SIEMENS

Data sheet 3RW4434-6BC45



SIRIUS soft starter Values at 500 V, 40 °C standard: 113 A, 75 kW Inside-delta: 196 A, 132 kW 400-600 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5534-6HA16<<

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	113		
 at 50 °C rated value 	Α	100		
 at 60 °C rated value 	Α	88		
operational current for 3-phase motors at inside-delta circuit				
 at 40 °C rated value 	Α	196		
 at 50 °C rated value 	Α	173		
 at 60 °C rated value 	Α	152		
yielded mechanical performance for 3-phase motors ● at 400 V				
 at standard circuit at 40 °C rated value 	kW	55		
 at inside-delta circuit at 40 °C rated value 	kW	110		
● at 500 V				
 at standard circuit at 40 °C rated value 	kW	75		
 at inside-delta circuit at 40 °C rated value 	kW	132		
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	400 600		
relative negative tolerance of the operating voltage at standard circuit	%	-15		

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 stranded type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point finely stranded with core end processing finely stranded without core end processing 16 70 mm² 16 70 mm² 	height depth fastening method mounting position required spacing with side-by-side mounting	mm mm	200 270 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 busbar connection screw-type terminals 0 3 1
main contacts for box terminal using the back clamping point • finely stranded with core end processing • finely stranded without core end processing 16 70 mm² 16 70 mm²	height depth fastening method mounting position required spacing with side-by-side mounting	mm mm	200 270 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 busbar connection screw-type terminals 0 3 1
 finely stranded with core end processing finely stranded without core end processing 16 70 mm² 16 70 mm² 	height depth fastening method mounting position required spacing with side-by-side mounting	mm mm	200 270 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 busbar connection screw-type terminals 0 3 1 16 70 mm² 16 70 mm²
• finely stranded without core end processing 16 70 mm²	height depth fastening method mounting position required spacing with side-by-side mounting	mm mm	200 270 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 busbar connection screw-type terminals 0 3 1 16 70 mm² 16 70 mm²
3	height depth fastening method mounting position required spacing with side-by-side mounting	mm mm	200 270 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 busbar connection screw-type terminals 0 3 1 16 70 mm² 16 70 mm² 16 70 mm²
	height depth fastening method mounting position required spacing with side-by-side mounting	mm mm	200 270 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 busbar connection screw-type terminals 0 3 1 16 70 mm² 16 70 mm² 16 70 mm²

type of connectable conductor cross-sections for main contacts for box terminal using both clamping points

- finely stranded with core end processing
- finely stranded without core end processing
- stranded

type of connectable conductor cross-sections at AWG cables for main contacts for box terminal

- using the back clamping point
- using the front clamping point
- · using both clamping points

type of connectable conductor cross-sections for DIN cable lug for main contacts

- finely stranded
- stranded

type of connectable conductor cross-sections for auxiliary contacts

- solid
- finely stranded with core end processing

type of connectable conductor cross-sections at AWG cables

- for main contacts
- for auxiliary contacts
- for auxiliary contacts finely stranded with core end processing

max. 1x 50 mm², 1x 70 mm² max. 1x 50 mm², 1x 70 mm² max. 2x 70 mm²

6 ... 2/0 6 ... 2/0

max. 2x 1/0

16 ... 95 mm² 25 ... 120 mm²

2x (0.5 ... 2.5 mm²) 2x (0.5 ... 1.5 mm²)

4 ... 250 kcmil 2x (20 ... 14) 2x (20 ... 16)

Ambient conditions

installation altitude at height above sea level environmental category

- during transport according to IEC 60721
- during storage according to IEC 60721
- during operation according to IEC 60721

ambient temperature

- during operation
- during storage

derating temperature

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529

m 5 000

2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)

1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4

3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6

- °C 60
- °C -25 ... +80
- °C 40

IP00; IP20 with box terminal/cover

finger-safe, for vertical contact from the front with box terminal/cover

Certificates/ approvals

General Product Approval







Confirmation







Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping

other







Confirmation

UL/CSA ratings		
yielded mechanical performance [hp] for 3-phase AC motor		
• at 460/480 V		
 at standard circuit at 50 °C rated value 	hp	75
 at inside-delta circuit at 50 °C rated value 	hp	125
• at 575/600 V		
 at standard circuit at 50 °C rated value 	hp	75
 at inside-delta circuit at 50 °C rated value 	hp	150
contact rating of auxiliary contacts according to UL		B300 / R300

Further information

Simulation Tool for Soft Starters (STS)

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

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4434-6BC45}$

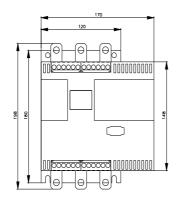
Cax online generator

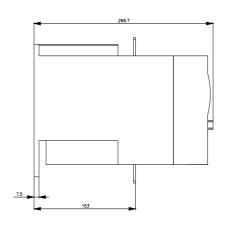
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4434-6BC45

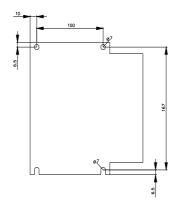
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

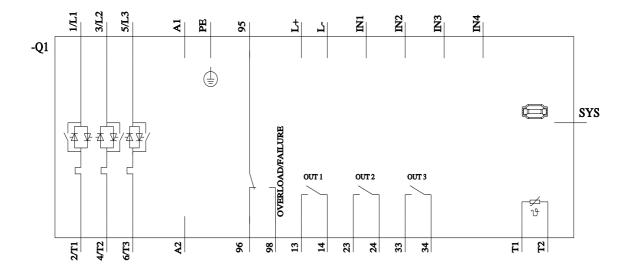
https://support.industry.siemens.com/cs/ww/en/ps/3RW4434-6BC45

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4434-6BC45&lang=en









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