SIEMENS

Data sheet

3RW4458-6BC34



SIRIUS soft starter Values at 460 V, 50 °C standard: 850 A, 750 hp Inside-delta: 1472 A, 1300 hp 200-460 V AC, 115 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5556-6HA14<<

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	970		
 at 50 °C rated value 	А	850		
 at 60 °C rated value 	А	760		
operational current for 3-phase motors at inside-delta circuit				
 at 40 °C rated value 	А	1 680		
 at 50 °C rated value 	А	1 472		
 at 60 °C rated value 	А	1 316		
yielded mechanical performance for 3-phase motors				
• at 230 V				
 — at standard circuit at 40 °C rated value 	kW	315		
 — at inside-delta circuit at 40 °C rated value 	kW	560		
• at 400 V				
 — at standard circuit at 40 °C rated value 	kW	560		
 — at inside-delta circuit at 40 °C rated value 	kW	1 000		
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	300		
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	%	-15			
standard circuit relative tolerance of the operating voltage at	%	10			
standard circuit					
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	194			
continuous operating current [% of le] at 40 °C	%	115			
power loss [W] at operational current at 40 °C during	W	270			
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 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	%	-15			
voltage at AC at 50 Hz relative positive tolerance of the control supply	%	10			
voltage at AC at 50 Hz relative negative tolerance of the control supply	%	-15			
voltage at AC at 60 Hz relative positive tolerance of the control supply	%	10			
relative positive tolerance of the control supply					
voltage at AC at 60 Hz	70				
voltage at AC at 60 Hz display version for fault signal	70	Display			
voltage at AC at 60 Hz display version for fault signal Mechanical data	70	Display			
voltage at AC at 60 Hz display version for fault signal Mechanical data width	mm	Display 510			
voltage at AC at 60 Hz display version for fault signal Mechanical data width height	mm	Display 510 640			
voltage at AC at 60 Hz display version for fault signal <u>Mechanical data</u> width height depth	mm	Display 510 640 290			
voltage at AC at 60 Hz display version for fault signal <u>Mechanical data</u> width height depth fastening method	mm	Display 510 640 290 screw fixing			
voltage at AC at 60 Hz display version for fault signal <u>Mechanical data</u> width height depth	mm	Display 510 640 290			
voltage at AC at 60 Hz display version for fault signal Mechanical data width height depth fastening method	mm	Display 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	Display 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 required spacing with side-by-side mounting	mm mm mm	Display 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 mm	Display 510 640 290 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back 100			
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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 mm	Display 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	mm mm mm mm mm	Display 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>	mm mm mm mm mm	Display 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 mm	Display 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 mm	Display 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 mm	Display 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 mm	Display 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			
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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 number of CO contacts for auxiliary contacts	mm mm mm mm mm	Display 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			
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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 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 DIN cable lug for main contacts	mm mm mm mm mm	Display 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 • 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 DIN cable lug for main contacts • finely stranded	mm mm mm mm mm	Display 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			
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cables • for main contacts • for auxiliary contacts • for auxiliary contacts finely stranded w processing Ambient conditions	ith core end		2/0 500 kcmi 2x (20 14) 2x (20 16)	1		
 installation altitude at height above sea level environmental category during transport according to IEC 60721 		m	2K2, 2C1, 2S1,	5 000 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6		
during storage according to IEC 60721during operation according to IEC 60721			1S2 (sand mus 3K6 (no format			
ambient temperature • during operation • during storage derating temperature protection class IP on the front according 60529	to IEC	ວ° ວ° ວ	60 -25 +80 40 IP00			
Certificates/ approvals General Product Approval	_	_	_	_	EMC	
St CCC	Confirmatio		U) u	EHC	RCM	
Declaration of Conformity	Test Certifica	ates Mar	ine / Shipping			
	<u>Special Test C</u> <u>ate</u>	<u>ertific-</u>	ABS	BUREAU VERITAS	Lloyd's Register uts	
Marine / Shipping	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 rate at 220/230 V 		hp	550			
 — at standard circuit at 50 °C rated value — at inside-delta circuit at 50 °C rated value 		hp hp	350 650			
● at 460/480 V		·				
 — at standard circuit at 50 °C rated value — at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL 		hp hp	750 1 300 B300 / R300			

contact rating of auxiliary contacts according to UL Further information

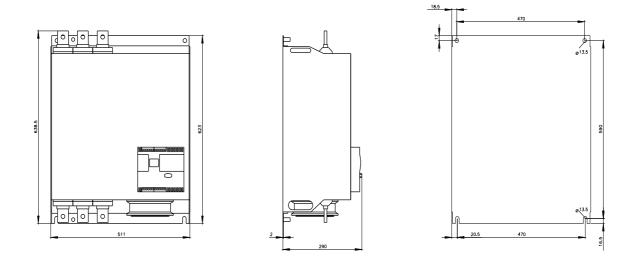
Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917 Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4458-6BC34

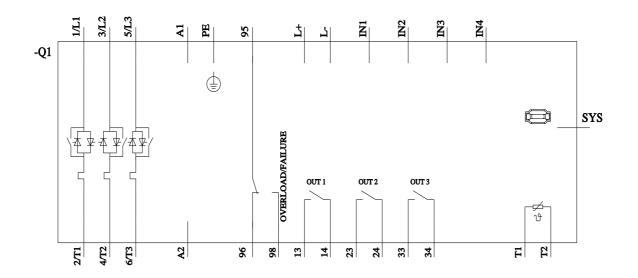
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