SIEMENS

Data sheet

3RW4455-6BC34



SIRIUS soft starter Values at 460 V, 50 °C standard: 615 A, 500 hp Inside-delta: 1065 A, 950 hp 200-460 V AC, 115 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5553-6HA14<<

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 	А	693
 at 50 °C rated value 	А	615
 at 60 °C rated value 	А	551
operational current for 3-phase motors at inside-delta circuit		
 at 40 °C rated value 	А	1 200
 at 50 °C rated value 	А	1 065
 at 60 °C rated value 	А	954
yielded mechanical performance for 3-phase motors		
• at 230 V		
 — at standard circuit at 40 °C rated value 	kW	200
 — at inside-delta circuit at 40 °C rated value 	kW	400
• at 400 V		
 — at standard circuit at 40 °C rated value 	kW	400
 — at inside-delta circuit at 40 °C rated value 	kW	710
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	200
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	138
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during	W	220
operation typical		
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	%	-10
voltage frequency		
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		
		Display
voltage at AC at 60 Hz		Display
voltage at AC at 60 Hz display version for fault signal	mm	Display 510
voltage at AC at 60 Hz display version for fault signal Mechanical data	mm	
voltage at AC at 60 Hz display version for fault signal Mechanical data width		510
voltage at AC at 60 Hz display version for fault signal Mechanical data width height	mm	510 640
voltage at AC at 60 Hz display version for fault signal Mechanical data width height depth	mm	510 640 290 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and
voltage at AC at 60 Hz display version for fault signal <u>Mechanical data</u> width height depth fastening method mounting position	mm	510 640 290 screw fixing with vertical mounting surface +/-90° rotatable, with
voltage at AC at 60 Hz display version for fault signal <u>Mechanical data</u> width height depth fastening method mounting position required spacing with side-by-side mounting	mm mm	510 640 290 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
voltage at AC at 60 Hz display version for fault signal <u>Mechanical data</u> width height depth fastening method mounting position required spacing with side-by-side mounting • upwards	mm mm	510 640 290 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
voltage at AC at 60 Hz display version for fault signal <u>Mechanical data</u> width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side	mm mm mm	 510 640 290 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 100 5
voltage at AC at 60 Hz display version for fault signal <u>Mechanical data</u> width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards	mm mm mm mm	 510 640 290 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 100 5 75
voltage at AC at 60 Hz display version for fault signal <u>Mechanical data</u> 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	 510 640 290 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 100 5 75 500
voltage at AC at 60 Hz display version for fault signal <u>Mechanical data</u> 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	 510 640 290 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 100 5 75
voltage at AC at 60 Hz display version for fault signal <u>Mechanical data</u> 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 <u>Connections/ Terminals</u>	mm mm mm mm	 510 640 290 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 100 5 75 500
voltage at AC at 60 Hz display version for fault signal <u>Mechanical data</u> 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 <u>Connections/ Terminals</u> type of electrical connection	mm mm mm mm	 510 640 290 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
voltage at AC at 60 Hz display version for fault signal <u>Mechanical data</u> 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 <u>Connections/ Terminals</u> type of electrical connection • for main current circuit	mm mm mm mm	510 640 290 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
voltage at AC at 60 Hz display version for fault signal <u>Mechanical data</u> width height depth fastening method mounting position required spacing with side-by-side mounting eupwards eupwards eat the side downwards wire length maximum number of poles for main current circuit <u>Connections/ Terminals</u> type of electrical connection e for main current circuit for auxiliary and control circuit	mm mm mm mm	510 640 290 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
voltage at AC at 60 Hz display version for fault signal <u>Mechanical data</u> 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 <u>Connections/ Terminals</u> type of electrical connection • for main current circuit	mm mm mm mm	510 640 290 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
voltage at AC at 60 Hz display version for fault signal <u>Mechanical data</u> 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 <u>Connections/ Terminals</u> type of electrical connection • for main current circuit • for auxiliary and control circuit	mm mm mm mm	510 640 290 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
voltage at AC at 60 Hz display version for fault signal <u>Mechanical data</u> 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 <u>Connections/ Terminals</u> type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts	mm mm mm mm	 510 640 290 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
voltage at AC at 60 Hz display version for fault signal <u>Mechanical data</u> width height depth fastening method mounting position required spacing with side-by-side mounting eupwards eat the side downwards wire length maximum number of poles for main current circuit <u>Connections/ Terminals</u> type of electrical connection e for main current circuit of or auxiliary and control circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts	mm mm mm mm	 510 640 290 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
voltage at AC at 60 Hz display version for fault signal <u>Mechanical data</u> 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 <u>Connections/ Terminals</u> 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 DIN cable lug for main contacts	mm mm mm mm	 510 640 290 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
voltage at AC at 60 Hz display version for fault signal <u>Mechanical data</u> 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 <u>Connections/ Terminals</u> 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 DIN	mm mm mm mm	510 640 290 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
voltage at AC at 60 Hz display version for fault signal <u>Mechanical data</u> width height depth fastening method mounting position required spacing with side-by-side mounting e upwards e at the side e downwards wire length maximum number of poles for main current circuit <u>Connections/ Terminals</u> type of electrical connection e for main current circuit number of NC contacts for auxiliary contacts number of NO 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 DIN cable lug for main contacts e finely stranded e stranded type of connectable conductor cross-sections for	mm mm mm mm	510 640 290 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 50 240 mm ²
voltage at AC at 60 Hz display version for fault signal <u>Mechanical data</u> width height depth fastening method mounting position required spacing with side-by-side mounting e upwards e at the side downwards wire length maximum number of poles for main current circuit <u>Connections/Terminals</u> type of electrical connection e for main current circuit number of NC contacts for auxiliary contacts 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 DIN cable lug for main contacts e finely stranded e stranded type of connectable conductor cross-sections for	mm mm mm mm	510 640 290 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 50 240 mm ² 70 240 mm ²
voltage at AC at 60 Hz display version for fault signal <u>Mechanical data</u> width height depth fastening method mounting position required spacing with side-by-side mounting e upwards e at the side e downwards wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection e 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 NO contacts for auxiliary contacts type of connectable conductor cross-sections for DIN cable lug for main contacts e finely stranded e stranded type of connectable conductor cross-sections for auxiliary contacts e solid	mm mm mm mm	 510 640 290 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 50 240 mm ² 70 240 mm ² 2x (0.5 2.5 mm ²)
voltage at AC at 60 Hz display version for fault signal <u>Mechanical data</u> width height depth fastening method mounting position required spacing with side-by-side mounting e upwards e at the side e downwards wire length maximum number of poles for main current circuit <u>Connections/Terminals</u> type of electrical connection e for main current circuit number of NC contacts for auxiliary contacts 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 DIN cable lug for main contacts e finely stranded e stranded type of connectable conductor cross-sections for	mm mm mm mm	510 640 290 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 50 240 mm ² 70 240 mm ²

