SIEMENS

Data sheet

3RW44 22-3BC44



SIRIUS soft starter Values at 400 V, 40 $^\circ$ C Standard: 29 A, 15 kW Inside-delta: 50 A, 22 kW 200-460 V AC, 230 V AC spring-type terminals

General technical data			
Product brand name	SIRIUS		
Product feature			
 integrated bypass contact system 	Yes		
Thyristors	Yes		
Product function			
 Intrinsic device protection 	Yes		
 motor overload protection 	Yes		
 Evaluation of thermistor motor protection 	Yes		
External reset	Yes		
 Adjustable current limitation 	Yes		
• inside-delta circuit	Yes		
Product component Motor brake output	Yes		
Reference identifier acc. to DIN EN 61346-2	Q		
Reference indentifier acc. to DIN 40719 extended	G		
according to IEC 204-2 acc. to IEC 750			
Power Electronics			
Product designation	Soft starter		

Operating current		
• at 40 °C rated value	А	29
• at 50 °C rated value	А	26
● at 60 °C rated value	А	23
Operating current for three-phase motors at inside-		
delta circuit		
• at 40 °C rated value	А	50
• at 50 °C rated value	А	45
• at 60 °C rated value	А	40
Mechanical power output for three-phase motors		
● at 230 V		
— at standard circuit at 40 °C rated value	W	5 500
— at inside-delta circuit at 40 °C rated value	W	15 000
• at 400 V		
— at standard circuit at 40 °C rated value	W	15 000
— at inside-delta circuit at 40 °C rated value	W	22 000
Yielded mechanical performance [hp] for three-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	7.5
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	200 460
Relative negative tolerance of the operating voltage at standard circuit	%	-15
Relative positive tolerance of the operating voltage at standard circuit	%	10
Operating voltage at inside-delta circuit rated value	V	200 460
Relative negative tolerance of the operating voltage at inside-delta circuit	%	-15
Relative positive tolerance of the operating voltage at inside-delta circuit	%	10
Minimum load [%]	%	8
Adjustable motor current for motor overload protection minimum rated value	A	5
Continuous operating current [% of le] at 40 °C	%	115
Power loss [W] at operating current at 40 °C during operation typical	W	8
Control electronics		
Type of voltage of the control 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 AC		
• at 50 Hz rated value	V	230
• at 60 Hz rated value	V	230
Relative negative tolerance of the control supply voltage at AC at 60 Hz	%	-15
Relative positive tolerance of the control supply voltage at AC at 60 Hz	%	10
Display version for fault signal		Display

Mechanical data		
Width	mm	170
Height	mm	192
Depth	mm	270
Mounting type	-	screw fixing
Mounting position		with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
Required spacing with side-by-side mounting		
• upwards	mm	100
• at the side	mm	5
downwards	mm	75
Wire length maximum	m	500
Number of poles for main current circuit		3

Connections/Terminals	
Type of electrical connection	
• for main current circuit	box terminal
 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 CO contacts for auxiliary contacts	1
Type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point	
• solid	2.5 16 mm ²
 finely stranded with core end processing 	2.5 35 mm ²
 finely stranded without core end processing 	4 50 mm²
• stranded	4 70 mm²
Type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point	

• solid		2,5 16 mm²
 finely stranded with core end processing 		2.5 50 mm²
 finely stranded without core end processing 		10 50 mm²
• stranded		10 70 mm²
Type of connectable conductor cross-sections 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)
 finely stranded without core end processing 		2x (4 35 mm²)
• stranded		2x (4 50 mm²)
Type of connectable conductor cross-sections at AWG conductors for main contacts for box terminal		
 using the back clamping point 		10 2/0
 using the front clamping point 		10 2/0
 using both clamping points 		2x (10 1/0)
Type of connectable conductor cross-sections for auxiliary contacts	-	
• solid		2x (0.25 1.5 mm²)
 finely stranded with core end processing 		2x (0.25 1.5 mm²)
Type of connectable conductor cross-sections at AWG conductors		
 for auxiliary contacts 		2x (24 16)
Ambient conditions		
Installation altitude at height above sea level	m	5 000
Environmental category		
 during transport acc. to IEC 60721 		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
 during storage acc. to IEC 60721 		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
 during operation acc. to IEC 60721 		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
Ambient temperature		
 during operation 	°C	60
 during storage 	°C	-25 +80
Derating temperature	°C	40
Protection class IP		IP00
Certificates/approvals		

General Produc	t Approval			EMC	Declaration of Conformity
	CSA		EHC	C-Tick	EG-Konf.
Test Certificates	3	Shipping Approval			
Special Test Certi- ficate	Type Test Certific- ates/Test Report	SHICAN BURE	SAU VER		A CONTRACTOR

Confirmation

JL/CSA ratings			
Yielded mechanical performance [hp] for three-phase			
AC motor			
● at 200/208 V			
— at inside-delta circuit at 50 °C rated value	hp	10	
● at 220/230 V			
— at standard circuit at 50 °C rated value	hp	7.5	
— at inside-delta circuit at 50 °C rated value	hp	15	
● at 460/480 V			
— at standard circuit at 50 °C rated value	hp	15	
— at inside-delta circuit at 50 °C rated value	hp	30	
Contact rating of auxiliary contacts according to UL		B300 / R300	

Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

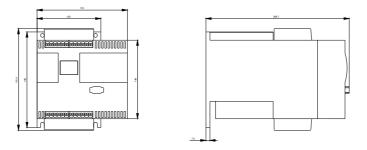
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4422-3BC44

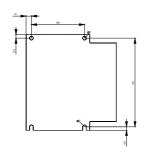
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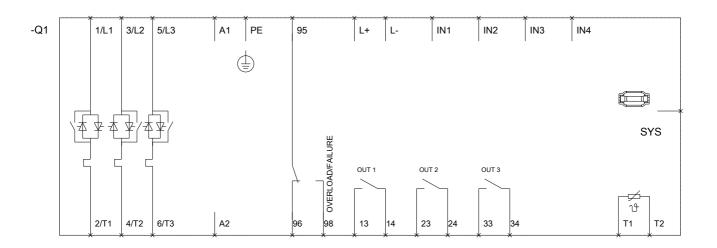
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4422-3BC44

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4422-3BC44

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4422-3BC44&lang=en







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