SIEMENS

Data sheet 3RW40 38-1TB04



SIRIUS SOFT STARTER, S2, 72A, 37KW/400V, 40 DEGR., AC 200-480V, AC/DC 24V, SCREW TERMINALS, THERMISTOR MOTOR PROTECTION

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 		Yes
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	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:		
Time of voltage of the control complesselters		A O / D O

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
Connections/ Terminals:		
Type of electrical connection		
• for main current circuit		screw-type terminals
 for auxiliary and control current circuit 		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		
• solid		2x (1.5 16 mm²)
• finely stranded with core end processing		0.75 25 mm²
• stranded		0.75 35 mm²
Type of connectable conductor cross-section for main contacts for box terminal using the back clamping point		
• solid		2x (1.5 16 mm²)
• finely stranded with core end processing		1.5 25 mm²
• stranded		1.5 35 mm²
Type of connectable conductor cross-section for main contacts for box terminal using both clamping		

points

• solid

stranded

• 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 (0.5 2.5 mm²)
• finely stranded with core end processing	2x (0.5 1.5 mm²)
Type of connectable conductor cross-section for AWG conductors	
• for auxiliary contacts	2x (20 14)
 for auxiliary contacts finely stranded with core end processing 	2x (20 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 Approval

Type Test
Certificates/Test
Report

Special Test Certificate





GL





other

EnvironmentalDeclaration ofConfirmationsConformity

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	40
	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

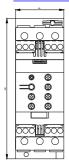
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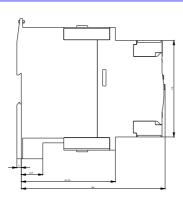
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW40381TB04

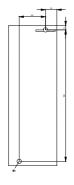
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

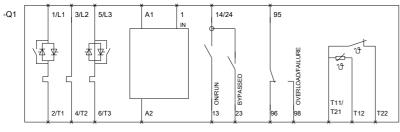
http://support.automation.siemens.com/WW/view/en/3RW40381TB04/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RW40381TB04&lang=en









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