SIEMENS

Data sheet 3RW4443-6BC44



SIRIUS soft starter Values at 400 V, 40 °C standard: 203 A, 110 kW Inside-delta: 352 A, 200 kW 200-460 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5543-6HA14<<

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 230 V				
 — at standard circuit at 40 °C rated value 	kW	55		
 at inside-delta circuit at 40 °C rated value 	kW	110		
• at 400 V				
 — at standard circuit at 40 °C rated value 	kW	110		
 at inside-delta circuit at 40 °C rated value 	kW	200		
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	50		
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	%	-15
standard circuit relative positive tolerance of the operating voltage at	%	10
standard circuit	\/	200 400
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	Α	40
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during	W	89
operation typical	**	00
Control circuit/ Control		
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	ПZ %	-10
voltage frequency	/0	
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	%	-15
voltage at AC at 50 Hz		
relative positive tolerance of the control supply voltage at AC at 50 Hz	%	10
relative negative tolerance of the control supply voltage at AC at 60 Hz	%	-15
relative positive tolerance of the control supply	%	10
voltage at AC at 60 Hz		B: 1
display version for fault signal		Display
Mechanical data		
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 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		busbar connection
for main current circuit 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		1
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		70 040 3
		70 240 mm²
• stranded		70 240 mm² 95 300 mm²
 stranded type of connectable conductor cross-sections for main contacts for box terminal using the back 		
• stranded type of connectable conductor cross-sections for		

• finely stranded without core end processing 120 ... 185 mm² 120 ... 240 mm² 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 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 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 2x (20 ... 14) for auxiliary contacts • for auxiliary contacts finely stranded with core end 2x (20 ... 16) processing **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 °C during storage -25 ... +80 °C 40 derating temperature protection class IP on the front according to IEC IP00; IP20 with box terminal/cover 60529 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







Confirmation







Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report Special Test Certificate





Marine / Shipping

other







UL/CSA ratings		
yielded mechanical performance [hp] for 3-phase AC		
motor		
• at 200/208 V		
 at inside-delta circuit at 50 °C rated value 	hp	100
• at 220/230 V		
 at standard circuit at 50 °C rated value 	hp	60
 at inside-delta circuit at 50 °C rated value 	hp	125
• 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
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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4443-6BC44

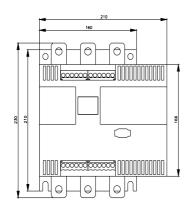
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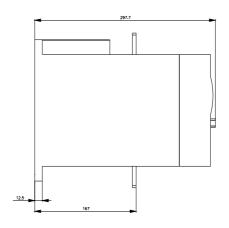
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4443-6BC44

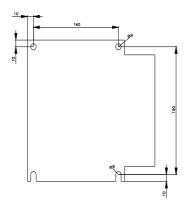
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

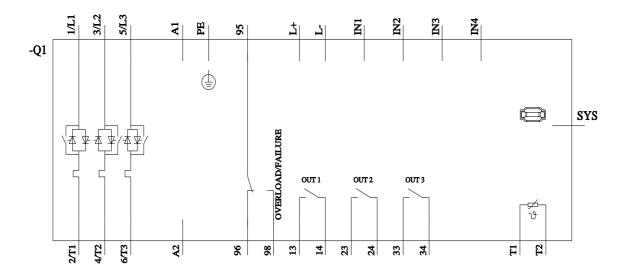
https://support.industry.siemens.com/cs/ww/en/ps/3RW4443-6BC44

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4443-6BC44&lang=en









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