## **SIEMENS**

Product data sheet 3RW4074-6BB44



SIRIUS SOFT STARTER, S12, 280 A, 160 KW/400 V, 40 DEG., 200-460 V AC, 230 V AC, SCREW TERMINALS

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

Operating current

Power Electronics:
Product designation

soft starters for standard applications

• at 40 °C / rated value	Α	280
• at 50 °C / rated value	Α	248
• at 60 °C / rated value	Α	215
Emitted mechanical power / for three-phase servomotors		
• at 230 V / at standard switching / at 40 °C		
• rated value	W	90,000
• at 400 V / at standard switching / at 40 °C		
• rated value	W	160,000
yielded mechanical performance (hp) / for three-phase squirrel cage motors / at 200/208 V / at standard circuit / at 50 °C / rated value	hp	75
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	200 460
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	%	20
Adjustable rated current / of the motor / for motor overload protection / minimum	А	130
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	90

Control electronics:		
Type of voltage / of the controlled supply voltage		AC
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	230
• at 60 Hz / for AC	V	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
Type of display / for fault signal		red

Mechanical design:		040	
Size of the engine control device		S12	
Width	mm	160	
Height	mm	230	
Depth	mm	278	
Type of mounting		screw fixing	
mounting position		With additional fan: With vertical mounting surface +/90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back Without additional fan: With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/-10° t	
Distance, to be maintained, to the ranks assembly			
• upwards	mm	100	
• sidewards	mm	5	
• downwards	mm	75	
Installation altitude / 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		busbar connection	
for auxiliary and control current circuit		screw-type terminals	
Number of NC contacts / for auxiliary contacts		0	
Number of NO contacts / for auxiliary contacts		2	
Number of changeover contacts / for auxiliary contacts		1	
Type of the connectable conductor cross-section / for main contacts / for box terminal / when using the front clamping point			
finely stranded / with conductor end processing		70 240 mm²	
finely stranded / without conductor end processing		70 240 mm²	
• stranded		95 300 mm2	
Type of the connectable conductor cross-section / for main contacts / for box terminal / when using the back clamping point			

0
2
1
70 240 mm²
70 240 mm²
95 300 mm2
120 185 mm²
120 185 mm²
120 240 mm2
min. 2x 50 mm², max. 2x 185 mm²
min. 2x 50 mm², max. 2x 185 mm²

• stranded		max. 2x 70 mm2, max. 2x 240 mm2		
Type of the connectable conductor cross-section / for AWG conductors / for main contacts / for box terminal				
when using the back cl		250 500 kcmil		
when using the front c		3/0 600 kcmil		
when using both clampi		min. 2x 2/0, max. 2x 500 kcmil		
Type of the connectable conductor cross-section / for DIN cable lug / for main contacts				
• finely stranded		50 240 mm2		
• stranded		70 240 mm2		
Type of the connectable conductor cross-section				
• for AWG conductors / for main contacts		2/0 500 kcmil		
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)		
• finely stranded / with wire end proc		2x (20 16)		
Ambient conditions:				
Ambient temperature				
during operating	°C	-25 +60		
during storage	°C	-40 <b>+</b> 80		
Derating temperature	°C	40		
Protection class IP		IP00		
Certificates/approvals:				
General Product Approval		EMC	For use in hazardous locations	
		C-TICK	(Ex)	
Test Certificates Shipping Approval		other		
Special Test Certificate  GL  GL	Lloyd's Register LRS	Declaration of Conformity	Environmental Confirmations	
UL/CSA ratings				

at 220/230 V / at standard circuit
 at 50 °C / rated value

hp

100

• at 460/480 V / at standard circuit

• at 50 °C / rated value hp 200

Contact rating designation / for auxiliary contacts / according 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** 

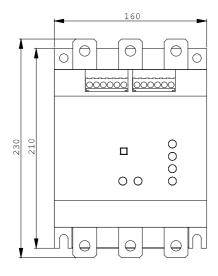
http://www.siemens.com/cax

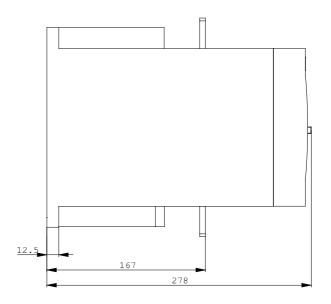
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

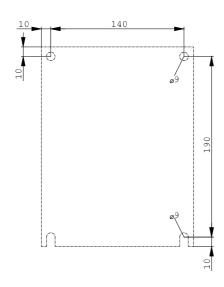
http://support.automation.siemens.com/WW/view/en/3RW4074-6BB44/all

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RW4074-6BB44









last change: Dec 2, 2013