## SIEMENS

## Data sheet

## 3RW4024-2BB14

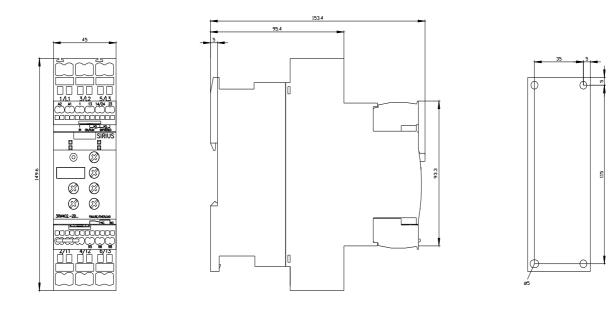


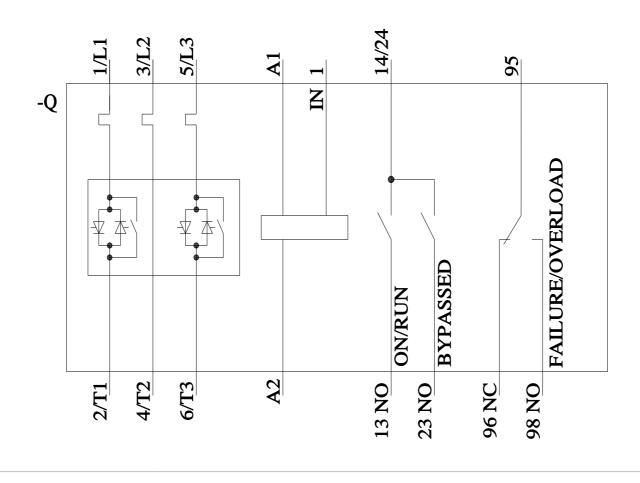
SIRIUS soft starter S0 12.5 A, 5.5 kW/400 V, 40  $^\circ\text{C}$  200-480 V AC, 110-230 V AC/DC spring-type terminals

General technical data		
product brand name		SIRIUS
product feature		
integrated bypass contact system		Yes
thyristors		Yes
product function	-	
intrinsic device protection		Yes
manual device protection     motor overload protection		Yes
evaluation of thermistor motor protection		No
evaluation of thermistor motor protection     external reset		Yes
adjustable current limitation		Yes
inside-delta circuit		No
	-	
product component motor brake output	V	No 600
insulation voltage rated value	V	
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	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	150
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		spring-loaded terminals
<ul> <li>for auxiliary and control circuit</li> </ul>		spring-loaded 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 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> )
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 main contacts		
• solid		1 10 mm²
<ul> <li>finely stranded with core end processing</li> </ul>		1 6 mm <sup>2</sup>
type of connectable conductor cross-sections for auxiliary contacts		
• solid		2x (0.25 2.5 mm²)
• finely stranded with core end processing		2x (0.25 1.5 mm <sup>2</sup> )

cables				
for main contacts		16 10, 1x 8		
for auxiliary contacts		2x (24 14)		
nbient conditions		(		
nstallation altitude at height above sea level	m	5 000		
environmental category				
during transport according to IEC 60721		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 (sand must not get inside the devices), 1M4		
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				
during operation	°C	-25 +60		
during storage	°C	-40 +80		
lerating temperature	°C	40		
protection class IP on the front according to IEC 60529		IP20		
ouch protection on the front according to IEC 60529		finger-safe, for	vertical contact from the fi	ont
/CSA ratings				
vielded mechanical performance [hp] for 3-phase AC motor				
• at 220/230 V				
— at standard circuit at 50 °C rated value	hp	3		
• at 460/480 V				
— at standard circuit at 50 °C rated value	hp	7.5		
contact rating of auxiliary contacts according to UL		B300 / R300		
	e,		<u>Confirmation</u>	Ŵ
General Product Ap-		CCC		Ű
V CO YY	F	or use in hazard- us locations	Test Certificates	<b>U</b>
General Product Ap-	F			Type Test Certific ates/Test Report
General Product Ap- proval EMV	F		Test Certificates	
General Product Approval EMV EFFE EFFE CA EG-Kont EMV EMV EMV	F		Test Certificates Special Test Certific- ate	ates/Test Report
General Product Approval EMV EARC ERC RCM	Ifb=3RW4024-           spx?lang=en&r	2BB14	Test Certificates         Special Test Certificates         ate         Railway         Confirmation	ates/Test Report Environment Environmental Con





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