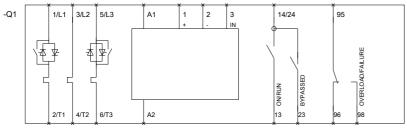
http://support.automation.siemens.com/WW/view/en/3RW40756BB44/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attlD9=3RW40756BB44&lang=en









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