SIEMENS



Data sheet 3RW4443-6BC45



SIRIUS soft starter Values at 500 V, 40 °C standard: 203 A, 132 kW Inside-delta: 352 A, 250 kW 400-600 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5543-6HA16<<

General technical data	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	203		
 at 50 °C rated value 	Α	180		
at 60 °C rated value	Α	156		
operational current for 3-phase motors at inside-delta circuit				
 at 40 °C rated value 	Α	352		
• at 50 °C rated value	Α	312		
at 60 °C rated value	Α	270		
yielded mechanical performance for 3-phase motors				
● at 400 V				
 at standard circuit at 40 °C rated value 	kW	110		
 — at inside-delta circuit at 40 °C rated value 	kW	200		
● at 500 V				
 — at standard circuit at 40 °C rated value 	kW	132		
— at inside-delta circuit at 40 °C rated value	kW	250		
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		

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Mechanical data width mm 210	
width mm 210	
height mm 230	
depth mm 298	
fastening method screw fixing	
mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the from back	t and
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 busbar connection	
• for auxiliary and control circuit screw-type terminals	
number of NC contacts for auxiliary contacts 0	
number of NO contacts for auxiliary contacts 3	
number of CO contacts for auxiliary contacts	
type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point	
• finely stranded with core end processing 70 240 mm²	
• finely stranded without core end processing 70 240 mm²	
• stranded 95 300 mm²	
type of connectable conductor cross-sections for main contacts for box terminal using the back	

clamping point		dientudena
 finely stranded with core end processing 		120 m² dientudong
 finely stranded without core end processing 		120.1 m^2 unoncurrent
stranded		120 2 m ²
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		
 finely stranded with core end processing 		min. 2x 50 mm², max. 2x 185 mm²
 finely stranded without core end processing 		min. 2x 50 mm², max. 2x 185 mm²
• stranded		max. 2x 70 mm², max. 2x 240 mm²
type of connectable conductor cross-sections at AWG cables for main contacts for box terminal		
 using the back clamping point 		250 500 kcmil
 using the front clamping point 		3/0 600 kcmil
using both clamping points		min. 2x 2/0, max. 2x 500 kcmil
type of connectable conductor cross-sections for DIN cable lug for main contacts		
 finely stranded 		50 240 mm²
• stranded		70 240 mm²
type of connectable conductor cross-sections for auxiliary contacts		
• solid		2x (0.5 2.5 mm²)
 finely stranded with core end processing 		2x (0.5 1.5 mm²)
type of connectable conductor cross-sections at AWG cables		
 for main contacts 		2/0 500 kcmil
 for auxiliary contacts 		2x (20 14)
 for auxiliary contacts finely stranded with core end processing 		2x (20 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		IP00; IP20 with box terminal/cover
touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front with box terminal/cover

Certificates/ approvals

General Product Approval

EMC



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	125
 at inside-delta circuit at 50 °C rated value 	hp	250
● at 575/600 V		
 at standard circuit at 50 °C rated value 	hp	150
 at inside-delta circuit at 50 °C rated value 	hp	300
contact rating of auxiliary contacts according to UL		B300 / R300
= 0		

Further information

Simulation Tool for Soft Starters (STS)

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

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=3RW4443-6BC45

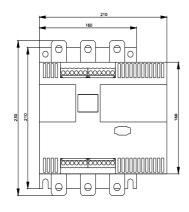
Cax online generator

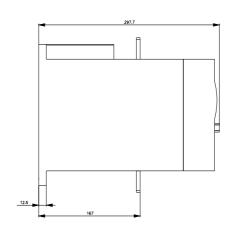
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4443-6BC45

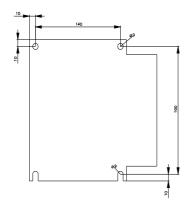
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RW4443-6BC45

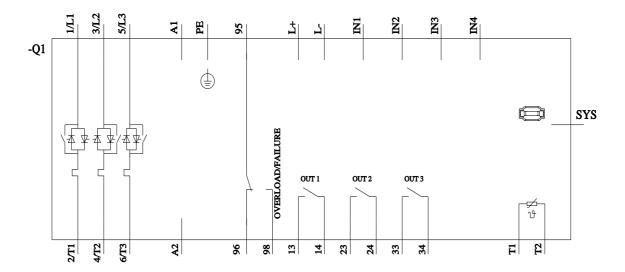
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4443-6BC45&lang=en











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