cables for main contacts for auxiliary contacts for auxiliary contacts finely stranded wit processing 	h core end		2/0 500 kcm 2x (20 14) 2x (20 16)	11	
Ambient conditions					
installation altitude at height above sea leve environmental category • during transport according to IEC 6072 • during storage according to IEC 60721 • during operation according to IEC 60722 ambient temperature • during operation • during storage derating temperature protection class IP on the front according 60529	1	m °C °C °C	1K6 (only occa 1S2 (sand mus 3K6 (no formation	, 2M2 (max. fall height asional condensation), ' st not get inside the dev tion of ice, no condensa nd must not get into the	1C2 (no salt mist), vices), 1M4 ation), 3C3 (no salt
Certificates/ approvals				_	
General Product Approval					EMC
Confirmation Confirmation	CCC		(ال س	EHC	
Declaration of Conformity	Test Certifica	ates Mari	ine / Shipping		
CE UK EG-Konf. CA	<u>Special Test Ca</u> ate	ertific-	ABS	BUREAU VERITAS	Lloyd's Register urs
other					

Confirmation

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	350			
• at 220/230 V					
 — at standard circuit at 50 °C rated value 	hp	250			
 — at inside-delta circuit at 50 °C rated value 	hp	450			
● at 460/480 V					
 — at standard circuit at 50 °C rated value 	hp	500			
 — at inside-delta circuit at 50 °C rated value 	hp	950			
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)					

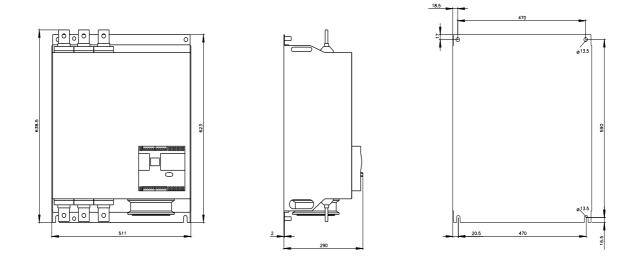
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4455-6BC34

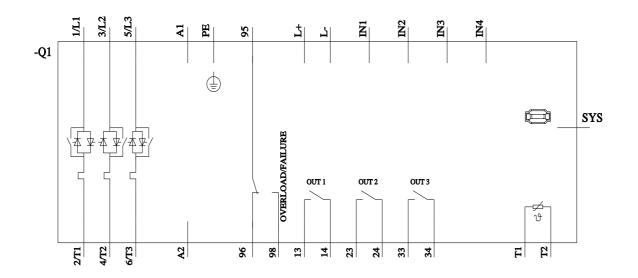
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4455-6BC34

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4455-6BC34

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4455-6BC34&lang=en





last modified:

1/16/2022 🖸