## SIEMENS

## Data sheet

## 3RW4024-1BB04



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

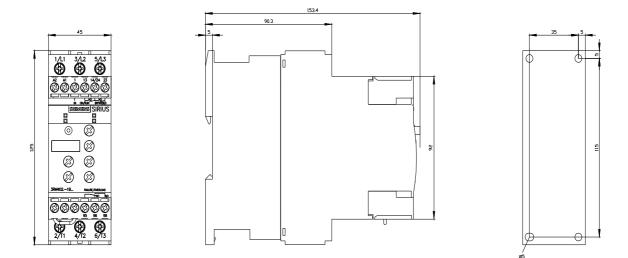
General technical data		
product brand name		SIRIUS
product feature		
<ul> <li>integrated bypass contact system</li> </ul>		Yes
thyristors		Yes
product function		
<ul> <li>intrinsic device protection</li> </ul>		Yes
<ul> <li>motor overload protection</li> </ul>		Yes
<ul> <li>evaluation of thermistor motor protection</li> </ul>		No
<ul> <li>external reset</li> </ul>		Yes
<ul> <li>adjustable current limitation</li> </ul>		Yes
<ul> <li>inside-delta circuit</li> </ul>		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		G
according to IEC 204-2 according to IEC 750 Power Electronics		
	_	Soft starter
product designation		Solt statter
operational current	•	10.5
<ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> </ul>	A A	12.5 11
at 50 °C rated value     at 60 °C rated value	A	10
	A	10
yielded mechanical performance for 3-phase motors • at 230 V		
	kW	3
<ul> <li>— at standard circuit at 40 °C rated value</li> <li>at 400 V</li> </ul>	KVV	5
<ul> <li>at 400 v</li> <li>— at standard circuit at 40 °C rated value</li> </ul>	kW	5.5
yielded mechanical performance [hp] for 3-phase AC	hp	3
motor at 200/208 V at standard circuit at 50 °C rated value	пр	5
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	А	5
protection minimum rated value		

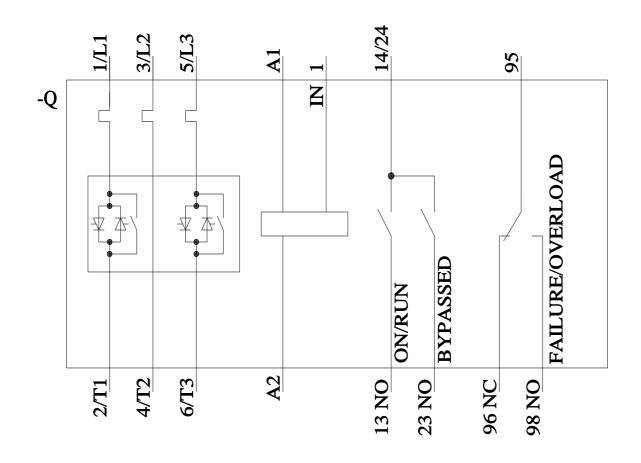
continuous operating current [% of le] at 40 °C power loss [W] at operational current at 40 °C during % 115 W 2

