## **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

Figure similar

General technical data	General technical data			
product brand name		SIRIUS		
product feature				
<ul> <li>integrated bypass contact system</li> </ul>		Yes		
• thyristors		Yes		
product function				
<ul> <li>intrinsic device protection</li> </ul>		Yes		
<ul> <li>motor overload protection</li> </ul>		Yes		
<ul> <li>evaluation of thermistor motor protection</li> </ul>		Yes		
external reset		Yes		
<ul> <li>adjustable current limitation</li> </ul>		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 according to EN 61346-2		Q		
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750		G		
Power Electronics				
product designation		Soft starter		
operational current				
at 40 °C rated value	Α	63		
• at 50 °C rated value	Α	58		
• at 60 °C rated value	Α	53		
yielded mechanical performance for 3-phase motors				
• at 400 V				
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	kW	30		
● at 500 V				
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	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	Α	26		
continuous operating current [% of le] at 40 °C	%	115		

power loss [W] at operational current at 40 °C during operation typical	W	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 frequency	%	-10
relative positive tolerance of the control supply	%	10
voltage frequency		
control supply voltage 1 at AC		
<ul> <li>at 50 Hz rated value</li> </ul>	V	24
<ul> <li>at 60 Hz rated value</li> </ul>	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	%	-15
voltage at AC at 60 Hz relative positive tolerance of the control supply	%	10
voltage at AC at 60 Hz 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		
		S2
size of engine control device		
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		300
•	m	3
number of poles for main current circuit	_	3
Connections/ Terminals		
type of electrical connection		
<ul> <li>for main current circuit</li> </ul>		screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>		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		
• solid		2x (1.5 16 mm²)
finely stranded with core end processing		0.75 25 mm <sup>2</sup>
stranded     stranded		0.75 35 mm <sup>2</sup>
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		0.70 00 11111
• solid		2x (1.5 16 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		1.5 25 mm²
• stranded		1.5 35 mm²
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		
		2x (1.5 16 mm²)
• solid		

<ul><li>finely stranded with core end processing</li><li>stranded</li></ul>		2x (1.5 16 mm²) 2x (1.5 25 mm²)
type of connectable conductor cross-sections at AWG		27 (1.5 25 11111 )
cables for main contacts for box terminal		
<ul> <li>using the back clamping point</li> </ul>		16 2
<ul><li>using the front clamping point</li></ul>		18 2
<ul> <li>using both clamping points</li> </ul>		2x (16 2)
type of connectable conductor cross-sections for auxiliary contacts		
• solid		2x (0.5 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 1.5 mm²)
type of connectable conductor cross-sections at AWG cables		
<ul> <li>for auxiliary contacts</li> </ul>		2x (20 14)
<ul> <li>for auxiliary contacts finely stranded with core end processing</li> </ul>		2x (20 16)
Ambient conditions		
installation altitude at height above sea level	m	5 000
environmental category		
<ul> <li>during transport according to IEC 60721</li> </ul>		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
<ul> <li>during storage according to IEC 60721</li> </ul>		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
<ul> <li>during operation according to IEC 60721</li> </ul>		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
ambient temperature		
<ul><li>during operation</li></ul>	°C	-25 +60
<ul><li>during storage</li></ul>	°C	-40 +80
derating temperature	°C	40
protection class IP on the front according to IEC 60529		IP20
touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front
Certificates/ approvals		
General Product Approval		EMC

**®** 

Confirmation









Test Certificates Marine / Shipping other

Special Test Certificate

Type Test Certificates/Test Report







Confirmation

Railway

Vibration and Shock Confirmation

UL/CSA ratings		
yielded mechanical performance [hp] for 3-phase AC motor		
• at 460/480 V		
<ul> <li>— at standard circuit at 50 °C rated value</li> </ul>	hp	40
• at 575/600 V		
<ul> <li>— at standard circuit at 50 °C rated value</li> </ul>	hp	50
contact rating of auxiliary contacts according to UL		B300 / R300

Simulation Tool for Soft Starters (STS)

https://support.industry.siemens.com/cs/ww/en/view/101494917

Information on the packaging

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

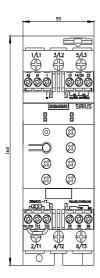
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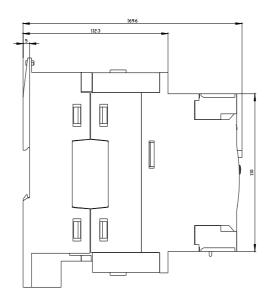
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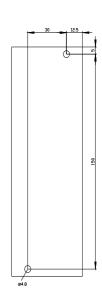
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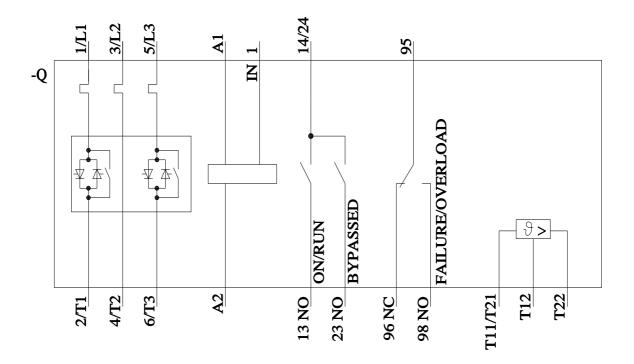
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax">http://www.automation.siemens.com/bilddb/cax</a> de.aspx?mlfb=3RW4037-1TB05&lang=en









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