SIEMENS

Data sheet 3RW4435-6BC34



SIRIUS soft starter Values at 460 V, 50 °C standard: 117 A, 75 hp Inside-delta: 203 A, 150 hp 200-460 V AC, 115 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5535-6HA14<<

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	134		
 at 50 °C rated value 	Α	117		
 at 60 °C rated value 	Α	100		
operational current for 3-phase motors at inside-delta circuit				
 at 40 °C rated value 	Α	232		
 at 50 °C rated value 	Α	203		
 at 60 °C rated value 	Α	173		
yielded mechanical performance for 3-phase motors				
• at 230 V				
 — at standard circuit at 40 °C rated value 	kW	37		
 — at inside-delta circuit at 40 °C rated value 	kW	75		
● at 400 V				
 at standard circuit at 40 °C rated value 	kW	75		
 at inside-delta circuit at 40 °C rated value 	kW	132		
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	30		
operating frequency rated value				
operating nequency rated value	Hz	50 60		
relative negative tolerance of the operating frequency	Hz %	50 60 -10		

operating voltage at standard circuit rated value	V %	200 460 -15
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	А	26
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	76
Control circuit/ Control		
type of voltage of the control supply voltage		AC
	⊔⇒	50
control supply voltage frequency 1 rated value	Hz	
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	%	10
voltage at AC at 60 Hz		D: 1
display version for fault signal		Display
_		Display
display version for fault signal	mm	170
display version for fault signal Mechanical data width height	mm mm	170 200
display version for fault signal Mechanical data width		170
display version for fault signal Mechanical data width height	mm	170 200
display version for fault signal Mechanical data width height depth	mm	170 200 270
display version for fault signal Mechanical data width height depth fastening method mounting position	mm	170 200 270 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and
display version for fault signal Mechanical data width height depth fastening method mounting position required spacing with side-by-side mounting	mm mm	170 200 270 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
display version for fault signal Mechanical data width height depth fastening method mounting position required spacing with side-by-side mounting • upwards	mm mm	170 200 270 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
display version for fault signal Mechanical data width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side	mm mm mm mm	170 200 270 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 100 5
display version for fault signal Mechanical data width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards	mm mm mm mm	170 200 270 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 100 5 75
display version for fault signal Mechanical data width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards wire length maximum	mm mm mm mm	170 200 270 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 100 5 75 500
display version for fault signal Mechanical data width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards wire length maximum number of poles for main current circuit	mm mm mm mm	170 200 270 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 100 5 75
display version for fault signal Mechanical data width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards wire length maximum number of poles for main current circuit Connections/ Terminals	mm mm mm mm	170 200 270 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 100 5 75 500
display version for fault signal Mechanical data width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection	mm mm mm mm	170 200 270 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
display version for fault signal Mechanical data width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit	mm mm mm mm	170 200 270 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
display version for fault signal Mechanical data width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit	mm mm mm mm	170 200 270 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
display version for fault signal Mechanical data width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts	mm mm mm mm	170 200 270 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
display version for fault signal Mechanical data width height depth fastening method mounting position required spacing with side-by-side mounting	mm mm mm mm	170 200 270 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
display version for fault signal Mechanical data width height depth fastening method mounting position required spacing with side-by-side mounting	mm mm mm mm	170 200 270 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
display version for fault signal Mechanical data width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front	mm mm mm mm	170 200 270 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
display version for fault signal Mechanical data width height depth fastening method mounting position required spacing with side-by-side mounting	mm mm mm mm	170 200 270 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
display version for fault signal Mechanical data width height depth fastening method mounting position required spacing with side-by-side mounting	mm mm mm mm	170 200 270 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
display version for fault signal Mechanical data width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 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 • finely stranded without core end processing	mm mm mm mm	170 200 270 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
display version for fault signal Mechanical data width height depth fastening method mounting position required spacing with side-by-side mounting	mm mm mm mm	170 200 270 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
display version for fault signal Mechanical data width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 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 • finely stranded without core end processing • stranded type of connectable conductor cross-sections for main contacts for box terminal using the back	mm mm mm mm	170 200 270 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
display version for fault signal Mechanical data width height depth fastening method mounting position required spacing with side-by-side mounting	mm mm mm mm	170 200 270 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

General Product Approval			EMC
Certificates/ approvals			
touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the terminal/cover	ne front with box
protection class IP on the front according to IEC 60529		IP00; IP20 with box terminal/cover	
derating temperature	°C	40	
 during storage 	°C	-25 +80	
during operation	°C	60	
ambient temperature		mist), 3S2 (sand must not get into the	devices), Sivio
• during operation according to IEC 60721		1S2 (sand must not get inside the details) 3K6 (no formation of ice, no condensition) 3S2 (sand must not get into the	ation), 3C3 (no salt
 during storage according to IEC 60721 		1K6 (only occasional condensation),	
 during transport according to IEC 60721 		2K2, 2C1, 2S1, 2M2 (max. fall height	0.3 m)
environmental category			
installation altitude at height above sea level	m	5 000	
Ambient conditions			
 for auxiliary contacts finely stranded with core end processing 		2x (20 16)	
for auxiliary contacts		2x (20 14)	
• for main contacts		4 250 kcmil	
type of connectable conductor cross-sections at AWG cables			
 finely stranded with core end processing 		2x (0.5 1.5 mm²)	
• solid		2x (0.5 2.5 mm²)	
type of connectable conductor cross-sections for auxiliary contacts			
• stranded		25 120 mm²	
finely stranded		16 95 mm²	
type of connectable conductor cross-sections for DIN cable lug for main contacts			
using both clamping points		max. 2x 1/0	
using the front clamping point		6 2/0	
cables for main contacts for box terminal • using the back clamping point		6 2/0	
type of connectable conductor cross-sections at AWG			
• stranded		max. 2x 70 mm²	
finely stranded without core end processing		max. 1x 50 mm², 1x 70 mm²	
finely stranded with core end processing		max. 1x 50 mm², 1x 70 mm²	
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points			
• stranded		16 70 mm²	
 finely stranded without core end processing 		16 70 mm²	





Confirmation









Declaration of Conformity

Test Certificates

Marine / Shipping





Special Test Certific-<u>ate</u>

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	60
• at 220/230 V		
 at standard circuit at 50 °C rated value 	hp	40
 at inside-delta circuit at 50 °C rated value 	hp	75
• at 460/480 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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4435-6BC34

Cax online generator

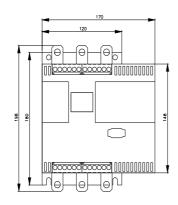
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4435-6BC34

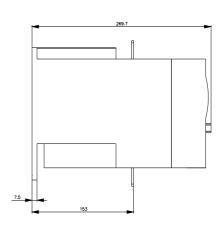
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

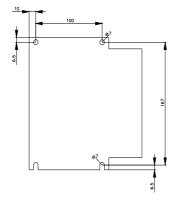
https://support.industry.siemens.com/cs/ww/en/ps/3RW4435-6BC34

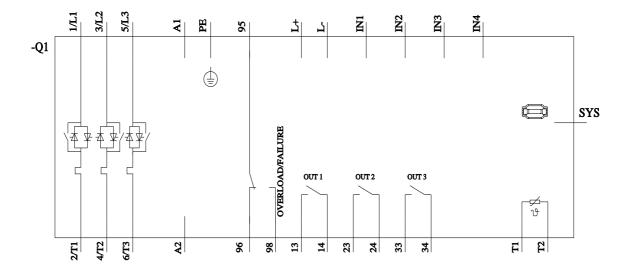
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

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