## SIEMENS

## Data sheet

## 3RW4024-1TB04

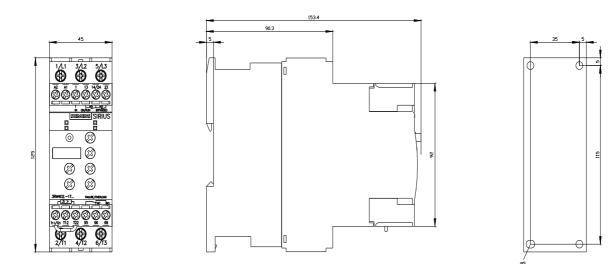


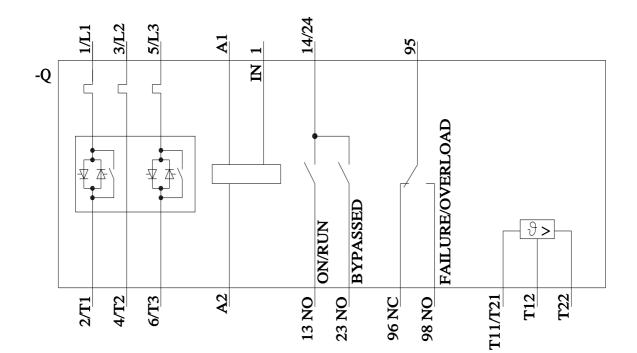
SIRIUS soft starter S0 12.5 A, 5.5 kW/400 V, 40  $^\circ\text{C}$  200-480 V AC, 24 V AC/DC Screw terminals Thermistor motor protection

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	А	12.5
• at 50 °C rated value	А	11
<ul> <li>at 60 °C rated value</li> </ul>	А	10
yielded mechanical performance for 3-phase motors		
• at 230 V		
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	kW	3
• at 400 V		
— at standard circuit at 40 °C rated value	kW	5.5
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	3
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	200 480
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	5

continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during	W	2
operation typical		
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	%	-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		S0
width	mm	45
height	mm	125
depth	mm	155
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	15
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		
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 2.5 mm²), 2x (2.5 6 mm²), max. 1x 10 mm²
<ul> <li>finely stranded with core end processing</li> </ul>		$2x (1 \dots 2.5 \text{ mm}^2), 2x (2.5 \dots 6 \text{ mm}^2)$
type of connectable conductor cross-sections for AWG cables for main contacts for box terminal		( · · · · · · · · · , ) - · · (-· · · · · · · · )
using the front clamping point		1x 8, 2x (16 10)
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 2.5 mm <sup>2</sup> )
type of connectable conductor cross-sections for AWG cables		
for auxiliary contacts		2x (20 14)

<ul> <li>for auxiliary contain processing</li> </ul>	acts finely stranded with o	core end		2x (20 16)		
Ambient conditions						
	t height above sea level		m	5 000		
environmental catego						
•	according to IEC 60721			2K2, 2C1, 2S1,	2M2 (max. fall height 0.3	m)
during storage according to IEC 60721					1K6 (only occasional condensation), 1C2 (no salt mist), 1S	
during storage according to IEC 60721			(sand must not	(sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt mis		
			3S2 (sand must	t not get into the devices),	3M6	
ambient temperature						
during operation		°C	-25 +60			
• during storage		°C	-40 +80			
derating temperature		°C	40			
protection class IP on the front according to IEC 60529			IP20			
touch protection on th	touch protection on the front according to IEC 60529			finger-safe, for	vertical contact from the fr	ont
JL/CSA ratings						
yielded mechanical p	erformance [hp] for 3-ph	ase AC motor				
• at 220/230 V						
— at standard	l circuit at 50 °C rated valu	Je	hp	3		
• at 460/480 V						
	l circuit at 50 °C rated valu	Je	hp	7.5		
contact rating of auxi	liary contacts according	to UL		B300 / R300		
Approvals Certificates	, .					
General Product App	roval					EMV
		Confirmation		•		•
EMV	For use in hazard-	Test Certificate	S		Marine / Shipping	RCM
	CCC For use in hazard- ous locations				<b>LTL</b> Marine / Shipping	RCM
EMV KC		Test Certificate Type Test Certi ates/Test Repo	i <u>fic-</u> S	pecial Test Certific- ate	Marine / Shipping	RCM RCM
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