SIEMENS

Data sheet

SIRIUS soft starter Values at 575 V, 50 °C standard: 180 A, 150 hp Inside-delta: 312 A, 300 hp 400-600 V AC, 115 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5543-6HA16<<

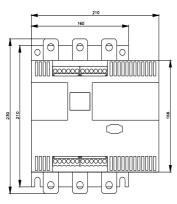
3RW4443-6BC35

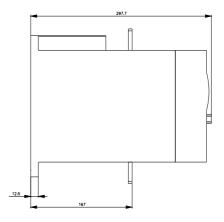
General technical data		
product brand name		SIRIUS
product feature		
 integrated bypass contact system 		Yes
• thyristors		Yes
product function		
intrinsic device protection		Yes
motor overload protection		Yes
 evaluation of thermistor motor protection 		Yes
external reset		Yes
adjustable current limitation		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		о С
Power Electronics		
product designation		Soft starter
operational current		
 at 40 °C rated value 	А	203
 at 50 °C rated value 	А	180
 at 60 °C rated value 	А	156
operational current for 3-phase motors at inside-delta circuit		
 at 40 °C rated value 	А	352
 at 50 °C rated value 	А	312
 at 60 °C rated value 	А	270
yielded mechanical performance for 3-phase motors		
• at 400 V		
— at standard circuit at 40 °C rated value	kW	110
— at inside-delta circuit at 40 °C rated value	kW	200
• at 500 V		
— at standard circuit at 40 °C rated value	kW	132
— at inside-delta circuit at 40 °C rated value	kW	250
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	400 600
relative negative tolerance of the operating voltage at standard circuit	%	-15

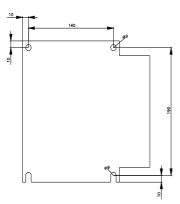
relative positive tolerance of the operating voltage at standard circuit	%	10
operating voltage at inside-delta circuit rated value	V	400 600
relative negative tolerance of the operating voltage at inside-delta circuit	%	-15
relative positive tolerance of the operating voltage at inside-delta circuit	%	10
minimum load [%]	%	8
adjustable motor current for motor overload	A	40
protection minimum rated value		
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		
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 voltage at AC at 60 Hz	%	10
display version for fault signal		Display
Mechanical data		
Mechanical data width	mm	210
	mm mm	210 230
width		
width height	mm	230
width height depth fastening method	mm	230 298 screw fixing
width height depth	mm	230 298
width height depth fastening method	mm	230 298 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and
width height depth fastening method mounting position	mm	230 298 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and
width height depth fastening method mounting position required spacing with side-by-side mounting	mm mm	230 298 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
width height depth fastening method mounting position required spacing with side-by-side mounting • upwards	mm mm	 230 298 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 100
width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side	mm mm mm	 230 298 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 100 5
width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards	mm mm mm mm	 230 298 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 100 5 75
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	 230 298 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 100 5 75 500
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	 230 298 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 100 5 75 500
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	 230 298 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
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	230 298 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
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	230 298 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
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	230 298 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
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	230 298 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
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	mm mm mm mm	230 298 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
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	230 298 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
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	mm mm mm mm	230 298 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
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	mm mm mm mm	230 298 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
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	mm mm mm mm	230 298 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 70 240 mm ²
 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 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	230 298 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 1 busbar connection screw-type terminals 0 3 1 70 240 mm ² 70 240 mm ²
 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 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 	mm mm mm mm	230 298 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 70 240 mm ² 70 240 mm ²
 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 NC contacts for auxiliary contacts number of CO 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 stranded 	mm mm mm mm	230 298 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 70 240 mm ² 70 240 mm ²
 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 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 stranded type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point 	mm mm mm mm	230 298 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 70 240 mm ² 75 300 mm ²
 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 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 stranded type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point finely stranded with core end processing stranded 	mm mm mm mm	230 298 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 1 busbar connection screw-type terminals 0 3 1 70 240 mm ² 70 240 mm ² 95 300 mm ²

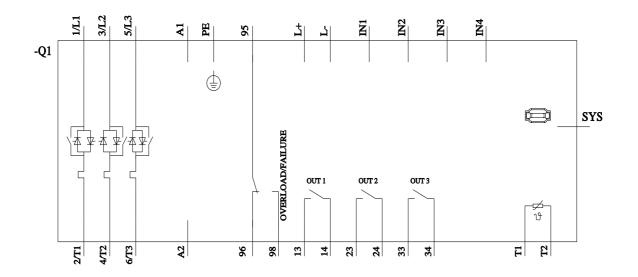
 type of connectable conductor cross-section main contacts for box terminal using both points finely stranded with core end processing finely stranded without core end procession stranded type of connectable conductor cross-section using the back clamping point using the front clamping point using both clamping points type of connectable conductor cross-section using the front clamping points type of connectable conductor cross-section ausing the front clamping points type of connectable conductor cross-section able lug for main contacts finely stranded stranded type of connectable conductor cross-section auxiliary contacts solid finely stranded with core end processing for main contacts for auxiliary contacts for auxiliary contacts for auxiliary contacts for auxiliary contacts finely stranded with processing 	clamping g sing ons at AWG ons for DIN ons for		min. 2x 50 mm ²	il ix. 2x 500 kcmil 1m²) 1m²)	
Ambient conditions					
installation altitude at height above sea leven environmental category • during transport according to IEC 60721 • during storage according to IEC 60722 ambient temperature • during operation • during storage derating temperature protection class IP on the front according to Certificates/ approvals General Product Approval Confirmation Confirmation	1 1 to IEC	m °C °C °C	1K6 (only occas 1S2 (sand mus 3K6 (no formati mist), 3S2 (san 60 -25 +80 40 IP00; IP20 with	, 2M2 (max. fall height sional condensation), t not get inside the de ion of ice, no condens d must not get into the box terminal/cover vertical contact from t	1C2 (no salt mist), vices), 1M4 sation), 3C3 (no salt e devices), 3M6
Declaration of Conformity	Test Certificat	tes		Marine / Shipping	
CE UK EG-Konf.	<u>Type Test Cer</u> ates/Test Rep		<u>al Test Certific-</u> <u>ate</u>	ABS	B U R E A U VERITAS
Marine / Shipping		othe	r		
Lloyds Register URS PRS	DNVGL		onfirmation		

UL/CSA ratings	UL/CSA ratings				
yielded mechanical performance [hp] for 3-phase AC motor					
• 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			
• at 575/600 V					
 — at standard circuit at 50 °C rated value 	hp	150			
 — at inside-delta circuit at 50 °C rated value 	hp	300			
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=3RW4443-6BC35					
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4443-6BC35					
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW4443-6BC35					
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4443-6BC35⟨=en					









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