## SIEMENS

## Data sheet

## 3RW4024-2TB04



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

General technical data		
product brand name		SIRIUS
product designation		Soft starter
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
blocking voltage of the thyristor maximum	V	1 600
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		
operational current		
<ul> <li>at 40 °C rated value</li> </ul>	А	12.5
• at 50 °C rated value	А	11
• at 60 °C rated value	А	10
yielded mechanical performance for 3-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	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	A	5			
continuous operating current [% of le] at 40 °C	%	115			
power loss [W] at operational current at 40 °C during operation typical	W	2			
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					
<ul> <li>at 50 Hz rated value</li> </ul>	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		SO			
width	mm	45			
height	mm	150			
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		300			
number of poles for main current circuit		3			
Connections/ Terminals					
type of electrical connection					
for main current circuit		spring-loaded terminals			
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> </ul>		spring-loaded terminals			
number of NC contacts for auxiliary contacts					
number of NO contacts for auxiliary contacts		2			
· · · · · · · · · · · · · · · · · · ·		1			
number of CO contacts for auxiliary contacts 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 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> )			
type of connectable conductor cross-sections for AWG cables for main contacts for box terminal		2x(12.0  mm), 2x(2.00  mm)			
using the front clamping point		1x 8, 2x (16 10)			
type of connectable conductor cross-sections for main contacts		1 0, 2 (10 10)			
• solid		1 10 mm²			
		1 6 mm²			
finely stranded with core end processing type of connectable conductor cross-sections for auxiliary					
contacts					

<ul> <li>solid</li> <li>finely stranded w</li> </ul>	ith core end processing			2x (0.25 2.5 2x (0.25 1.5			
type of connectable c	onductor cross-section	s for AWG		2X (0.25 1.5	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
<ul> <li>cables</li> <li>for main contacts</li> </ul>				16 10, 1x 8			
	for main contacts     for auxiliary contacts			2x (24 14)			
Ambient conditions							
installation altitude at	height above sea level		m	5 000			
environmental catego	ry						
<ul> <li>during transport</li> </ul>	during transport according to IEC 60721			2K2, 2C1, 2S1	, 2M2 (max. fall height 0.3	5 m)	
<ul> <li>during storage ad</li> </ul>	<ul> <li>during storage according to IEC 60721</li> </ul>				sional condensation), 1C		
<ul> <li>during operation</li> </ul>	according to IEC 60721			3K6 (no format	get inside the devices), 1 ion of ice, no condensatio	n), 3C3 (no salt mist),	
				3S2 (sand must not get into the devices), 3M6		, 3M6	
ambient temperature			°C				
• •	during operation		°C °C	-25 +60 -40 +80	-25 +60		
	during storage		0°C	40 +80			
	derating temperature protection class IP on the front according to IEC 60529		0	IP20			
-	ne front according to IE				vertical contact from the f	ront	
Environmental footprin				iniger cale, ier			
Global Warming Potent			kg	121			
	Global Warming Potential [CO2 eq] during manufacturing		kg	4.24			
	global warming potential [CO2 eq] during sales		kg	0.207			
Global Warming Potent	Global Warming Potential [CO2 eq] during operation		kg	117			
Global Warming Potent	Global Warming Potential [CO2 eq] after end of life		kg	-0.229			
UL/CSA ratings							
yielded mechanical pe	erformance [hp] for 3-pl	nase AC motor					
• at 220/230 V							
— at standard	circuit at 50 °C rated value	le	hp	3			
• at 460/480 V							
— at standard	— at standard circuit at 50 °C rated value		hp	7.5			
contact rating of auxi	liary contacts according	to UL		B300 / R300			
Approvals Certificates			_				
General Product App	roval				EMV		
	<b>Confirmation</b>	$\sim$			^	KC	
(000)		(Ų_)		ГНГ	<i>κ</i> λ		
		<u>e</u>		LIIL	$\sim$		
		01			RGM		
For use in hazardous	locations	Test Certificate	S		Marine / Shipping		
		Special Test Cer		ype Test Certific-	<b>¥ 8</b>	11 1	
(Ex)	IECE×	ate	ŝ	ates/Test Report	14	Lloyd's Register	
ATEX	IECEx				DNV	185	
Alex	IECEX				DNV	0.5	
Marine / Shipping	other	Railway	En	vironment			
Marine / Shipping				vironment			
Marine / Shipping	other Confirmation	Railway Confirmation		vironment	Environmental Con- firmations		
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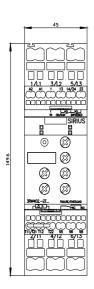
## Industry Mall (Online ordering system)

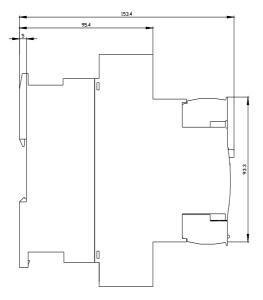
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4024-2TB04 Cax online generator

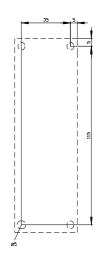
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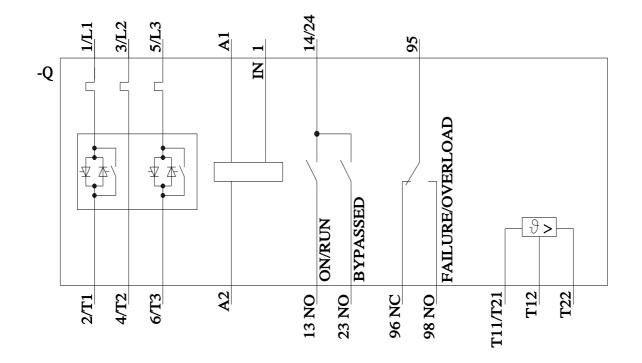
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4024-2TB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4024-2TB04&lang=en









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