## SIEMENS

## Data sheet

## 3RW3047-1BB14



SIRIUS soft starter S3 106 A, 55 kW/400 V, 40  $^\circ\text{C}$  200-480 V AC, 110-230 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		No
motor overload protection		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
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	106
• at 50 °C rated value	А	98
• at 60 °C rated value	А	90
yielded mechanical performance for 3-phase motors		
• at 230 V		
- at standard circuit at 40 °C rated value	kW	30
• at 400 V		
— at standard circuit at 40 °C rated value	kW	55
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 $^\circ C$ rated value	hp	30
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

power loss [W] at operational current at 40 °C during operation typical	W	21	
Control circuit/ Control			
		AC/DC	
type of voltage of the control supply voltage	Hz	50	
control supply voltage frequency 1 rated value	-		
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		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	
<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		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 mm²)	
<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 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>		2.5 50 mm <sup>2</sup>	
• 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)	
• stranded		2x (10 50 mm <sup>2</sup> )	
type of connectable conductor cross-sections for AWG cables for main contacts for box terminal			
<ul> <li>using the back clamping point</li> </ul>		10 2/0	

N cable		10 2/0 2x (10 1/0) 2 x (10 50 mr		
		2 x (10 50 mr		
ıxiliary		2 x (10 50 mr		
ıxiliary			n²)	
ixiliary		2x (10 70 mm	1 <sup>2</sup> )	
		2x (0.5 2.5 m	m²)	
		2x (0.5 1.5 mm <sup>2</sup> )		
WG				
		2x (7 1/0)		
		2x (20 14)		
	m	5 000		
		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		m)
		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4		
		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6		
	°C	-25 +60		
	°C	-40 +80		
	°C	40		
529		IP20		
9		finger-safe, for v	vertical contact from the f	ront
				EMC
<b>3</b>		(Ψ	EAC	
Certificates			other	
		al Test Certific- ate	Confirmation Misce	llaneous
	29 29 20 229 20 20 20 20 20 20 20 20 20 20 20 20 20	m m % % % % % % % % % % % % % % % % % %	NG       2x (0.5 1.5 m)         NG       2x (7 1/0)         2x (20 14)       2x (20 14)         m       5 000         2K2, 2C1, 2S1,       1K6 (only occase (sand must not 3K6 (no formatia 3S2 (sand must not 3S2 (sand	Arg       2x (0.5 1.5 mm²)         Arg       2x (7 1/0)         2x (20 14)       2x (20 14)         m       5 000         2K2, 2C1, 2S1, 2M2 (max. fall height 0.3         1K6 (only occasional condensation), 1C2 (sand must not get inside the devices), 1         3K6 (no formation of ice, no condensation 3S2 (sand must not get into the devices)         °C       -25 +60         °C       -40 +80         °C       40         i29       IP20         o       finger-safe, for vertical contact from the feature         iccc       ut         iccc       40         iccc       other         iccc       other

Railway

Vibration and Shock

UL/CSA ratings		
yielded mechanical performance [hp] for 3-phase AC motor		
• at 220/230 V		
- at standard circuit at 50 °C rated value	hp	30
• at 460/480 V		
- at standard circuit at 50 °C rated value	hp	75
contact rating of auxiliary contacts according to UL		B300 / R300







