SIEMENS

Data sheet 3RW40 76-2BB44



SIRIUS SOFT STARTER, S12, 432 A, 250 KW/400 V, 40 DEG., 200-460 V AC, 230 V AC, CAGE CLAMP TERMINALS

General technical data:				
product brand name		SIRIUS		
Product feature				
 integrated bypass contact system 		Yes		
Thyristors		Yes		
Product function				
 Intrinsic device protection 		Yes		
 motor overload protection 		Yes		
 Evaluation of thermistor motor protection 		No		
External reset		Yes		
 Adjustable current limitation 		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			

 — at standard circuit at 40 °C Rated value 	W	132 000	
● at 400 V			
 — at standard circuit at 40 °C Rated value 	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
 for auxiliary and control current circuit 		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		
 finely stranded with core end processing 		70 240 mm²
 finely stranded without core end processing 		70 240 mm²
• stranded		95 300 mm²
Type of connectable conductor cross-section for main contacts for box terminal using the back clamping point		
 finely stranded with core end processing 		120 185 mm²
 finely stranded without core end processing 		120 185 mm²
• stranded		120 240 mm²
Type of connectable conductor cross-section for main contacts for box terminal using both clamping points		
 finely stranded with core end processing 		min. 2x 50 mm², max. 2x 185 mm²
 finely stranded without core end processing 		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		
 using the back clamping point 		250 500 kcmil
 using the front clamping point 		3/0 600 kcmil
 using both clamping points 		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				
during operation	°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	JÅ		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	150
	hp	
● at 460/480 V		
 at standard circuit at 50 °C Rated value 	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

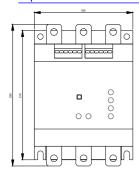
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

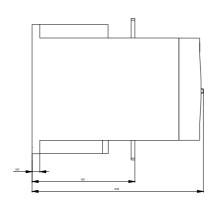
Cax online generator

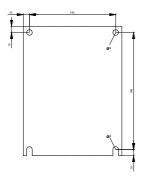
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW40762BB44

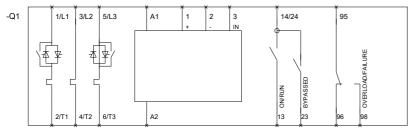
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RW40762BB44/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RW40762BB44&lang=en









last modified: 15.01.2015