# **SIEMENS**

Product data sheet 3RW3046-2BB04



SIRIUS SOFT STARTER, SIZE S3, 80A, 45KW/400V, 40 DEGREES, 200-480V AC, 24V AC/DC, SPRING-LOADED TERMINALS

General details:		
product brand name		SIRIUS
Product feature		
• integrated bypass contact system		Yes
• Thyristors		Yes
Product function		
Intrinsic device protection		No
motor overload protection		No
Evaluation of thermistor motor protection		No
External reset		No
Adjustable current limitation		No
• inside-delta circuit		No
Product component / Motor brake output		No
Reference code		
• acc. to DIN EN 61346-2		Q
<ul> <li>acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750</li> </ul>		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
Mechanical power output / for three-phase motors		
• at 230 V / at standard circuit / at 40 °C		
Rated value	W	22,000
• at 400 V / at standard circuit / at 40 °C		
Rated value	W	45,000
yielded mechanical performance [hp] / for three-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 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 operation / typical	W	12

Control electronics:		
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		
• with AC / at 50 Hz	V	24
• with AC / at 60 Hz	V	24
Relative negative tolerance / of the control supply voltage / with AC / at 60 Hz	%	-15
Relative positive tolerance / of the control supply voltage / with AC / at 60 Hz $$	%	10
Control supply voltage / 1 / for DC / Rated value	V	24
Relative negative tolerance / of the control supply voltage / for DC	%	-15

Relative positive tolerance / of the control supply voltage / for DC	%	10
Display version / for fault signal		red

Mechanical design:		
Size of engine control device		S3
Width	mm	70
Height	mm	170
Depth	mm	190
Mounting type		screw and snap-on mounting
mounting position		With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° tiltable to the front and back
Spacing required		
with side-by-side mounting	mm	60
with side-by-side mounting	mm	30
with side-by-side mounting	mm	40
Installation altitude / at height above 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
<ul> <li>for auxiliary and control current circuit</li> </ul>	spring-loaded 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-section / for main contacts / for box terminal / using the front clamping point	
• solid	2x (2.5 16 mm²)
• finely stranded / with core end processing	2.5 35 mm²
• stranded	4 70 mm²
Type of connectable conductor cross-section / for main contacts / for box terminal / using the back clamping point	
• solid	2x (2.5 16 mm²)
• finely stranded / with core end processing	2.5 50 mm²
• stranded	10 70 mm²
Type of connectable conductor cross-section / for main contacts / for box terminal / using both clamping points	
• solid	2x (2.5 16 mm²)
• finely stranded / with core end processing	2x (2.5 35 mm²)

2x (10 50 mm²)
10 2/0
10 2/0
2x (10 1/0)
2 x (10 50 mm²)
2x (10 70 mm²)
2x (7 1/0)
2x (0.25 2.5 mm²)
2x (0.25 1.5 mm²)
2x (24 14)

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

# **Certificates/approvals:**

## **General Product Approval**

EAC





**EMC** 

Test Certificates

Type Test

Certificates/Test
Report

# other

Declaration of Conformity

other

Environmental Confirmations

# yielded mechanical performance [hp] / for three-phase AC motor • at 220/230 V / at standard circuit • at 50 °C / Rated value • at 460/480 V / at standard circuit • at 50 °C / Rated value hp 50 Contact rating / of the auxiliary contacts / acc. to UL B300 / R300

## 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**

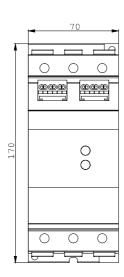
http://www.siemens.com/cax

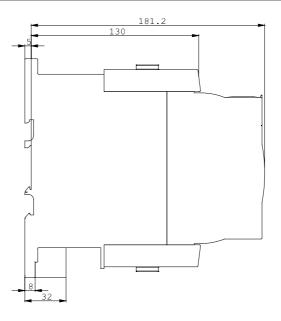
## Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

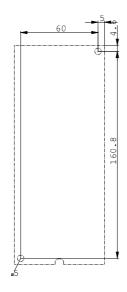
http://support.automation.siemens.com/WW/view/en/3RW3046-2BB04/all

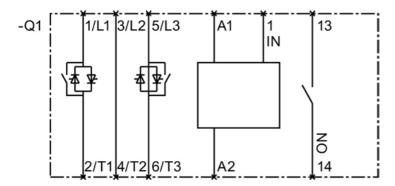
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RW3046-2BB04









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