## SIEMENS

## Data sheet

## 3RW4024-1BB04

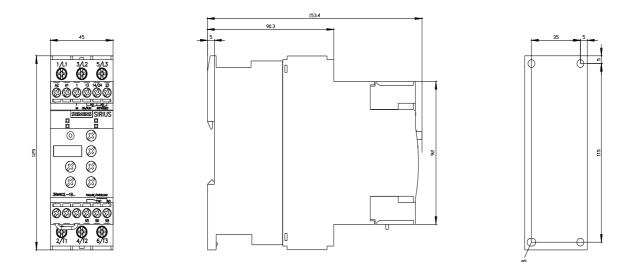


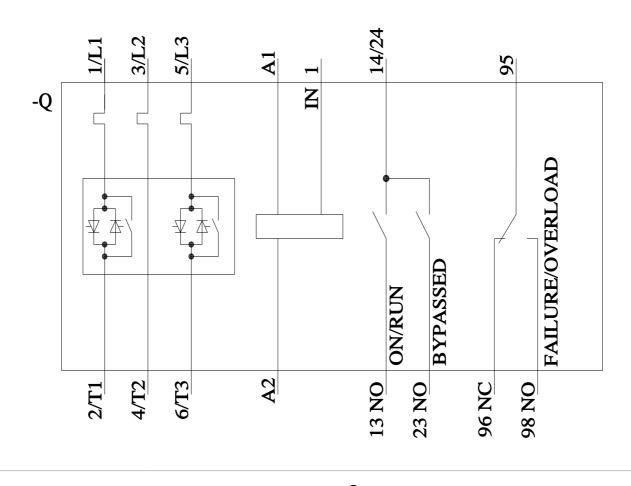
SIRIUS soft starter S0 12.5 A, 5.5 kW/400 V, 40  $^\circ\text{C}$  200-480 V AC, 24 V AC/DC Screw terminals

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
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
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 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	W	2
operation typical		-
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 rated value	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		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
<ul> <li>for auxiliary and control circuit</li> </ul>		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
<ul> <li>finely stranded with core end processing</li> </ul>		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		
<ul> <li>using the front clamping point</li> </ul>		1x 8, 2x (16 10)
type of connectable conductor cross-sections for auxiliary contacts		
• solid		2x (0.5 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 1.5 mm²)
type of connectable conductor cross-sections for AWG cables		
• · · · · · ·		2x(20, 14)
<ul> <li>for auxiliary contacts</li> </ul>		2x (20 14)

for auxiliary contacts finely stranded with core end processing			2x (20 16)	2x (20 16)				
Ambient conditions								
installation altitude at	t height above sea level		m	5 000				
environmental catego								
during transport according to IEC 60721				2K2, 2C1, 2S1,	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)			
during storage according to IEC 60721					1K6 (only occasional condensation), 1C2 (no salt mist), 1S2			
					get inside the devices),			
during operation according to IEC 60721					3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6			
ambient temperature								
<ul> <li>during operation</li> </ul>			°C	-25 +60				
<ul> <li>during storage</li> </ul>			°C	-40 +80	-40 +80			
derating temperature			°C	40	40			
protection class IP or	n the front according to	IEC 60529		IP20				
touch protection on t	he front according to IE	C 60529		finger-safe, for	vertical contact from the	front		
Certificates/ approvals								
						For use in hazard-		
General Product App	oroval				EMC	ous locations		
(SP)	<u>Confirmation</u>	UL.		EHC	RCM	ATEX		
Declaration of Confo	rmity	Test Certificates			Marine / Shipping			
	~ ~	Type Test Certific		pecial Test Certific-	11-1-			
ŪK	(	ates/Test Report		ate	Register	(23)		
ГО	EG-Konf.							
	EG-KONT.				LRS	PRS		
Marine / Shipping	other	Railway						
DNV-GL	<u>Confirmation</u>	<u>Confirmation</u>						
UL/CSA ratings								
<u> </u>	erformance [hp] for 3-p	hase AC motor						
• at 220/230 V	enormance [np] for 3-p	ase AC IIIULOF						
	d circuit at 50 °C rated val	ue	hp	3				
• at 460/480 V								
	d circuit at 50 °C rated val		hp	7.5				
contact rating of auxiliary contacts according to UL				B300 / R300				
https://press.siemens.c Siemens is working of Please contact your loo EAC relevant market (of Simulation Tool for S https://support.industry Information on the pa https://support.industry Information- and Dow https://www.siemens.co Industry Mall (Online https://mall.industry.sie Cax online generator http://support.automatic Service&Support (Ma https://support.industry	siemens.com/cs/ww/en/v ackaging .siemens.com/cs/ww/en/v nloadcenter (Catalogs, om/ic10 ordering system) mens.com/mall/en/en/Ca on.siemens.com/WW/CA nuals, Certificates, Cha .siemens.com/cs/ww/en/p	e/siemens-wind-dowr rrent EAC certificates status of validity of the EAEU member states view/101494917 view/109813875 Brochures,) talog/product?mlfb=3F Xorder/default.aspx?la racteristics, FAQs, ps/3RW4024-1BB04	s. e EAC ce Russia o <u>RW4024-</u> n <u>ng=en&amp;r</u> )	rtification if you intendor or Belarus). <u>1BB04</u> nlfb=3RW4024-1BB0		oply these products to an		
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