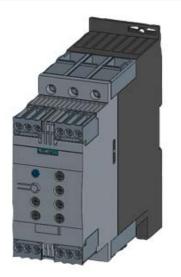
SIEMENS

Data sheet

3RW40 38-1BB05



SIRIUS SOFT STARTER, S2, 72A, 45KW/500V, 40 DEGR., AC 400-600V, AC/DC 24V, SCREW TERMINALS

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:				
	soft starters for standard applications			
А	72			
А	62			
А	60			
	A			

 — at standard circuit at 40 °C Rated value 	W	37 000
• at 500 V		
— at standard circuit at 40 °C Rated value	W	45 000
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	400 600
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	А	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:		
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	%	-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	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		2x (1.5 16 mm²)
 finely stranded with core end processing 		2x (1.5 16 mm²)
• stranded		2x (1.5 25 mm²)
Type of connectable conductor cross-section for AWG conductors for main contacts for box terminal		
 using the back clamping point 		16 2
 using the front clamping point 		18 2
 using both clamping points 		2x (16 2)

Type of connectable auxiliary contacts	conductor cross-se	ction for				
• solid			2x (0.5 2.	5 mm²)		
 finely stranded with core end processing 			2x (0.5 1.5 mm²)			
Type of connectable	conductor cross-se	ction for				
 for auxiliary cor 	ntacts			2x (20 14)	
 for auxiliary cor end processing 	ntacts finely strande	d with core		2x (20 16)	
mbient conditions:						
Ambient temperature)					
 during operatio 	n		°C	-25 +60		
 during storage 			°C	-40 +80		
Derating temperature)		°C	40		
Protection class IP				IP00		
ertificates/ approva	als:					
General Product	Approval				EMC	For use in hazardous locations
	CSA		E	AC	С-тіск	ATEX
Test Certificates		Shipping /	Approval			
<u>Type Test</u> Certificates/Test <u>Report</u>	Special Test Certificate	ĴÅ DNV DNV		GL GL	Lloyd's Register Lrs	PRS
other						

UL/CSA ratings:		
yielded mechanical performance [hp] for three-phase		
AC motor		
● at 460/480 V		
— at standard circuit at 50 °C Rated value	metric hp	40

 at 575/600 V — at standard circuit at 50 °C Rated value 	metric hp	60
Contact rating of the auxiliary contacts acc. to UL		B300 / R300

urther 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=3RW40381BB05

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RW40381BB05/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RW40381BB05&lang=en

