SIEMENS

Data sheet

3RW4037-1TB05



SIRIUS soft starter S2 63 A, 37 kW/500 V, 40 $^\circ\text{C}$ 400-600 V AC, 24 V AC/DC Screw terminals Thermistor motor protection

product brand name		SIRIUS
product designation		Soft starter
product designation		
integrated bypass contact system		Yes
• thyristors		Yes
product function		103
intrinsic device protection		Yes
motor overload protection		Yes
evaluation of thermistor motor protection		Yes
external reset		Yes
adjustable current limitation		Yes
aujustable current initiation inside-delta circuit		No
product component motor brake output		No
• • •	V	600
insulation voltage rated value degree of pollution	V	3, acc. to IEC 60947-4-2
	V	1 600
blocking voltage of the thyristor maximum	V	Q
reference code according to EN 61346-2		G
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750		6
Power Electronics		
operational current		
• at 40 °C rated value	А	63
• at 50 °C rated value	А	58
• at 60 °C rated value	А	53
yielded mechanical performance for 3-phase motors		
• at 400 V		
— at standard circuit at 40 °C rated value	kW	30
● at 500 V		
— at standard circuit at 40 °C rated value	kW	37
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
adjustable motor current for motor overload protection minimum rated value	А	26

continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current 1% of leg at 40 °C	% W	12
operation typical	VV	12
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	%	-10
frequency	0/	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	%	-15
relative positive tolerance of the control supply voltage at AC at 50 Hz	%	10
relative negative tolerance of the control supply voltage at AC at 60 Hz	%	-15
relative positive tolerance of the control supply voltage at AC at 60 Hz	%	10
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 		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-sections for main contacts for box terminal using the front clamping point		
and a second sec		
• solid		
		2x (1.5 16 mm²) 0.75 25 mm²
 solid finely stranded with core end processing stranded 		2x (1.5 16 mm²)
• finely stranded with core end processing		2x (1.5 16 mm²) 0.75 25 mm²
 finely stranded with core end processing stranded type of connectable conductor cross-sections for main 		2x (1.5 16 mm²) 0.75 25 mm²
finely stranded with core end processing stranded type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		2x (1.5 16 mm²) 0.75 25 mm² 0.75 35 mm²
 finely stranded with core end processing stranded type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point solid 		2x (1.5 16 mm²) 0.75 25 mm² 0.75 35 mm² 2x (1.5 16 mm²)
 finely stranded with core end processing stranded type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point solid finely stranded with core end processing 		2x (1.5 16 mm ²) 0.75 25 mm ² 0.75 35 mm ² 2x (1.5 16 mm ²) 1.5 25 mm ²
 finely stranded with core end processing stranded type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point solid finely stranded with core end processing stranded type of connectable conductor cross-sections for main 		2x (1.5 16 mm ²) 0.75 25 mm ² 0.75 35 mm ² 2x (1.5 16 mm ²) 1.5 25 mm ²

 stranded 			2x (1.5 25	5 mm²)			
type of connectable of cables for main contained	conductor cross-sections acts for box terminal	for AWG					
 using the back of 	lamping point		16 2				
 using the front c 	lamping point		18 2	18 2			
 using both clam 			2x (16 2)				
	conductor cross-sections	for auxiliary					
			2× (0 E 2)	E mm ²)			
• solid				2x (0.5 2.5 mm ²)			
,	 finely stranded with core end processing 			2x (0.5 1.5 mm²)			
type of connectable of cables	conductor cross-sections	for AWG					
 for auxiliary cont 	tacts		2x (20 14)				
 for auxiliary cont processing 	tacts finely stranded with co	re end	2x (20 16)				
Ambient conditions							
installation altitude a	t height above sea level		m 5 000				
environmental catego							
-	according to IEC 60721		2K2_2C1_2	S1, 2M2 (max. fall height 0.3	m)		
o .	according to IEC 60721						
	-		(sand must r	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4			
	according to IEC 60721			3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6			
ambient temperature							
 during operation 	I		C -25 +60				
 during storage 		c	C -40 +80				
derating temperature		c	C 40				
protection class IP or	n the front according to IE	C 60529	IP20				
touch protection on t	he front according to IEC	60529	finger-safe, f	for vertical contact from the fr	ont		
UL/CSA ratings							
	erformance [hp] for 3-pha	se AC motor					
• at 460/480 V	••••••••••••••••••••••••••••••••••••••						
	d circuit at 50 °C rated value		40 au				
			ip 40				
• at 575/600 V							
	d circuit at 50 °C rated value		ip 50				
-	liary contacts according t	o UL	B300 / R300)			
Approvals Certificates			_	5 10/	_		
General Product App	roval			EMV			
<u>Confirmation</u>			ERC	RCM	<u>KC</u>		
For use in hazard- ous locations	Test Certificates		Marine / Shipping				
K ATEX	<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report		Lloyd's Register us	PRS		
other	Railway		Environment				
<u>Confirmation</u>	<u>Special Test Certific-</u> <u>ate</u>	<u>Confirmation</u>	EPD	Environmental Con- firmations			
Further information							
Simulation Tool for S	oft Starters (STS)						
https://support.industry	siemens.com/cs/ww/en/vie	<u>w/101494917</u>					
Information on the pa	ckaging						

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RW4037-1TB05

Cax online generator

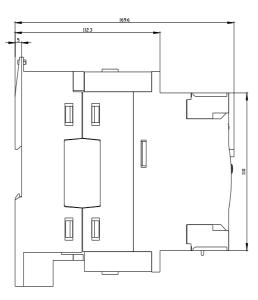
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4037-1TB05

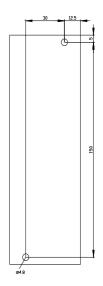
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

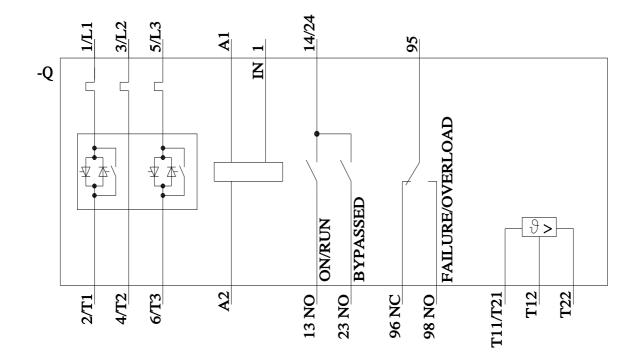
https://suppo rt.industry.siemens.com/cs/ww/en/ps/3RW4037-1TB05

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4037-1TB05&lang=en

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