SIEMENS

Product data sheet

3RW3047-2BB04



SIRIUS SOFT STARTER, SIZE S3, 106A, 55KW/400V, 40 DEGREES, 200-480V AC, 24V AC/DC, SPRING-LOADED TERMINALS

General details:			
Product brand name		SIRIUS	
Product equipment			
 integrated bridging contact system 		Yes	
thyristors		Yes	
Product function			
intrinsic device protection		No	
motor overload protection		No	
 evaluation of thermal resistor motor protection 		No	
reset external		No	
adjustable current limitation		No	
inside-delta circuit		No	
Product component / outlet for enine brake		No	
Item designation			
according to DIN EN 61346-2		Q	
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		G	
Power Electronics:			
product designation		soft starters for standard applications	
Operating current			

• at 40 °C / rated value	А	106
• at 50 °C / rated value	А	98
• at 60 °C / rated value	А	90
Emitted mechanical power / for three-phase servomotors	_	
\bullet at 230 V / at standard switching / at 40 $^{\circ}\text{C}$		
rated value	W	30,000
\bullet at 400 V / at standard switching / at 40 $^{\circ}\text{C}$		
rated value	W	55,000
yielded mechanical performance (hp) / for three-phase squirrel cage motors / at 200/208 V / at standard circuit / at 50 °C / rated v alue	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 / with standard circuit / rated value	V	200 480
Relative negative tolerance / of the operating voltage / with standard circuit	%	-15
Relative positive tolerance / of the operating voltage / with standard circuit	%	10
Minimum load in % of I_M	%	10
Continuous operating current in % of I_e / at 40°C	%	115
Active power loss / at operating current / at 40°C / during operating phase / typical	W	21
Control electronics:		
Type of voltage / of the controlled 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 50 Hz / for AC	V	24
• at 60 Hz / for AC	V	24
Relative negative tolerance / of the control supply voltage / at 60 Hz / for AC	%	-15
Relative positive tolerance / of the control supply voltage / at 60 Hz / for AC	%	10

Relative negative tolerance / of the control supply voltage / for DC

Control supply voltage / 1 / for DC / rated value

V

%

24

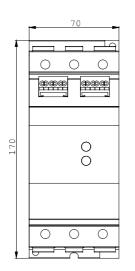
-15

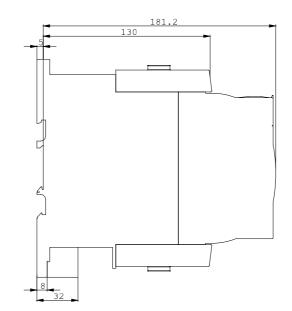
Relative positive tolerance / of the control supply voltage / for DC	%	10
Type of display / for fault signal		red
Mechanical design:		
Size of the engine control device		\$3
Width	mm	70
Height	mm	170
Depth	mm	190
Type of mounting		screw and snap-on mounting
Built in orientation		With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° tiltable to the front and back
Distance, to be maintained, to the ranks assembly		
• upwards	mm	60
• sidewards	mm	30
downwards	mm	40
Altitude of installation site / at a height over sea level	m	5,000
Cable length / maximum	m	300
Number of poles / for main current circuit		3
Electrical connections:		
Design of the electrical connection		
for main current circuit		screw-type terminals
 for auxiliary and control current circuit 		
		spring-loaded terminals
Number of NC contacts / for auxiliary contacts		spring-loaded terminals
Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts		
		0
Number of NO contacts / for auxiliary contacts		0 1
Number of NO contacts / for auxiliary contacts Number of change-over switches / for auxiliary contacts Type of the connectable conductor cross section / for main		0 1
Number of NO contacts / for auxiliary contacts Number of change-over switches / for auxiliary contacts Type of the connectable conductor cross section / for main contacts / for box terminal / when using the front clamping point		0 1 0
Number of NO contacts / for auxiliary contacts Number of change-over switches / for auxiliary contacts Type of the connectable conductor cross section / for main contacts / for box terminal / when using the front clamping point • solid • finel		0 1 0 2x (2.5 16 mm2)
Number of NO contacts / for auxiliary contacts Number of change-over switches / for auxiliary contacts Type of the connectable conductor cross section / for main contacts / for box terminal / when using the front clamping point • solid • finel y stranded / with conductor end processing • stran		0 1 0 2x (2.5 16 mm2) 2.5 35 mm2
Number of NO contacts / for auxiliary contacts Number of change-over switches / for auxiliary contacts Type of the connectable conductor cross section / for main contacts / for box terminal / when using the front clamping point • solid • finel y stranded / with conductor end processing • stran ded Type of the connectable conductor cross-section / for main contacts / for box terminal / when using the back clamping		0 1 0 2x (2.5 16 mm2) 2.5 35 mm2
Number of NO contacts / for auxiliary contacts Number of change-over switches / for auxiliary contacts Type of the connectable conductor cross section / for main contacts / for box terminal / when using the front clamping point • solid • finel y stranded / with conductor end processing • stran ded Type of the connectable conductor cross-section / for main contacts / for box terminal / when using the back clamping point		0 1 0 2x (2.5 16 mm2) 2.5 35 mm2 4 70 mm2

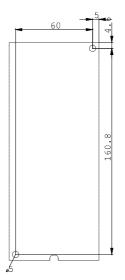
ed

Type of the connectable contacts / for box termined and the second secon				
• solid				2x (2.5 16 mm2)
 finely strande d / with conductor and 	processing			2x (2.5 35 mm2)
d / with conductor endstranded	processing			2x (10 50 mm2)
	anduator areas a	action / for AWC		2X (10 30 mm2)
Type of the connectable conductors / for main conductors /				
 when using the back amping point 	cl			10 2/0
 when using the front lamping point 	с			10 2/0
 when using both clan ng points 	npi			2x (10 1/0)
Type of the connectable lug / for main contacts	conductor cross-s	ection / for DIN cable		
 finely stranded 				2 x (10 50 mm2)
 stranded 				2x (10 70 mm2)
Type of the connectable	e conductor cross-s	ection		
• for AWG conductors	/ for main contacts			2x (7 1/0)
Type of the connectable	e conductor cross-s	ection		
 for auxiliary contacts 				
• solid	• solid			2x (0.25 2.5 mm2)
 finely stranded / with conductor end processing 				2x (0.25 1.5 mm2)
for AWG conductors / for auxiliary contacts			2x (24 14)	
Ambient conditions:				
Ambient temperature				
 during operating 			°C	-25 60
 during storage 			°C	-40 80
Derating temperature			°C	40
Protection class IP				IP00
Certificates/approval	S:			
General Product Appro	oval			Test Certificates
CQC	(SA)	ROSTEST		Manufacturer
Shipping Approval		other		
우 &		Manufacturer		
	GL			

UL/CSA ratings			
yielded mechanical performance (hp) / for three-phase squirrel cage motors			
• at 220/230 V / at standard circuit			
• at 50 °C / rated v alue	hp	30	
• at 460/480 V / at standard circuit			
• at 50 °C / rated v alue	hp	75	
Further information:			
Information- and Downloadcenter (Catalogs, Brochures,) http://www.siemens.com/industrial-controls/catalogs			
Industry Mall (Online ordering system) http://www.siemens.com/industrial-controls/mall			
CAx-Online-Generator http://www.siemens.com/cax			
Service&Support (Manuals, Certificates, Characteristics, FAQs,) http://support.automation.siemens.com/WW/view/en/3RW3047-2BB04/all			
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RW3047-2BB04			







last change:

Aug 22, 2011