## SIEMENS

## Data sheet

## 3RW3046-1BB04



SIRIUS soft starter S3 80 A, 45 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 designation		Soft starter
product feature		
<ul> <li>integrated bypass contact system</li> </ul>		Yes
• thyristors		Yes
product function		
intrinsic device protection		No
<ul> <li>motor overload protection</li> </ul>		No
<ul> <li>evaluation of thermistor motor protection</li> </ul>		No
external reset		No
<ul> <li>adjustable current limitation</li> </ul>		No
• 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
Power Electronics		
operational current		
• at 40 °C rated value	А	80
• at 50 °C rated value	А	73
• at 60 °C rated value	А	66
yielded mechanical performance for 3-phase motors		
• at 230 V		
- at standard circuit at 40 °C rated value	kW	22
• at 400 V		
- at standard circuit at 40 °C rated value	kW	45
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	20
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 [%]	%	10

continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during		12
operation typical	vv	12
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	%	-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		S3
width	mm	70
height	mm	170
depth	mm	190
fastening method	_	screw and snap-on mounting
mounting position		With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° tiltable to the front and back
required spacing with side-by-side mounting		
• upwards	mm	60
• at the side	mm	30
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		1
number of CO contacts for auxiliary contacts		0
type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point		
• solid		2x (2.5 16 mm <sup>2</sup> )
<ul> <li>finely stranded with core end processing</li> </ul>		2.5 35 mm²
• stranded		4 70 mm²
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		
• solid		2x (2.5 16 mm <sup>2</sup> )
<ul> <li>finely stranded with core end processing</li> </ul>		2.5 50 mm²
• stranded		10 70 mm²
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		
• solid		2x (2.5 16 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		2x (2.5 35 mm²)
		2x (10 50 mm²)

type of connectable c cables for main conta	onductor cross-section	s for AWG					
				10 2/0			
using the back clamping point			10 2/0				
<ul> <li>using the front clamping point</li> <li>using both clamping points</li> </ul>			2x (10 1/0)				
type of connectable c	onductor cross-section	s for DIN cable		2X (10 1/0)			
lug for main contacts					0		
finely stranded				2 x (10 50 mm²)			
stranded			2x (10 70 mr	2x (10 70 mm²)			
type of connectable c contacts	onductor cross-section	s for auxiliary					
solid				2x (0.5 2.5 m	2x (0.5 2.5 mm²)		
	vith core end processing				2x (0.5 1.5 mm <sup>2</sup> )		
finely stranded with core end processing  type of connectable conductor cross-sections for AWG							
• for main contacts	8			2x (7 1/0)			
<ul> <li>for auxiliary cont</li> </ul>				2x (7 170) 2x (20 14)	2x (7 1/0)		
Ambient conditions	acis		_	2X (20 14)			
	t height above sea level		m	5 000			
			m	5 000			
environmental catego	-			242 201 201	2M2 (may fall baight 0.3	2 m)	
÷ .	according to IEC 60721				, 2M2 (max. fall height 0.3	· ·	
<ul> <li>during storage a</li> </ul>	ccording to IEC 60721			(sand must not	sional condensation), 1C2 get inside the devices), 1	2 (no sait mist), 182 M4	
<ul> <li>during operation</li> </ul>	• during operation according to IEC 60721			3K6 (no format	3K6 (no formation of ice, no condensation), 3C3 (no salt mis 3S2 (sand must not get into the devices), 3M6		
ambient temperature							
during operation			°C	-25 +60			
<ul> <li>during storage</li> </ul>			°C	-40 +80			
derating temperature			°C	40			
	the front according to I	EC 60529		IP20			
	he front according to IE			finger-safe, for	vertical contact from the f	front	
UL/CSA ratings	J. J			<b>3 • • • • •</b>			
vielded mechanical p	erformance [hp] for 3-ph	ase AC motor					
• at 220/230 V							
— at standard	l circuit at 50 °C rated valu	le	hp	25			
• at 460/480 V							
— at standard	l circuit at 50 °C rated valu	Je	hp	50			
contact rating of auxi	liary contacts according	to UL		B300 / R300			
Approvals Certificates							
General Product App	roval						
	~ ~	Confirmatio	<u>on</u>		ŝ	rnr	
UK CA	CE			( <b>m</b> )	(VL)	EAC	
CA	EG-Konf.				<b>Q</b>	LIIL	
					0L		
EMV		Test Certificat	es		other		
A	<u>KC</u>	Special Test Ce	ertific-	Type Test Certific-	<b>Confirmation</b>	Miscellaneous	
I I I I I I I I I I I I I I I I I I I		ate		ates/Test Report			
RCM							
Railway	Environment						
Special Test Certific-		Environmental					
ate		<u>firmations</u>					
	FPD						
Further information							
Simulation Tool for Se	oft Starters (STS)						

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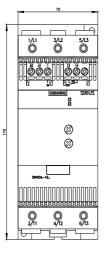
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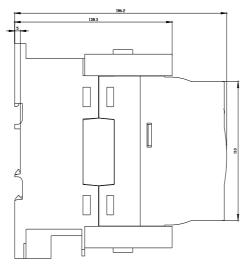
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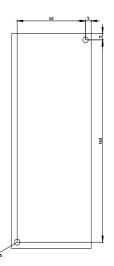
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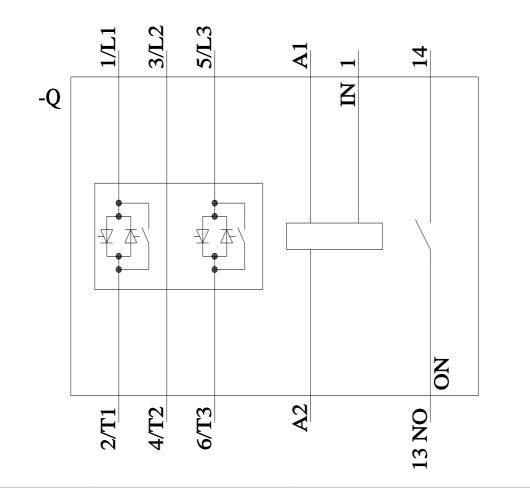
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

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