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

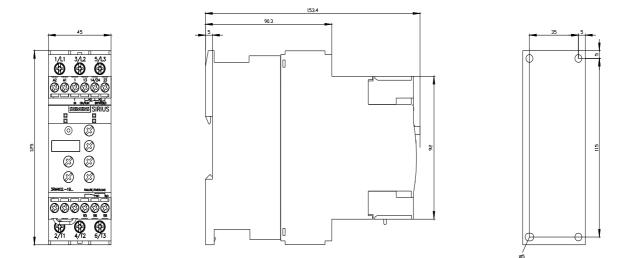
General technical data		
product brand name		SIRIUS
product feature		
 integrated bypass contact system 		Yes
thyristors		Yes
product function		
 intrinsic device protection 		Yes
 motor overload protection 		Yes
 evaluation of thermistor motor protection 		No
 external reset 		Yes
 adjustable current limitation 		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		G
according to IEC 204-2 according to IEC 750 Power Electronics		
	_	Soft starter
product designation		Solt statter
operational current	•	10.5
 at 40 °C rated value at 50 °C rated value 	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
 — at standard circuit at 40 °C rated value at 400 V 	KVV	5
 at 400 v — at standard circuit at 40 °C rated value 	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		

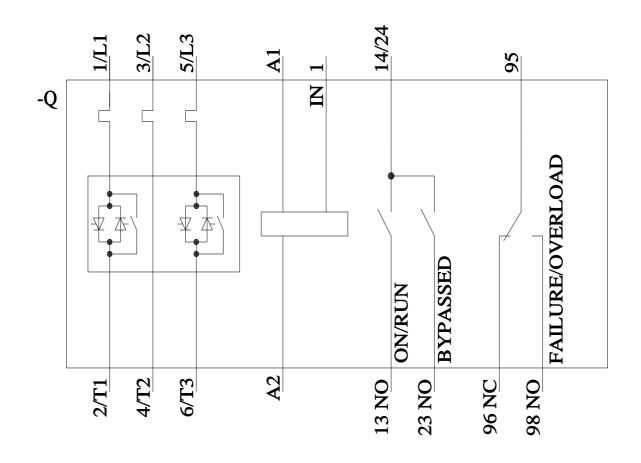
continuous operating current [% of le] at 40 °C power loss [W] at operational current at 40 °C during % 115 W 2

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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				
 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 type of connectable conductor cross-sections for auxiliary contacts solid finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid type of connectable conductor cross-sections at AWG type of connectable conductor cross-sections for auxiliary contacts solid type of connectable conductor cross-sections at AWG cables 	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 solid finely stranded with core end processing type of connectable conductor cross-sections at AWG cables 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²) 			1x 8, 2x (16 10)		
• finely stranded with core end processing 2x (0.5 1.5 mm ²) 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	 finely stranded with core end processing 		2x (0.5 1.5 mm²)		
• for auxiliary contacts 2x (20 14)	51				
	 for auxiliary contacts 		2x (20 14)		

 for auxiliary contacts finely stranded with core end processing 				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		
 at 460/480 V — at standard circuit at 50 °C rated value contact rating of auxiliary contacts according to 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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