SIEMENS

Data sheet

3RW4455-2BC34



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 spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5553-2HA14<<

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	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 	W	200 000
- at inside-delta circuit at 40 °C rated value	W	400 000
• at 400 V		
— at standard circuit at 40 °C rated value	W	400 000
— at inside-delta circuit at 40 °C rated value	W	710 000
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	200

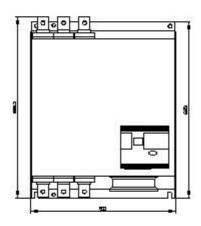
operating frequency rated value	Hz	50 60
relative negative tolerance of the operating frequency	%	-10
relative positive tolerance of the operating frequency	%	10
operating voltage at standard circuit rated value	V	200 460
relative negative tolerance of the operating voltage at standard circuit	%	-15
relative positive tolerance of the operating voltage atstandard 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 operation typical	W	220
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	_	1
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 		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		

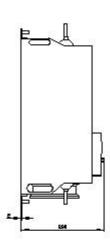
 finely stranded 				
		50 240 mm ²		
stranded		70 240 mm ²	2	
type of connectable conductor cross-sections for auxiliary contacts				
• solid		2x (0.25 1.5		
 finely stranded with core end processing 		2x (0.25 1.5 mm²)		
type of connectable conductor cross-sections at AWG cables				
for main contacts		2/0 500 kcm	nil	
 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 heigh	t 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			tion of ice, no condens nd must not get into th	
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			EMC	Declaration of Conformity
		EAC		CE EG-Konf.
		EHC		C C EG-Konf.
Image: Second system Image: Second system Image: Second system Image: Second system Test Certificates Marine / Shipping		EHC	RCM other	CE EG-Konf.
Special Test Certific-		ERE	other Confirmation	CE EG-Konf.
		Lloyds		C C EG-Konf.
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Special Test Certific- ate Image: Special Test Certific- ate JL/CSA ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V - at inside-delta circuit at 50 °C rated value • at 220/203 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 standard circuit at 50 °C rated value - at standard circuit at 50 °C rated value	hp hp hp	350 250 450 500		C EG-Konf.
Special Test Certific- ate Image:	hp hp hp	350 250 450 950		<u>C</u> C-Konf.
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Special Test Certific- ate Image:	hp hp hp hp	350 250 450 950		<u>C</u> C-Konf.
Special Test Certific- ate Image:	hp hp hp hp	350 250 450 950		C C Konf.

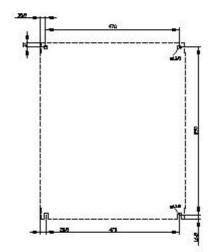
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4455-2BC34

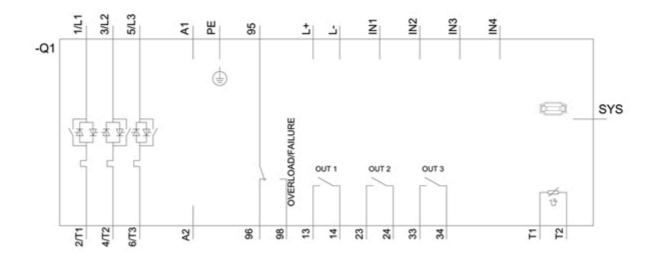
Cax online generator

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