SIEMENS

Product data sheet 3RW3046-1BB14



SIRIUS SOFT STARTER, SIZE S3, 80A, 45KW/400V, 40 DEGREES, 200-480V AC, 110-230V AC/DC, SCREW 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

Operating current

Power Electronics: product designation

soft starters for standard applications

• at 40 °C / rated value	Α	80
• at 50 °C / rated value	Α	73
• at 60 °C / rated value	Α	66
Emitted mechanical power / for three-phase servomotors		
• at 230 V / at standard switching / at 40 °C		
• rated value	W	22,000
• at 400 V / at standard switching / at 40 °C		
• rated value	W	45,000
yielded mechanical performance (hp) / for three-phase squirrel cage motors / at 200/208 V / at standard circuit / at 50 $^{\circ}$ C / rated v alue	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 / 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	12

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	110 230
Control supply voltage / 1 / at 60 Hz / for AC	V	110 230
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
Control supply voltage / 1 / for DC	V	110 230
Relative negative tolerance / of the control supply voltage / for DC	%	-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		S3
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	screw-type terminals
Number of NC contacts / for auxiliary contacts	0
Number of NO contacts / for auxiliary contacts	1
Number of change-over switches / for auxiliary contacts	0
Type of the connectable conductor cross section / for main contacts / for box terminal / when using the front clamping point	
• solid	2x (2.5 16 mm2)
finely stranded / with conductor end processing	2.5 35 mm2
• stranded	4 70 mm2
Type of the connectable conductor cross-section / for main contacts / for box terminal / when using the back clamping point	
• solid	2x (2.5 16 mm2)
• finely stranded / with conductor end processing	2.5 50 mm2
• stranded	10 70 mm2
Type of the connectable conductor cross-section / for main contacts / for box terminal / when using both clamping points	
• solid	2x (2.5 16 mm2)
• finely stranded / with conductor end processing	2x (2.5 35 mm2)

• stranded	2x (10 50 mm2)
Type of the connectable conductor cross-section / for AWG conductors / for main contacts / for box terminal	
 when using the back cl amping point 	10 2/0
 when using the front c lamping point 	10 2/0
 when using both clampi ng points 	2x (10 1/0)
Type of the connectable conductor cross-section / for DIN cable lug / for main contacts	
• finely stranded	2 x (10 50 mm2)
• stranded	2x (10 70 mm2)
Type of the connectable conductor cross-section	
• for AWG conductors / for main contacts	2x (7 1/0)
Type of the connectable conductor cross-section	
for auxiliary contacts	
• solid	2x (0.5 2.5 mm2)
 finely stranded / with conductor end processing 	2x (0.5 1.5 mm2)
• for AWG conductors / for auxiliary contacts	2x (20 14)

Ambient conditions:		
Ambient temperature		
during operating	°C	-25 60
during storage	°C	-40 80
Derating temperature	°C	40
Protection class IP		IP00

Certificates/approvals:

General Product Approval Test Certificates





ROSTEST



Manufacturer

Shipping Approval





Manufacturer

other

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	hp	25
alue		
• at 460/480 V / at standard circuit		
• at 50 °C / rated v	hp	50
alue		

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

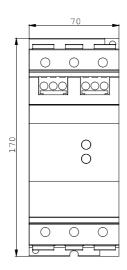
http://www.siemens.com/cax

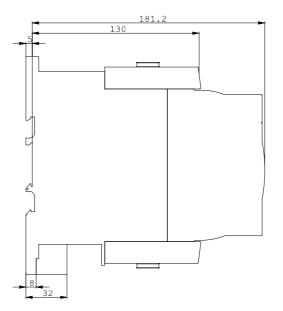
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

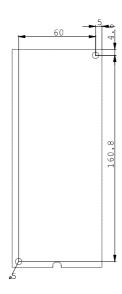
http://support.automation.siemens.com/WW/view/en/3RW3046-1BB14/all

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RW3046-1BB14}$







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