SIEMENS

Data sheet 3RW40 38-2BB04



SIRIUS SOFT STARTER, S2, 72A, 37KW/400V, 40 DEGR., AC 200-480V, AC/DC 24V, SPRING-LOADED 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	G
according to IEC 204-2 acc. to IEC 750	

Power Electronics:		
Product designation		soft starters for standard applications
Operating current		
• at 40 °C Rated value	Α	72
• at 50 °C Rated value	Α	62
• at 60 °C Rated value	Α	60
Mechanical power output for three-phase motors		
● at 230 V		

 at standard circuit at 40 °C Rated value 	W	22 000
● at 400 V		
— at standard circuit at 40 °C Rated value	W	37 000
yielded mechanical performance [hp] for three-phase	metric	20
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	%	-10
frequency		
Relative positive tolerance of the operating frequency	%	10
Operating voltage at standard circuit Rated value	V	200 480
Relative negative tolerance of the operating voltage	%	-15
at standard circuit		
Relative positive tolerance of the operating voltage at	%	10
standard circuit		
Minimum load in % of I_M	%	20
Adjustable motor current for motor overload	Α	35
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	15
operation typical		
Control electronics:		

Control electronics:		
Type of voltage of the control supply voltage		AC/DC
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	%	-10
Relative positive tolerance of the control supply voltage frequency	%	10
Control supply voltage 1 with AC		
● at 50 Hz Rated value	V	24
• at 60 Hz Rated value	V	24
Relative negative tolerance of the control supply voltage with AC at 60 Hz	%	-20
Relative positive tolerance of the control supply voltage with AC at 60 Hz	%	20
Control supply voltage 1 for DC Rated value	V	24
Relative negative tolerance of the control supply voltage for DC	%	-20
Relative positive tolerance of the control supply voltage for DC	%	20
Display version for fault signal		red

Mechanical data:		
Size of engine control device	S2	

Width	mm	55
Height	mm	160
Depth	mm	170
Mounting type		screw and snap-on mounting
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	60
• at the side	mm	30
• downwards	mm	40
Installation altitude at height above sea level	m	5 000
Cable length maximum	m	300
Number of poles for main current circuit		3
Type of electrical connection		
Type of electrical confinection		
for main current circuit		screw-type terminals
for main current circuit for auxiliary and control current circuit		screw-type terminals spring-loaded terminals
• for auxiliary and control current circuit		spring-loaded terminals
for auxiliary and control current circuit Number of NC contacts for auxiliary contacts		spring-loaded terminals
for auxiliary and control current circuit Number of NC contacts for auxiliary contacts Number of NO contacts for auxiliary contacts		spring-loaded terminals 0 2
for auxiliary and control current circuit Number of NC contacts for auxiliary contacts Number of NO contacts for auxiliary contacts Number of CO contacts for auxiliary contacts Type of connectable conductor cross-section for main contacts for box terminal using the front		spring-loaded terminals 0 2
for auxiliary and control current circuit Number of NC contacts for auxiliary contacts Number of NO contacts for auxiliary contacts Number of CO contacts for auxiliary contacts Type of connectable conductor cross-section for main contacts for box terminal using the front clamping point		spring-loaded terminals 0 2 1
for auxiliary and control current circuit Number of NC contacts for auxiliary contacts Number of NO contacts for auxiliary contacts Number of CO contacts for auxiliary contacts Type of connectable conductor cross-section for main contacts for box terminal using the front clamping point solid		spring-loaded terminals 0 2 1 2x (1.5 16 mm²)
for auxiliary and control current circuit Number of NC contacts for auxiliary contacts Number of NO contacts for auxiliary contacts Number of CO contacts for auxiliary contacts Type of connectable conductor cross-section for main contacts for box terminal using the front clamping point solid finely stranded with core end processing		spring-loaded terminals 0 2 1 2x (1.5 16 mm²) 0.75 25 mm²
for auxiliary and control current circuit Number of NC contacts for auxiliary contacts Number of NO contacts for auxiliary contacts Number of CO contacts for auxiliary contacts Type of connectable conductor cross-section for main contacts for box terminal using the front clamping point solid finely stranded with core end processing stranded Type of connectable conductor cross-section for main contacts for box terminal using the back		spring-loaded terminals 0 2 1 2x (1.5 16 mm²) 0.75 25 mm²
for auxiliary and control current circuit Number of NC contacts for auxiliary contacts Number of NO contacts for auxiliary contacts Number of CO contacts for auxiliary contacts Type of connectable conductor cross-section for main contacts for box terminal using the front clamping point		spring-loaded terminals 0 2 1 2x (1.5 16 mm²) 0.75 25 mm² 0.75 35 mm²

points

• solid

stranded

Type of connectable conductor cross-section for main contacts for box terminal using both clamping

• finely stranded with core end processing

Type of connectable conductor cross-section for AWG conductors for main contacts for box terminal

• using the back clamping point

16 ... 2

2x (1.5 ... 16 mm²)

2x (1.5 ... 16 mm²)

2x (1.5 ... 25 mm²)

using the front clamping point	18 2
 using both clamping points 	2x (16 2)
Type of connectable conductor cross-section for auxiliary contacts	
• solid	2x (0.25 2.5 mm²)
• finely stranded with core end processing	2x (0.25 1.5 mm²)
Type of connectable conductor cross-section for AWG conductors	
• for auxiliary contacts	2x (24 14)

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 Approval

Type Test
Certificates/Test
Report

Special Test Certificate





 GL



LRS



other

Environmental Declaration of Confirmations Conformity

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	20

• at 460/480 V

- at standard circuit at 50 °C Rated value

metric hp	40
	B300 / R300

Contact rating of the auxiliary contacts acc. to UL

Further information

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

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

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

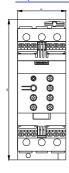
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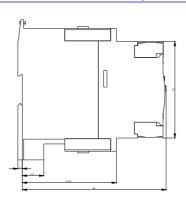
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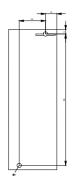
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

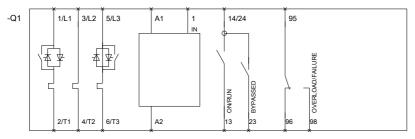
http://support.automation.siemens.com/WW/view/en/3RW40382BB04/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RW40382BB04&lang=en









last modified: 15.01.2015