Procession         Second encode           type of voltage of the control supply voltage         AC/DC           control supply voltage frequency 1 rated value         Hz         60           relative negative before of the control supply         %         10           voltage frequency         %         10           voltage at AC at 50 Hz         %         -15           voltage at AC at 50 Hz         10         %           voltage at AC at 50 Hz         10         %           voltage at AC at 50 Hz         %         -15           voltage at AC at 60 Hz         %         -20           voltage at AC at 60 Hz         %         -20           voltage at AC at 60 Hz         %         -20           voltage at AC at 60 Hz         %         20	power loss [W] at operational current at 40 °C during operation typical	W	2		
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relative positive information of the control supply control supply voltage 1 at AC • at 00 Hz rade value • batz • batz		%			
voltage frequency control supply voltage 1 at AC         V         24           • at 60 Hz rated value         V         24           • at 60 Hz rated value         V         24           • etative negative tolerance of the control supply         %         10           • voltage at AC at 60 Hz         10           • relative negative tolerance of the control supply         %         10           • voltage at AC at 60 Hz         10           • voltage at AC at 60 Hz         20           • voltage at AC at 60 Hz         70           • voltage at AC if fast         70           • voltage at AC if fast         70           • voltage at AC if fast         70	voltage frequency				
• at 60 Hz rated value       V       24         relative negative tolerance of the control supply       V       24         relative negative tolerance of the control supply       %       -15         voltage at AC at 60 Hz       10         relative negative tolerance of the control supply       %       -15         voltage at AC at 60 Hz       10         relative negative tolerance of the control supply       %       -15         voltage at AC at 60 Hz       V       24         control supply voltage 1 at DC rated value       V       24         voltage at AC at 60 Hz       V       24         control supply voltage 1 at DC rated value       V       24         voltage at AC       80       20         voltage at AC       80       80         woltage at AC       80       80         mm       155       55         fastening method       mm       156         mounting position       90       90         vita dotilonal far. Wth vertical mounting surface +/-00° to       100         vitage at AC		%	10		
• at 0 Hz rated value     V     24       voltage at AC at 60 Hz     50       voltage at AC at 60 Hz     70       volta	control supply voltage 1 at AC				
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voltage at DC     red       display version for fault signal     red       Mechanical data     size of engine control device     mm       size of engine control device     mm     45       width     mm     125       depth     mm     125       fastening method     screw and snap-on mounting     surface +/-00°       mounting position     With additional fan: With vertical mounting surface +/-00°       required spacing with side-by-side mounting     surface +/- 10° t       required spacing with side-by-side mounting     mm     60       • at the side     mm     15       • downwards     mm     40       wire length maximum     m     300       connections/Terminals     screw-type terminals       type of electrical connection     o       • for main current circuit     screw-type terminals       • for auxiliary and control circuit     screw-type terminals       number of NC contacts for auxiliary contacts     1       type of electrical connection or fine circuit     screw-type terminals       • for main current circuit     screw-type terminals       • solid     exil (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), max. 1x 10 mm <sup>2</sup> • solid     xx (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), max. 1x 10 mm <sup>2</sup> • solid     zx (0.5 1.5 mm <sup>2</sup> ) <th></th> <th>%</th> <th>-20</th>		%	-20		
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size of engine control device with height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards • for main current circuit • for auxiliary contacts type of connectable for auxiliary contacts type of connectable conductor cross-sections for auxiliary contacts for box terminal • using the front clamping point type of connectable conductor cross-sections at AWG cables • sold • finely stranded with core end processing type of connectable conductor cross-sections at AWG cables • sold • finely stranded with core end processing type of connectable conductor cross-sections at AWG cables • sold • finely stranded with core end processing type of connectable conductor cross-sections at AWG cables • sold • finely stranded with core end processing type of connectable conductor cross-sections at AWG cables • sold • finely stranded with core end processing type of connectable conductor cross-sections at AWG cables • sold • finely stranded with core end processing type of connectable conductor cross-sections at AWG cables • sold • finely stranded with core end process	display version for fault signal		red		
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<ul> <li>for auxiliary and control circuit</li> <li>for auxiliary and control circuit</li> <li>number of NC contacts for auxiliary contacts</li> <li>number of CO contacts for auxiliary contacts</li> <li>number of CO contacts for auxiliary contacts</li> <li>type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections at AWG cables for main contacts</li> <li>a solid</li> <li>a using the front clamping point</li> <li>type of connectable conductor cross-sections for auxiliary contacts</li> <li>a solid</li> <li>a using the front clamping point</li> <li>type of connectable conductor cross-sections for auxiliary contacts</li> <li>a solid</li> <li>b solid</li> <li>connectable conductor cross-sections for auxiliary contacts</li> <li>a solid</li> <li>b solid</li> <li>connectable conductor cross-sections for auxiliary contacts</li> <li>a solid</li> <li>b solid</li> <li>connectable conductor cross-sections at AWG</li> <li>cables for main contacts for box terminal</li> <li>a solid</li> <li>b solid</li> <li>connectable conductor cross-sections at AWG</li> <li>cables</li> </ul>					
