## SIEMENS

## Data sheet

## 3RW4024-1BB05

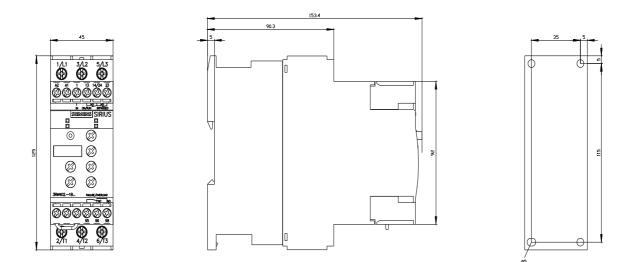


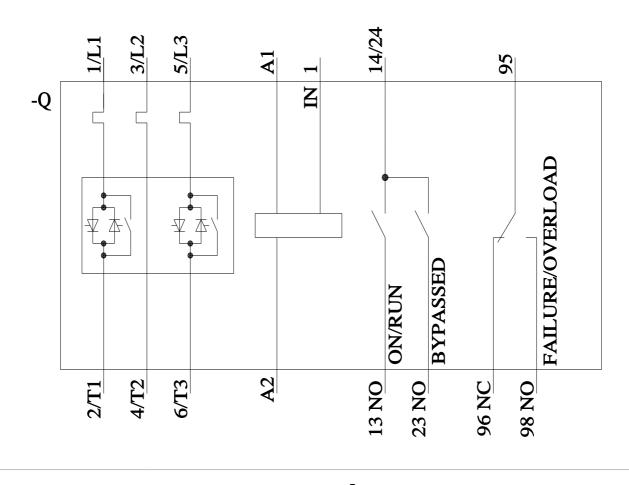
SIRIUS soft starter S0 12.5 A, 7.5 kW/500 V, 40  $^\circ\text{C}$  400-600 V AC, 24 V AC/DC Screw terminals

product brand name		SIRIUS
•		Soft starter
product designation		Solt statter
product feature		Vee
integrated bypass contact system		Yes
thyristors		Yes
product function		No.
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
blocking voltage of the thyristor maximum	V	1 600
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
ower Electronics		
operational current		
<ul> <li>at 40 °C rated value</li> </ul>	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 [%]	%	20
adjustable motor current for motor overload protection minimum rated value	А	5

continuous operating oursent [9/ of [e] at 40 °C	%	115
continuous operating current [% of le] at 40 °C	% W	2
power loss [W] at operational current at 40 °C during operation typical	٧V	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 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		SO
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 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), max. 1x 10 mm <sup>2</sup>
<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 auxiliary contacts		
• solid		2x (0.5 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 1.5 mm <sup>2</sup> )
type of connectable conductor cross-sections for AWG cables		
<ul> <li>for auxiliary contacts</li> </ul>		2x (20 14)

<ul> <li>for auxiliary contain processing</li> </ul>	cts finely stranded with o	core end		2x (20 16)		
Ambient conditions						
installation altitude at h	hoight chove and lovel			5 000		
environmental categor			m	5 000		
	ccording to IEC 60721			2K2 2C1 2S1	I 2M2 (max_fall beight 0.3	m)
during storage according to IEC 60721			2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2			
during storage according to IEC 60721     during operation according to IEC 60721			(sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt mist)		M4 n), 3C3 (no salt mist),	
ambient temperatura			3S2 (sand mu	st not get into the devices)	, 3M6	
ambient temperature			00	05 .00		
during operation		°C	-25 +60			
during storage		3° 3°	-40 +80 40	-40 +80		
	derating temperature		C	40 IP20		
	protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529				r vertical contact from the fi	ront
UL/CSA ratings		6 00329		linger-sale, ioi		iont
yielded mechanical per • at 460/480 V	rformance [hp] for 3-ph	nase AC motor				
	circuit at 50 °C rated valu	Je	hp	7.5		
• at 575/600 V			r			
- at standard o	circuit at 50 °C rated valu	Je	hp	10		
contact rating of auxilia	ary contacts according	to UL		B300 / R300		
Approvals Certificates						
EG-Konf.	<u> </u>				জ	EHL
					UL	
EMV		For use in haza ous locations	ard- Test	t Certificates	UL	Marine / Shipping
EMV RCM	KC		Test	t Certificates	uL Special Test Certific- ate	Marine / Shipping
Ø	KC	ous locations	Test	be Test Certific- es/Test Report		ĴÅ div
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