SIEMENS

Data sheet

3RW4453-6BC35



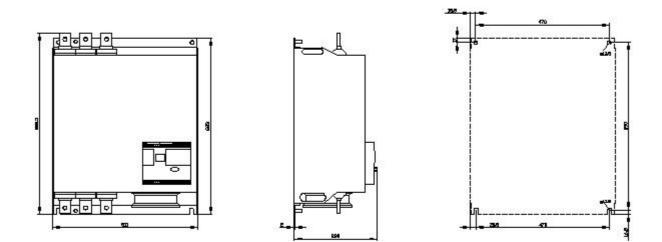
SIRIUS soft starter Values at 575 V, 50 °C standard: 494 A, 500 hp Inside-delta: 856 A, 950 hp 400-600 V AC, 115 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5548-6HA16<<

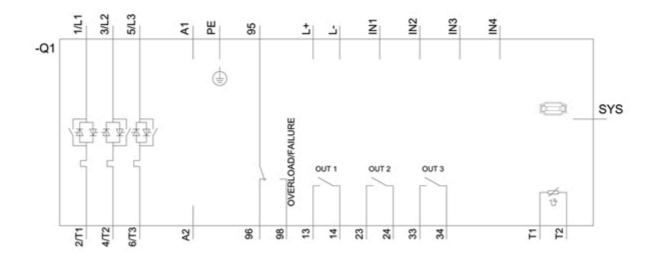
General technical data		
product brand name		SIRIUS
product feature		
 integrated bypass contact system 		Yes
thyristors		Yes
product function		
 intrinsic device protection 		Yes
 motor overload protection 		Yes
 evaluation of thermistor motor protection 		Yes
external reset		Yes
 adjustable current 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 acc. to DIN EN 61346-2		Q
reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		G
Power Electronics		
product designation		Soft starter
operational current		
 at 40 °C rated value 	А	551
 at 50 °C rated value 	A	494
 at 60 °C rated value 	А	438
operational current for 3-phase motors at inside-delta circuit		
 at 40 °C rated value 	A	954
 at 50 °C rated value 	A	856
 at 60 °C rated value 	A	759
yielded mechanical performance for 3-phase motors		
• at 400 V		
— at standard circuit at 40 °C rated value	W	315 000
- at inside-delta circuit at 40 °C rated value	W	560 000
• at 500 V		
 — at standard circuit at 40 °C rated value 	W	355 000
 — at inside-delta circuit at 40 °C rated value 	W	630 000
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 atstandard 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 protection minimum rated value	А	110
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	159
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 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		
width	mm	510
height	mm	640
depth	mm	290
fastening method	_	screw fixing
mounting position		with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
required spacing with side-by-side mounting		
• upwards	mm	100
• at the side	mm	5
downwards	mm	75
wire length maximum	m	500
number of poles for main current circuit		3
Connections/ Terminals		
type of electrical connection		
for main current circuit		busbar connection
 for auxiliary and control circuit 		screw-type terminals
number of NC contacts for auxiliary contacts		0
number of NO contacts for auxiliary contacts		3
number of CO contacts for auxiliary contacts		1
type of connectable conductor cross-sections for DIN cable lug for main contacts		
finely stranded		50 240 mm²
stranded		70 240 mm²

auxiliary contacts	or			
• solid		2x (0.5 2.5 mm²)		
 finely stranded with core end processing 		2x (0.5 1.5 mm ²)		
type of connectable conductor cross-sections at cables	AWG			
• for main contacts		2/0 500 kcmil		
for auxiliary contacts		2x (20 14)		
 for auxiliary contacts finely stranded with core 	end	2x (20 14) 2x (20 16)		
processing		_//(_0 10)		
Ambient conditions				
installation altitude at height above sea level	m	5 000		
environmental category		01/0 004 004 014) (f =11	t 0 0 m)
• during transport acc. to IEC 60721		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
 during storage acc. to IEC 60721 		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4		
• during operation acc. to IEC 60721		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6		
ambient temperature				
 during operation 	°C	60		
during storage	°C	-25 +80		
derating temperature	°C	40		
protection class IP on the front acc. to IEC 60529		IP00		
Certificates/ approvals				
General Product Approval		EM	с	Declaration of Conformity
Test Certificates Marine / Shipping		oth	or	
rest certificates Marine / Shipping		Ull	CI	
Special Test Certific- ate	B U REAU VERITAS	Llovd's Register us	<u>Confirmation</u>	
ate Sales	B U REAU VERITAS	Lloyd's Register	<u>Confirmation</u>	
ate	B D R E A U VERITAS	Lloyd's Register	Confirmation	
ate UL/CSA ratings yielded mechanical performance [hp] for 3-phase motor	EUREAU VERITAS	Lloyd's Register	Confirmation	
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ate UL/CSA ratings yielded mechanical performance [hp] for 3-phase motor • at 460/480 V — at standard circuit at 50 °C rated value	hp	LINS	Confirmation	
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ate VL/CSA ratings yielded mechanical performance [hp] for 3-phase motor • at 460/480 V - at standard circuit at 50 °C rated value - at inside-delta circuit at 50 °C rated value - at standard circuit at 50 °C rated value - at standard circuit at 50 °C rated value - at standard circuit at 50 °C rated value - at inside-delta circuit at 50 °C rated value - at inside-delta circuit at 50 °C rated value - at inside-delta circuit at 50 °C rated value - at inside-delta circuit at 50 °C rated value Industry of auxiliary contacts according to Further information Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view Information- and Downloadcenter (Catalogs, Bro https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalogs	hp hp hp hp hp hp hp hp hp hp hp hp	400 750 500 950 B300 / R300	Confirmation	
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4453-6BC35&lang=en





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