SIEMENS

Data sheet 3RW4424-3BC44



SIRIUS soft starter Values at 400 V, 40 °C standard: 47 A, 22 kW Inside-delta: 81 A, 45 kW 200-460 V AC, 230 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5524-3HA14<<

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
insulation voltage rated value	V	690
degree of pollution		3, acc. to IEC 60947-4-2
reference code according to EN 61346-2		Q
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750		G
Power Electronics		
product designation		Soft starter
operational current		
 at 40 °C rated value 	Α	47
 at 50 °C rated value 	Α	42
at 60 °C rated value	А	37
operational current for 3-phase motors at inside-delta circuit		
 at 40 °C rated value 	Α	81
 at 50 °C rated value 	Α	73
at 60 °C rated value	Α	64
yielded mechanical performance for 3-phase motors		
• at 230 V		
 — at standard circuit at 40 °C rated value 	kW	11
 — at inside-delta circuit at 40 °C rated value 	kW	22
• at 400 V		
 — at standard circuit at 40 °C rated value 	kW	22
— at inside-delta circuit at 40 °C rated value	kW	45
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	10
operating frequency rated value	Hz	50 60
relative negative tolerance of the operating frequency	%	-10
relative positive tolerance of the operating frequency	%	10

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type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point • solid • finely stranded with core end processing • finely stranded without core end processing • stranded • stranded type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point	height depth fastening method mounting position required spacing with side-by-side mounting	mm mm mm mm	270 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 100 5 75 500 3 box terminal spring-loaded terminals 0
 finely stranded with core end processing finely stranded without core end processing stranded 4 50 mm² stranded 4 70 mm² type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point 	height depth fastening method mounting position required spacing with side-by-side mounting	mm mm mm mm	270 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 100 5 75 500 3 box terminal spring-loaded terminals 0 3
• finely stranded without core end processing • stranded • stranded • stronded • strond	height depth fastening method mounting position required spacing with side-by-side mounting	mm mm mm mm	270 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 100 5 75 500 3 box terminal spring-loaded terminals 0 3
• stranded 4 70 mm² type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point	height depth fastening method mounting position required spacing with side-by-side mounting	mm mm mm mm	270 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 100 5 75 500 3 box terminal spring-loaded terminals 0 3 1
• stranded 4 70 mm² type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point	height depth fastening method mounting position required spacing with side-by-side mounting	mm mm mm mm	270 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 100 5 75 500 3 box terminal spring-loaded terminals 0 3 1
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point	height depth fastening method mounting position required spacing with side-by-side mounting	mm mm mm mm	270 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 100 5 75 500 3 box terminal spring-loaded terminals 0 3 1 2.5 16 mm² 2.5 35 mm²
• solid 2,5 16 mm²	height depth fastening method mounting position required spacing with side-by-side mounting	mm mm mm mm	270 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 100 5 75 500 3 box terminal spring-loaded terminals 0 3 1 2.5 16 mm² 2.5 35 mm² 4 50 mm²
	height depth fastening method mounting position required spacing with side-by-side mounting	mm mm mm mm	screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 100 5 75 500 3 box terminal spring-loaded terminals 0 3 1 2.5 16 mm² 2.5 35 mm² 4 50 mm² 4 70 mm²

a finally atranded with care and processing		2.5 50 mm²
finely stranded with core end processing		2.5 50 mm ²
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 for AWG cables 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 for AWG cables		
 for auxiliary contacts 		2x (24 16)
Ambient conditions		
installation altitude at height above sea level	m	5 000
environmental category		
 during transport according to IEC 60721 		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
 during storage according to IEC 60721 		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
during operation according 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 on the front according to IEC 60529		IP20
touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front
UL/CSA ratings		
yielded mechanical performance [hp] for 3-phase AC motor		
• at 200/208 V	b :-	20
— at inside-delta circuit at 50 °C rated value	hp	20
• at 220/230 V	b =	15
— at standard circuit at 50 °C rated value	hp	15
— at inside-delta circuit at 50 °C rated value	hp	25
at 460/480 V at standard circuit at 50 °C rated value.	h =	25
— at standard circuit at 50 °C rated value	hp	25
— at inside-delta circuit at 50 °C rated value	hp	50
contact rating of auxiliary contacts according to UL		B300 / R300
Approvals Certificates		

General Product Approval



Confirmation









General Product Approval

EMV

Test Certificates

Marine / Shipping





<u>KC</u>

Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping other Environment









Confirmation

Environmental Confirmations

Further information

Simulation Tool for Soft Starters (STS)

https://support.industry.siemens.com/cs/ww/en/view/101494917

Information on the packaging

stry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

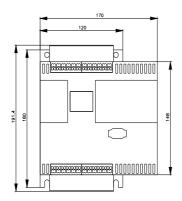
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4424-3BC44

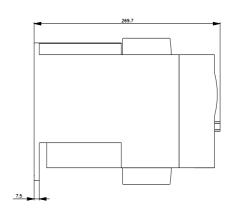
Cax online generator

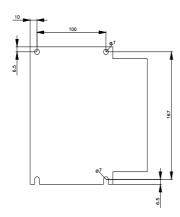
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4424-3BC44

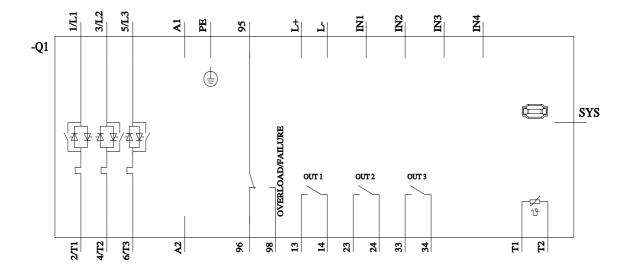
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4424-3BC44

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









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