SIEMENS

Data sheet

3RW4456-2BC34



SIRIUS soft starter Values at 460 V, 50 °C standard: 693 A, 600 hp Inside-delta: 1200 A, 1050 hp 200-460 V AC, 115 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5554-2HA14<<

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	780
 at 50 °C rated value 	А	693
 at 60 °C rated value 	А	615
operational current for 3-phase motors at inside-delta circuit		
 at 40 °C rated value 	А	1 351
 at 50 °C rated value 	А	1 200
• at 60 °C rated value	А	1 065
yielded mechanical performance for 3-phase motors		
• at 230 V		
 — at standard circuit at 40 °C rated value 	W	250 000
 — at inside-delta circuit at 40 °C rated value 	W	450 000
• at 400 V		
- at standard circuit at 40 °C rated value	W	450 000
— at inside-delta circuit at 40 °C rated value	W	800 000
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	200

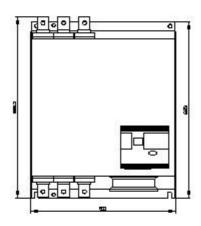
operating frequency rated value	Hz	50 60
relative negative tolerance of the operating frequency	%	-10
relative positive tolerance of the operating frequency	%	10
operating voltage at standard circuit rated value	V	200 460
relative negative tolerance of the operating voltage at standard circuit	%	-15
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	A	156
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	VV	214
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 mounting position	-	screw fixing 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 		spring-loaded 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		

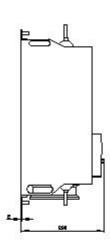
 finely stranded 		50 240 mm²	
stranded		70 240 mm²	
type of connectable conductor cross-sections for auxiliary contacts			
• solid		2x (0.25 1.5 mm²)	
 finely stranded with core end processing 		2x (0.25 1.5 mm²)	
type of connectable conductor cross-sections at AWG cables			
 for main contacts 		2/0 500 kcmil	
 for auxiliary contacts 		2x (24 16)	
Ambient conditions			
installation altitude at height above sea level	m	5 000	
environmental category			
 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), mist), 3S2 (sand must not get into the device	
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			
Test Certificates Marine / Shipping		other	
Special Test Certific- ate			
ABS BUREAU VERITAS		Llovds Register us	
ABS BUREAU VERITAS		Llovd's Register	
ABS BUREAU VERITAS		Llovd's Register	
yielded mechanical performance [hp] for 3-phase AC motor		Llovd's Register	
yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V		urs	
yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V — at inside-delta circuit at 50 °C rated value	hp	Llovd's Register	
yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V — at inside-delta circuit at 50 °C rated value • at 220/230 V		450	
yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V — at inside-delta circuit at 50 °C rated value • at 220/230 V — at standard circuit at 50 °C rated value	hp	450 250	
yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V — at inside-delta circuit at 50 °C rated value • at 220/230 V		450	
 yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at inside-delta circuit at 50 °C rated value at 220/230 V at standard circuit at 50 °C rated value at inside-delta circuit at 50 °C rated value 	hp	450 250	
 yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at inside-delta circuit at 50 °C rated value at 220/230 V at standard circuit at 50 °C rated value at inside-delta circuit at 50 °C rated value at 410/480 V 	hp hp	LINS 450 250 500	
 yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at inside-delta circuit at 50 °C rated value at 220/230 V at standard circuit at 50 °C rated value at inside-delta circuit at 50 °C rated value at 460/480 V at standard circuit at 50 °C rated value 	hp hp hp	450 250 500 600	
 yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at inside-delta circuit at 50 °C rated value at 220/230 V at standard circuit at 50 °C rated value at inside-delta circuit at 50 °C rated value at 460/480 V at standard circuit at 50 °C rated value at standard circuit at 50 °C rated value 	hp hp hp	450 250 500 600 1 050	
 yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at inside-delta circuit at 50 °C rated value at 220/230 V at standard circuit at 50 °C rated value at inside-delta circuit at 50 °C rated value at 460/480 V at standard circuit at 50 °C rated value at standard circuit at 50 °C rated value 	hp hp hp	450 250 500 600 1 050	

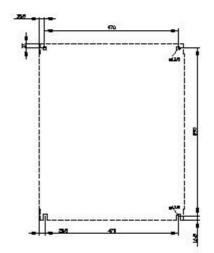
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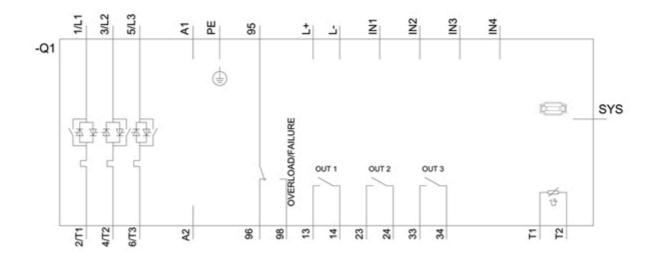
Cax online generator

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