SIEMENS

Data sheet

3RW4024-1BB14



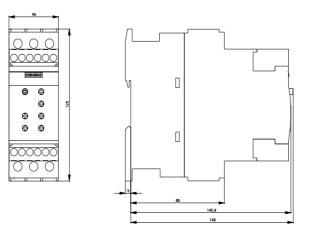
SIRIUS soft starter S0 12.5 A, 5.5 kW/400 V, 40 $^{\circ}\text{C}$ 200-480 V AC, 110-230 V AC/DC Screw terminals

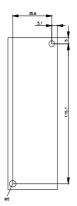
General technical data		
product brand name		SIRIUS
product feature		
 integrated bypass contact system 		Yes
thyristors		Yes
product function		
 intrinsic device protection 		Yes
 motor overload protection 		Yes
 evaluation of thermistor motor protection 		No
external reset		Yes
 adjustable current 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 acc. to DIN EN 61346-2		Q
reference code acc. to DIN 40719 extended according to IEC 204-2 acc. 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
• 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

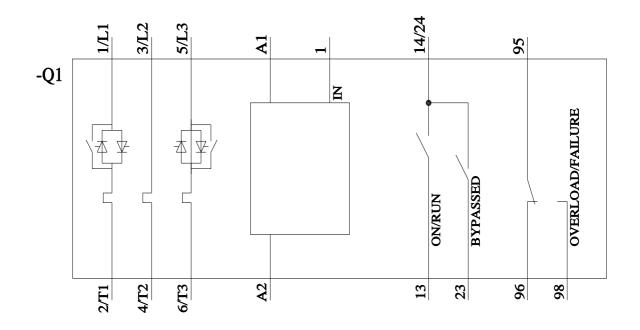
adjustable motor current for motor overload protection minimum rated value	А	5
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	2
Control circuit/ Control		
type of voltage of the control supply voltage		AC/DC
control supply 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 at 50 Hz	V	110 230
control supply voltage 1 at AC at 60 Hz	V	110 230
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	V	110 230
relative negative tolerance of the control supply voltage at DC	%	-15
relative positive tolerance of the control supply voltage at DC	%	10
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		0
number of NO contacts for auxiliary contacts		2
number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point	-	ı 2x (1 2.5 mm²), 2x (2.5 6 mm²), max. 1x 10 mm²
• solid		
 solid finely stranded with core end processing 		2x (1 2.5 mm ²), 2x (2.5 6 mm ²)
• finely stranded with core end processing type of connectable conductor cross-sections at AWG cables for main contacts for box terminal		
 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 mm²), 2x (2.5 6 mm²) 1x 8, 2x (16 10)
• finely stranded with core end processing type of connectable conductor cross-sections at AWG cables for main contacts for box terminal		

 finely stranded 	with core end processing	1		2x (0.5 1.5	mm²)			
-			2. (0.0 1.0					
cables	type of connectable conductor cross-sections at AWG cables							
 for auxiliary col 	 for auxiliary contacts 				2x (20 14)			
	 for auxiliary contacts finely stranded with core end 			2x (20 16)				
processing	processing							
Ambient conditions								
	installation altitude at height above sea level			5 000				
environmental cate	• •							
	 during transport acc. to IEC 60721 			2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)				
 during storage 	acc. to IEC 60721			1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4				
e during oppratio	on and to IEC 60721			· · · · · · · · · · · · · · · · · · ·				
	on acc. to IEC 60721			3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6				
ambient temperatur	re				0	<i>,,</i>		
 during operation 	n		°C	-25 +60				
 during storage 			°C	-40 +80				
derating temperatur	re		°C	40				
	on the front acc. to IEC	60529		IP20				
	the front acc. to IEC 60			finger-safe, fo	r vertical contact fror	n the front		
Certificates/ approva								
						For use in hazard-		
General Product A	pproval				EMC	ous locations		
		\sim			A			
(SP	(000)	(ŲL)		FHI		<8x>		
	<u> </u>	<u> </u>		LIIL				
CSM	ccc -	01			TO M	ATEA		
Declaration of	Test Certificates		Ма	rine / Shipping				
Conformity								
	Special Test Certific-	Turna Taat Cartif	fie			-781		
()	<u>ate</u>	Type Test Certif ates/Test Repo		Lloyds	(3)	And and a second		
				Kegister		DNVGL		
EG-Konf.				LRS	PRS	Devolution		
other	Railway							
Confirmation	Confirmation							
UII /00 A								
UL/CSA ratings	nonformer en til 1.6 - 6	nhaas AQ						
yielded mechanical motor	performance [hp] for 3	-pnase AC						
• at 220/230 V								
	rd circuit at 50 °C rated va	alue	hp	3				
• at 460/480 V			ΠP	Č .				
	 at 460/460 v at standard circuit at 50 °C rated value 			7.5				
contact rating of auxiliary contacts according to UL			hp	B300 / R300				
Further information								
Simulation Tool for Soft Starters (STS)								
https://support.industry.siemens.com/cs/ww/en/view/101494917								
Information- and Downloadcenter (Catalogs, Brochures,)								
https://www.siemens.com/ic10								
	Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product2mlfh=3RW4024-1BB14							
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4024-1BB14 Cax online generator								
Cax online generator								

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4024-1BB14 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4024-1BB14 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4024-1BB14&lang=en







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