SIEMENS

Data sheet 3RW4443-6BC34



SIRIUS soft starter Values at 460 V, 50 °C standard: 180 A, 125 hp Inside-delta: 312 A, 250 hp 200-460 V AC, 115 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		G		
according to IEC 204-2 according to IEC 750				
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 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	Α	40
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	89
Control circuit/ Control		
		A.C.
type of voltage of the control supply voltage	1.1-	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	115
at 60 Hz rated value	V	115
relative negative tolerance of the control supply voltage at AC at 50 Hz	%	-15
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 voltage at AC at 60 Hz	%	10
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 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 		70 240 mm²
• stranded		95 300 mm²
type of connectable conductor cross-sections for main contacts for box terminal using the back		
clamping point		
finely stranded with core end processing		120 185 mm²

• 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

Certificates/ approvals

General Product Approval





Confirmation

touch protection on the front according to IEC 60529





terminal/cover



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



Declaration of Conformity

Test Certificates

Marine / Shipping





Special Test Certificate Type Test Certificates/Test Report





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- 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=3RW4443-6BC34

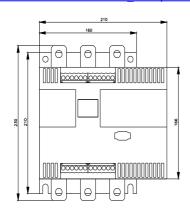
Cax online generator

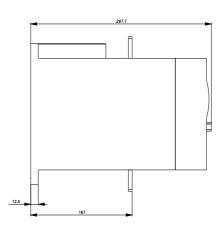
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4443-6BC34

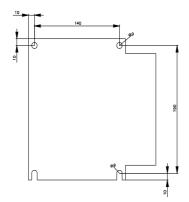
 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$

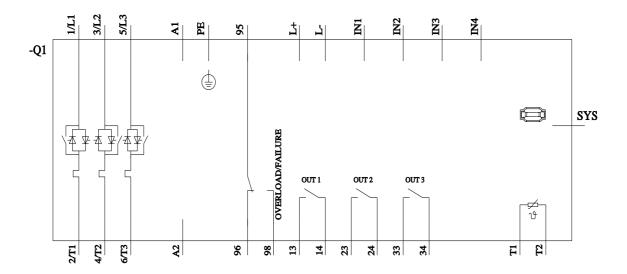
https://support.industry.siemens.com/cs/ww/en/ps/3RW4443-6BC34

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RW4443-6BC34&lang=en









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