SIEMENS

Data sheet

3RW4435-6BC44



SIRIUS soft starter Values at 400 V, 40 °C standard: 134 A, 75 kW Inside-delta: 232 A, 132 kW 200-460 V AC, 230 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
ministe device protection motor overload protection		Yes
evaluation of thermistor motor protection		Yes
external reset		Yes
		Yes
adjustable current limitation		
inside-delta circuit		Yes
product component motor brake output	14	Yes
insulation voltage rated value	V	690 0
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	А	134
 at 50 °C rated value 	А	117
• at 60 °C rated value	А	100
operational current for 3-phase motors at inside-delta circuit		
• at 40 °C rated value	А	232
• at 50 °C rated value	А	203
• at 60 °C rated value	А	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	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	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
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	230
• at 60 Hz rated value	V	230
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 telerance of the control cumply veltage at	%	10
relative positive tolerance of the control supply voltage at AC at 60 Hz	70	10
	70	Display
AC at 60 Hz	70	
AC at 60 Hz display version for fault signal	mm	
AC at 60 Hz display version for fault signal Mechanical data		Display
AC at 60 Hz display version for fault signal Mechanical data width	mm	Display 170
AC at 60 Hz display version for fault signal Mechanical data width height	mm	Display 170 200
AC at 60 Hz display version for fault signal Mechanical data width height depth	mm	Display 170 200 270
AC at 60 Hz display version for fault signal Mechanical data width height depth fastening method	mm	Display 170 200 270 screw fixing with vertical mounting surface +/-90° rotatable, with vertical
AC at 60 Hz display version for fault signal Mechanical data width height depth fastening method mounting position	mm	Display 170 200 270 screw fixing with vertical mounting surface +/-90° rotatable, with vertical
AC at 60 Hz display version for fault signal Mechanical data width height depth fastening method mounting position required spacing with side-by-side mounting	mm mm mm	Display 170 200 270 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
AC at 60 Hz display version for fault signal Mechanical data width height depth fastening method mounting position required spacing with side-by-side mounting • upwards	mm mm mm	Display 170 200 270 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 100
AC at 60 Hz 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 mm	Display 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
AC at 60 Hz 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 mm	Display 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
AC at 60 Hz 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 mm	Display 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
AC at 60 Hz 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 mm	Display 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
AC at 60 Hz 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 mm	Display 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
AC at 60 Hz 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 mm	Display 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
AC at 60 Hz 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 mm	Display 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
AC at 60 Hz 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 mm	Display 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
AC at 60 Hz 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	mm mm mm mm mm	Display 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
AC at 60 Hz 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 number of CO contacts for auxiliary contacts	mm mm mm mm mm	Display 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
AC at 60 Hz 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 clamping point	mm mm mm mm mm	Display 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
AC at 60 Hz 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 clamping point • finely stranded with core end processing	mm mm mm mm mm	Display 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 16 16 16
AC at 60 Hz 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 of or 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 clamping point • finely stranded with core end processing • finely stranded without core end processing	mm mm mm mm mm	Display 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
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https://withoutsais.upper/interview 16 95 mm ² interview 25 120 mm ² interview 25 120 mm ² interview 25 120 mm ² interview 25 125 mm ² interview 25 12	 using the front clamping point 		6 2/0	
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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

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RW4435-6BC44

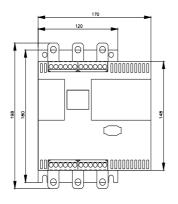
Cax online generator

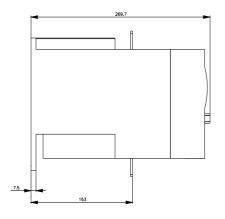
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4435-6BC44

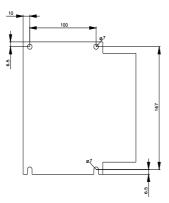
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

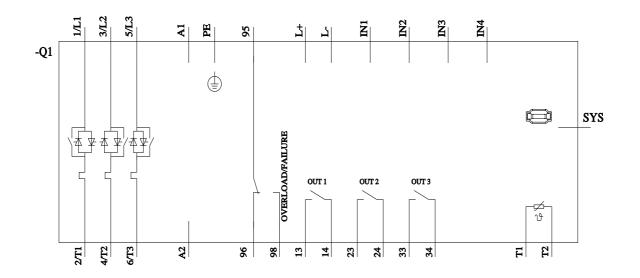
https://support.industry.siemens.com/cs/ww/en/ps/3RW4435-6BC44

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4435-6BC44&lang=en









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