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number of CO contacts for auxiliary contacts1type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point1• solid2x (1 2.5 mm²), 2x (2.5 6 mm²), max. 1x 10 mm² 2x (1 2.5 mm²), 2x (2.5 6 mm²)type of connectable conductor cross-sections at AWG cables for main contacts for box terminal • using the front clamping point1x 8, 2x (1 2.5 mm²), 2x (2.5 6 mm²)type of connectable conductor cross-sections at AWG cables for main contacts1x 8, 2x (16 10)type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²)type of connectable conductor cross-sections at AWG cables2x (0.5 1.5 mm²)					
type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point $2x (1 2.5 mm^2), 2x (2.5 6 mm^2), max. 1x 10 mm^2$ $2x (1 2.5 mm^2), 2x (2.5 6 mm^2)$ • solid • finely stranded with core end processing type of connectable conductor cross-sections at AWG cables for main contacts for box terminal • using the front clamping point $2x (1 2.5 mm^2), 2x (2.5 6 mm^2), max. 1x 10 mm^2$ $2x (1 2.5 mm^2), 2x (2.5 6 mm^2)$ type of connectable conductor cross-sections at AWG cables for main contacts for box terminal • using the front clamping point $1x 8, 2x (16 10)$ type of connectable conductor cross-sections at AWG e finely stranded with core end processing $2x (0.5 2.5 mm^2)$ $2x (0.5 1.5 mm^2)$ type of connectable conductor cross-sections at AWG cables $2x (0.5 1.5 mm^2)$	-				
main contacts for box terminal using the front clamping point2x (1 2.5 mm²), 2x (2.5 6 mm²), max. 1x 10 mm²• solid2x (1 2.5 mm²), 2x (2.5 6 mm²), max. 1x 10 mm²• finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 6 mm²)type of connectable conductor cross-sections at AWG cables for main contacts for box terminal • using the front clamping point1x 8, 2x (16 10)type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²)type of connectable conductor cross-sections at AWG cables2x (0.5 1.5 mm²)	5				
<ul> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections at AWG cables for main contacts for box terminal         <ul> <li>using the front clamping point</li> <li>type of connectable conductor cross-sections for auxiliary contacts</li> <li>solid</li> <li>finely stranded with core end processing</li> </ul> <ul> <li>type of connectable conductor cross-sections for auxiliary contacts</li> <li>solid</li> <li>type of connectable conductor cross-sections at AWG</li> <li>type of connectable conductor cross-sections for auxiliary contacts</li> <li>solid</li> <li>type of connectable conductor cross-sections at AWG cables</li> </ul> </li> </ul>	main contacts for box terminal using the front				
type of connectable conductor cross-sections at AWG         cables for main contacts for box terminal         • using the front clamping point         type of connectable conductor cross-sections for auxiliary contacts         • solid         • solid         • finely stranded with core end processing         type of connectable conductor cross-sections at AWG         cables	• solid		2x (1 2.5 mm²), 2x (2.5 6 mm²), max. 1x 10 mm²		
cables for main contacts for box terminal       1x 8, 2x (16 10)         • using the front clamping point       1x 8, 2x (16 10)         type of connectable conductor cross-sections for auxiliary contacts       2x (0.5 2.5 mm²)         • solid       2x (0.5 1.5 mm²)         type of connectable conductor cross-sections at AWG cables       2x (0.5 1.5 mm²)			2x (1 2.5 mm²), 2x (2.5 6 mm²)		
type of connectable conductor cross-sections for auxiliary contacts       2x (0.5 2.5 mm²)         • solid       2x (0.5 1.5 mm²)         • finely stranded with core end processing       2x (0.5 1.5 mm²)         type of connectable conductor cross-sections at AWG cables       2x (0.5 1.5 mm²)	51				
auxiliary contacts <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections at AWG cables</li> </ul> <ul> <li>2x (0.5 2.5 mm²)</li> <li>2x (0.5 1.5 mm²)</li> </ul>			1x 8, 2x (16 10)		
• finely stranded with core end processing 2x (0.5 1.5 mm <sup>2</sup> ) type of connectable conductor cross-sections at AWG cables					
type of connectable conductor cross-sections at AWG cables	• solid		2x (0.5 2.5 mm²)		
cables	<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 1.5 mm²)		
• for auxiliary contacts 2x (20 14)	51				
	<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 environmental category • during transport according to IEC 60721 • during storage according to IEC 60721 • during operation according to IEC 60721		m	5 000 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6			
ambient temperature • during operation • during storage derating temperatur protection class IP of 60529	n	o IEC	ວ° ວ° ວ°	-25 +60 -40 +80 40 IP20		
touch protection on	the front according to	IEC 60529		finger-safe, for vertical contact from the front		
Certificates/ approval	S					
General Product Ap	oproval					EMC
SP CM	<u>Confirmation</u>	(CCC			EHC	RCM
Declaration of Conformity	Test Certificates		Mar	ine / Shipping		
CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Ce</u> <u>ate</u>	ertific-	Llovd's Register uis	PRS	DNV-GL
other	Railway					
Confirmation	Confirmation					
UL/CSA ratings						
	performance [hp] for 3-	phase AC				
	d circuit at 50 °C rated va	alue	hp	3		
<ul> <li>at 460/480 V</li> <li>— at standard circuit at 50 °C rated value</li> <li>contact rating of auxiliary contacts according to UL</li> </ul>		hp	7.5 B300 / R300			

Further information
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=3RW4024-1BB04
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4024-1BB04
Service&Support (Manuals, Certificates, Characteristics, FAQs,)
https://support.industry.siemens.com/cs/ww/en/ps/3RW4024-1BB04
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)





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