SIEMENS

Product data sheet

3RW4424-3BC44



SIRIUS SOFT STARTER, VALUES WITH 400 V, 40 DEG., STANDARD: 47A, 22KW, INSIDE-DELTA CIRCUIT 3: 81A, 45KW, 200-460 V AC, 230 V AC, CAGE CLAMP TERMINALS

Conora	I deteller
Genera	I details:

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 	Yes
reset external	Yes
adjustable current limitation	Yes
inside-delta circuit	Yes
Product component / outlet for enine brake	Yes
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 high feature applications

Operating current

• at 40 °C / rated value	А	47
• at 50 °C / rated value	А	42
• at 60 °C / rated value	А	37
• for three-phase servomotors / at 3-phase root switching		
• at 40 °C / rated value	А	81
• at 50 °C / rated value	А	73
• at 60 °C / rated value	А	64
Emitted mechanical power / for three-phase servomotors	_	
• at 230 V / at standard switching / at 40 °C		
rated value	W	11,000
• at 400 V / at standard switching / at 40 °C		
rated value	W	22,000
\bullet at 230 V / at 3-phase root switching / at 40 $^{\circ}\text{C}$		
rated value	W	22,000
• at 400 V / at 3-phase root 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 °C / rated v	hp	10
alue		
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
Operating voltage / at 3-phase root switching / rated value	V	200 460
Relative negative tolerance / of the operating voltage / with inside-delta circuit	%	-15
Relative positive tolerance / of the operating voltage / with inside-delta circuit	%	10
Minimum load in % of I_M	%	8
Adjustable rated current / of the motor / for motor overload protection / minimum	A	9
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	32
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		Display

Mechanical design:		
Width	mm	170
Height	mm	192
Depth	mm	270
Type of mounting		screw fixing
Built in orientation		bei senkrechter Montageebene +/-90° drehbar, bei senkrechter Montageebene +/- 22,5° nach vorne und hinten kippbar
Distance, to be maintained, to the ranks assembly		
• upwards	mm	100
sidewards	mm	5
• downwards	mm	75
Altitude of installation site / at a height over sea level	m	5,000
Cable length / maximum	m	500
Number of poles / for main current circuit		3

Electrical connections

Design of the electrical connection	
for main current circuit	box terminals
 for auxiliary and control current circuit 	spring-loaded terminals
Number of NC contacts / for auxiliary contacts	0
Number of NO contacts / for auxiliary contacts	3
Number of change-over switches / for auxiliary contacts	1
Type of the connectable conductor cross section / for main contacts / for box terminal / when using the front clamping point	
• solid	2.5 16 mm²
 finely stranded / with conductor end processing 	2.5 35 mm²
 finely stranded / without conductor end processing 	4 50 mm ²

• stranded		4 70 mm²
Type of the connectable conductor cross-section / for main contacts / for box terminal / when using the back clamping point	_	
• solid		2,5 16 mm²
 finely stranded / with conductor end processing 		2.5 50 mm²
 without conductor final cutting / without conductor end processing 		10 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)
 without conductor final cutting / without conductor end processing 		2x (4 35 mm²)
• stranded		2x (4 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 auxiliary contacts		
• solid		2x (0.25 1.5 mm²)
 finely stranded / with conductor end processing 		2x (0.25 1.5 mm²)
 for AWG conductors / for auxiliary contacts 		2x (24 16)
Ambient conditions:		
Ambient temperature		
during operating	/ °C	60
during storage	°C	-25 80
Derating temperature	°C	40
Protection class IP		IP00
Certificates/approvals:		

General Product Approval			Test Certificates	
cqc CSA	ROSTEST		Manufacturer	
Shipping Approval			other	
BUREAU VERITAS	GL	PRS	<u>Manufacturer</u>	
JL/CSA ratings rielded mechanical performance (hp) / f	or three-phase squirre	1		
age motors				
• at 220/230 V / at standard circuit				
• at 50 °C / rated v alue		hp	15	
• at 460/480 V / at standard circuit				
• at 50 °C / rated v alue		hp	25	
• at 200/208 V / at inside-delta circuit / a ed value	t 50 °C / rat	hp	20	
• at 220/230 V / at inside-delta circuit / a ed value	t 50 °C / rat	hp	25	
• at 460/480 V / at inside-delta circuit / a ed value	t 50 °C / rat	hp	50	
Further information:				

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system) http://www.siemens.com/industrial-controls/mall

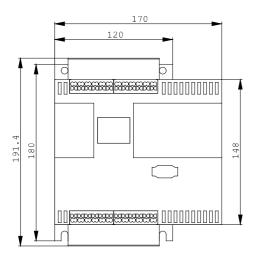
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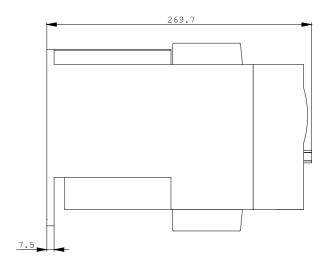
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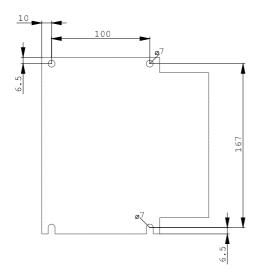
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RW4424-3BC44/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RW4424-3BC44







last change:

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