SIEMENS

Data sheet

3RW4024-1BB15

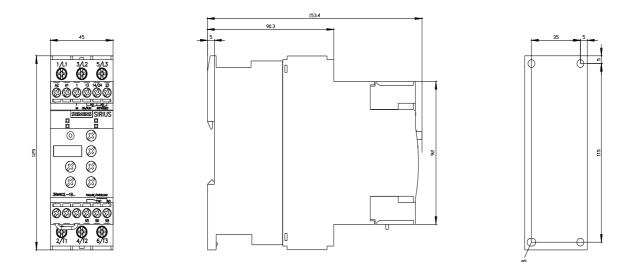


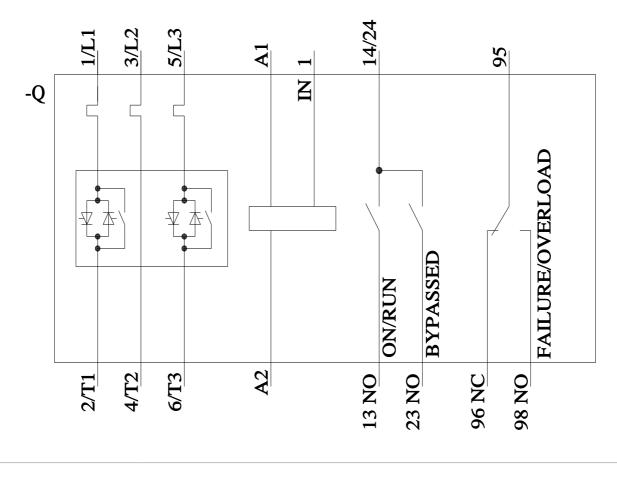
SIRIUS soft starter S0 12.5 A, 7.5 kW/500 V, 40 $^\circ\text{C}$ 400-600 V AC, 110-230 V AC/DC Screw terminals

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 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
• at 60 °C rated value	А	10
yielded mechanical performance for 3-phase motors		
● at 400 V		
 — at standard circuit at 40 °C rated value 	kW	5.5
• at 500 V		
— at standard circuit at 40 °C rated value	kW	7.5
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	400 600
relative negative tolerance of the operating voltage at standard circuit	%	-15
relative positive tolerance of the operating voltage at standard circuit	%	10
minimum load [9/]	%	20
minimum load [%]		
adjustable motor current for motor overload protection minimum rated value	A	5

	_	
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
	%	-10
relative negative tolerance of the control supply voltage frequency		
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 atAC 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° 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		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
 finely stranded with core end processing 		2x (1 2.5 mm²), 2x (2.5 6 mm²)
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)
 finely stranded with core end processing 		2x (0.5 1.5 mm ²)
type of connectable conductor cross-sections for AWG cables		
for auxiliary contacts		2x (20 14)
 for auxiliary contacts finely stranded with core end processing 		2x (20 16)
Ambient conditions		

installation altitude at	•	el	m	5 000				
environmental catego	3							
 during transport according to IEC 60721 			2K2, 2C1, 2S1	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)				
 during storage ad 	ccording to IEC 60721				1K6 (only occasional condensation), 1C2 (no salt mist), 1S2			
• during operation according to IEC 60721			3K6 (no format	(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 			°C	-25 +60				
 during storage 			°C	-40 +80	-40 +80			
derating temperature			°C	40				
protection class IP on	the front according t	o IEC 60529		IP20				
touch protection on th	EC 60529		finger-safe, for	vertical contact from the fro	ont			
ertificates/ approvals								
General Product App	roval					EMC		
() E		<u>Confirmatic</u>	חמ	Ű	EHC			
Declaration of Confor	rmity	Test Certificat	es		Marine / Shipping			
CE EG-Konf.	UK CA	<u>Special Test Ce</u> <u>ate</u>		pe Test Certific- tes/Test Report	Lloyd's Register urs	PRS		
Marine / Shipping	other	Railway						
DNV-GL	<u>Confirmation</u>	<u>Confirmatic</u>	<u>a 1</u>					
L/CSA ratings								
yielded mechanical pe	erformance [hp] for 3-	phase AC motor						
• at 460/480 V								
— at standard	circuit at 50 °C rated v	alue	hp	7.5				
• at 575/600 V								
— at standard	circuit at 50 °C rated v	alue	hp	10				
contact rating of auxil	liary contacts accordi	ng to UL		B300 / R300				
urther information	-	-						
Siemens has decided	to exit the Russian m	arket (see here).						
Siemens is working of Please contact your loc EAC relevant market (o Simulation Tool for So https://support.industry. Information on the par https://support.industry. Information- and Dow https://www.siemens.cc Industry Mall (Online of https://mall.industry.sie Cax online generator http://support.automatic	al Siemens office on the ther than the sanctione oft Starters (STS) .siemens.com/cs/ww/er ckaging .siemens.com/cs/ww/er nloadcenter (Catalogs om/ic10 ordering system) mens.com/mall/en/en/C	e status of validity of d EAEU member sta n/view/101494917 n/view/109813875 s, Brochures,)	the EAC cert ates Russia or	Belarus). <u>3B15</u>	d to import or offer to supply	y these products to an		
Service&Support (Man https://support.industry. Image database (prod http://www.automation.s	siemens.com/cs/ww/er	h/ps/3RW4024-1BB1 ision drawings, 3D	5 models, devi		s, EPLAN macros,)			





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