## 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		
intrinsic device protection		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 power loss [W] at operational current at 40 °C during operation typical	% W	115 2
operation typical	W	2
		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
/lechanical 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		
<ul> <li>for main current circuit</li> </ul>		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		
		2x (0.5 2.5 mm²)
• solid		
contacts		2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²)

<ul> <li>for auxiliary contacts finely stranded with core end processing</li> </ul>				2x (20 16)		
mbient conditions						
installation altitude at height above sea level			m	5 000		
environmental category						
during transport according to IEC 60721				2K2, 2C1, 2S7	I, 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				tion of ice, no condensation), st not get into the devices), 3		
ambient temperature						
<ul> <li>during operation</li> </ul>			°C	-25 +60		
<ul> <li>during storage</li> </ul>			°C	-40 +80		
derating temperature			°C	40		
protection class IP on	the front according to	o IEC 60529		IP20		
touch protection on th	e front according to I	EC 60529		finger-safe, for	r vertical contact from the fror	nt
ertificates/ approvals						
(SP)	roval			(UL)	EAC	
CSA Declaration of Confor		CCC Test Certificate	25	(UL) UL		RCM
CSA Declaration of Conform		CCC Test Certificate	95	(h) u	<b>ERE</b> Marine / Shipping	RCM
Declaration of Conform UKCA		CCC Test Certificate	95	(U) u		RCM
	<sup>mity</sup>	CCC Test Certificate	95	U	Marine / Shipping	RCM
UK CA	mity CE EG-Konf.		9S	U	Marine / Shipping	RCM

yielded 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



