SIEMENS

Product data sheet 3RW4024-1BB14



SIRIUS SOFT STARTER, S0, 12.5A, 5.5KW/400V, 40 DEGR., AC 200-480V, AC/DC 110-230V, 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
 evaluation of thermal resistor motor protection 		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
 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	12.5
• at 50 °C / rated value	Α	11
• at 60 °C / rated value	Α	10
Emitted mechanical power / for three-phase servomotors		
• at 230 V / at standard switching / at 40 °C		
• rated value	W	3,000
\bullet at 400 V / at standard switching / at 40 °C		
• rated value	W	5,500
yielded mechanical performance (hp) / for three-phase squirrel cage motors / at 200/208 V / at standard circuit / at 50 $^{\circ}$ C / rated value	hp	3
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	%	20
Adjustable rated current / of the motor / for motor overload protection / minimum	А	5
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	2

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		S0
Width	mm	45
Height	mm	125
Depth	mm	155
Type of mounting		screw and snap-on mounting
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	60
• sidewards	mm	15
• downwards	mm	40
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	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	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	
• solid	2x (1.5 2.5 mm2), 2x (2.5 6 mm2), max. 1x 10 mm2
finely stranded / with conductor end processing	2x (1.5 2.5 mm²), 2x (2.5 6 mm²)
Type of the connectable conductor cross-section / for AWG conductors / for main contacts / for box terminal	
when using the front c	1x 8, 2x (16 10)
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 + 80
Derating temperature	°C	40
Protection class IP		IP20

Certificates/approvals:

General Product Approval

EMC

For use in hazardous locations













Test Certificates

Shipping Approval

Type Test
Certificates/Test
Report









other

Declaration of Conformity

Environmental Confirmations

UL/CSA ratings

yielded mechanical performance (hp) / for three-phase squirrel cage motors

• at 220/230 V / at standard circuit

• at 50 °C / rated value

• at 460/480 V / at standard circuit

• at 50 °C / rated value

Contact rating designation / for auxiliary contacts / according to UL

hp 3

.

hp 7.5

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

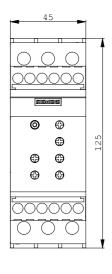
http://www.siemens.com/cax

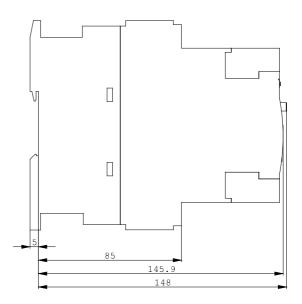
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RW4024-1BB14/all

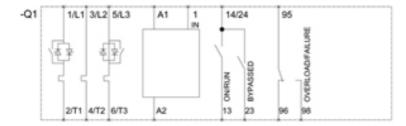
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RW4024-1BB14









last change: Oct 28, 2013