SIEMENS

Data sheet

3RW4038-2TB05



SIRIUS soft starter S2 72 A, 45 kW/500 V, 40 °C 400-600 V AC, 24 V AC/DC spring-type 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		
insulation voltage rated value	V	600		
degree of pollution		3, acc. to IEC 60947-4-2		
reference code acc. to DIN EN 61346-2		Q		
reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		G		
Power Electronics				
product designation		Soft starter		
operational current				
 at 40 °C rated value 	А	72		
 at 50 °C rated value 	А	62		
• at 60 °C rated value	А	60		
yielded mechanical performance for 3-phase motors				
• at 400 V				
 — 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 frequency	%	-10		
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 [%]	%	20		

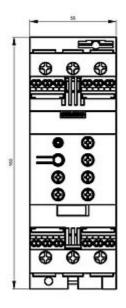
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adjustable motor current for motor overload protection minimum rated value	A	35
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	15
Control circuit/ Control		
type of voltage 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 at AC	-	
• at 50 Hz rated value	V	24
• at 60 Hz rated value	V	24
relative negative tolerance of the control supply voltage at AC at 50 Hz	%	-20
relative positive tolerance of the control supply voltage at AC at 50 Hz	%	20
relative negative tolerance of the control supply voltage at AC at 60 Hz	%	-20
relative positive tolerance of the control supply voltage at AC at 60 Hz	%	20
control supply voltage 1 at DC rated value	V	24
relative negative tolerance of the control supply voltage at DC	%	-20
relative positive tolerance of the control supply voltage at 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
fastening method		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
wire 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 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-sections for main contacts for box terminal using the front clamping point • solid		2x (1.5 16 mm²)
 finely stranded with core end processing stranded 		0.75 25 mm² 0.75 35 mm²
type of connectable conductor cross-sections for		
main contacts for box terminal using the back		

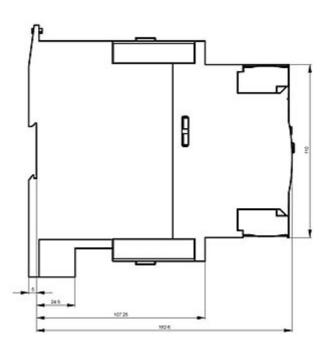
	_			
clamping point		0 (4 5 4 5	2)	
solid		2x (1.5 16 r		
 finely stranded with core end processing stranded 		1.5 25 mm ²		
• stranded type of connectable conductor cross-sections for		1.5 35 mm²		
main contacts for box terminal using both clamping points				
• solid		2x (1.5 16 r	mm²)	
 finely stranded with core end processing 		2x (1.5 16 r		
stranded	_	2x (1.5 25 r	nm²)	
type of connectable conductor cross-sections at AWG cables 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 conductor cross-sections for auxiliary contacts				
• solid		2x (0.25 2.5	5 mm²)	
 finely stranded with core end processing 		2x (0.25 2.5 2x (0.25 1.5	· · ·	
type of connectable conductor cross-sections at AWG		2. (0.20 1.0		
cables				
 for auxiliary contacts 		2x (24 14)		
Ambient conditions				
installation altitude at height above sea level	m	5 000		
environmental category				
 during transport acc. to IEC 60721 		2K2, 2C1, 2S	1, 2M2 (max. fall heig	ht 0.3 m)
 during storage acc. to IEC 60721 			asional condensation	
• during operation acc. to IEC 60721		3K6 (no forma	ist not get inside the c ation of ice, no conder ind must not get into t	nsation), 3C3 (no salt
ambient temperature		mist), 332 (3a	ind must not get into t	
during operation	°C	-25 +60		
during operation orage	°C	-40 +80		
derating temperature	0°	40		
protection class IP on the front acc. to IEC 60529	_	IP20		
touch protection on the front acc. to IEC 60529	_	finger-safe, fo	r vertical contact from	the front
Certificates/ approvals		0 /		
				For use in hazard-
General Product Approval			EMC	ous locations
		rnr	A	
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CSA CCC UL		LIIL	RCM	ATEX
Declaration of Conformity Test Certificates		Marine / Shipping		
Miscellaneous Special Test Certific- Type Test C ate ates/Test F		Llovd's	(A)	And and a second se
		Register		DNV-GL
		LRS	PRS	DAVOLUDINA
other Railway				
Confirmation Vibration and Shock				

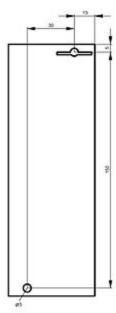
UL/CSA ratings				
yielded mechanical performance [hp] for 3-phase AC motor				
● at 460/480 V				
— at standard circuit at 50 °C rated value	hp	40		
● at 575/600 V				
- at standard circuit at 50 °C rated value	hp	60		
contact rating of auxiliary contacts according to UL		B300 / R300		
Further information				
Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917				
Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10				
Industry Mall (Online ordering system)				
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4038-2TB05				
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4038-2TB05				
Sonvice8 Support (Manuale, Cortificates, Characteristics, EAOs,)				

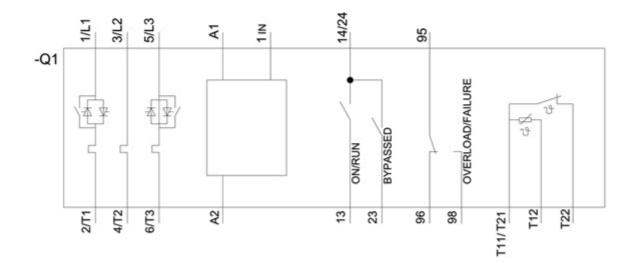
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4038-2TB05

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4038-2TB05&lang=en









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