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 fin	nely stranded wit	th core end		2/0 500 kc 2x (20 14) 2x (20 16)	mil	
processing Ambient conditions					_	
installation altitude at heigh	ht above sea lev	vel	m	5 000		
environmental category						
 during transport accord 	ding to IEC 6072	1		2K2, 2C1, 2S	31, 2M2 (max. fall height	0.3 m)
 during storage according 	ng to IEC 60721				casional condensation), ust not get inside the de	
 during operation accord 	ding to IEC 6072	21			ation of ice, no condens and must not get into the	
ambient temperature						
 during operation 			°C	60		
 during storage 			°C	-25 +80		
derating temperature			°C	40		
protection class IP on the f 60529	ront according	to IEC		IP00		
Certificates/ approvals						
General Product Approval						EMC
	onfirmation	CCC			EHC	RCM
Declaration of Conformity		Test Certifica	ates Ma	arine / Shipping		
CE EG-Konf.	UK CA	<u>Special Test Cr</u> ate	<u>ertific-</u>	ABS	BUREAU VERITAS	Llovd's Register uts
other						
Confirmation						

ielded mechanical performance [hp] for 3-phase AC notor		
• 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

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=3RW4455-6BC34

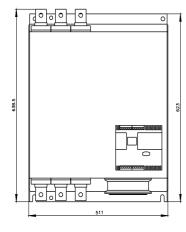
Cax online generator

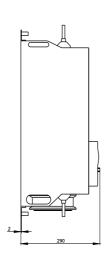
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4455-6BC34

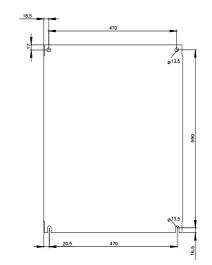
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

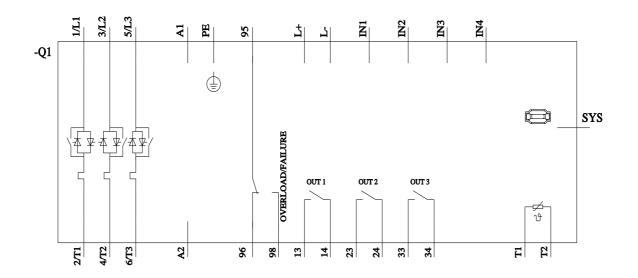
https://support.industry.siemens.com/cs/ww/en/ps/3RW4455-6BC34

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









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