SIEMENS

Data sheet

3RW4454-2BC34



SIRIUS soft starter Values at 460 V, 50 °C standard: 551 A, 450 hp Inside-delta: 954 A, 850 hp 200-460 V AC, 115 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5552-2HA14<<

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		G
to IEC 204-2 acc. to IEC 750		č
Power Electronics		
product designation	-	Soft starter
operational current		
 at 40 °C rated value 	A	615
 at 50 °C rated value 	А	551
 at 60 °C rated value 	А	489
operational current for 3-phase motors at inside-delta circuit		
 at 40 °C rated value 	А	1 065
 at 50 °C rated value 	А	954
 at 60 °C rated value 	А	847
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	355 000
• at 400 V		
— at standard circuit at 40 °C rated value	W	355 000
	W	630 000
 — at inside-delta circuit at 40 °C rated value 	VV	000 000

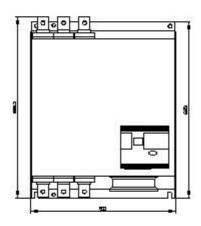
operating frequency rated value	Hz	50 60
relative negative tolerance of the operating frequency	%	-10
relative positive tolerance of the operating frequency	%	10
operating voltage at standard circuit rated value	V	200 460
relative negative tolerance of the operating voltage at standard circuit	%	-15
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	A	123
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	186
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		

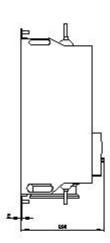
finely stranded stranded type of connectable conductor cross-sections for auxiliary contacts		50 240 mm ²	2		
type of connectable conductor cross-sections for					
51		70 240 mm²			
solid		2x (0.25 1.5	mm ²)		
 finely stranded with core end processing 		2x (0.25 1.5 mm ²)			
type of connectable conductor cross-sections at AWG	ZX (0.23 1.3 mm)				
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),			
			st not get inside the de		
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					
CSA CCC UL			RCM	EG-Konf.	
Test Certificates Marine / Shipping			other		
·····		Lloyd's Register	other Confirmation		
Special Test Certific-		Hoyd's Register urs			
Special Test Certific- ate		Régister			
Special Test Certific- ate		Régister			
Special Test Certific- ate Image: Constraints JL/CSA ratings yielded mechanical performance [hp] for 3-phase AC		Régister			
Special Test Certific- ate Image: Special Test Certific- ate JL/CSA ratings yielded mechanical performance [hp] for 3-phase AC motor	hp	Régister			
Special Test Certific- ate NBS NBS NUMBER NO NBS NUMBER NO NUMBER NO NUM NUMBER NO NUMBER NO NUM NUMBER NO NUM	hp				
Special Test Certific- ate NBS NULCSA ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V — at inside-delta circuit at 50 °C rated value	hp				
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 220/230 V		JIRS 350			
Special Test Certific- ate Image: Complete State Special Test Certific- ate Image: Complete State Multicity Image: Complete State Number of the state Image: Complete State Vielded mechanical performance [hp] for 3-phase AC motor Image: Complete State Image: Complete State	hp	350 200			
Special Test Certific- ate Image: Complete State View Image: Complete State Vielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V Image: Complete State - at inside-delta circuit at 50 °C rated value - at standard circuit at 50 °C rated value - at inside-delta circuit at 50 °C rated value	hp hp	350 200			
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 220/230 V — at standard circuit at 50 °C rated value • at 460/480 V — at standard circuit at 50 °C rated value	hp hp hp	Register LRS 350 200 400 450			
Special Test Certific- ate Image: Special Test Certific- ate Special Test Certific- ate Image: Special Test Certific- ate Image: Special Test Certific- ate Image: Special Test Special Test Certific- ate Image: Special Test Certific- ate Image: Special Test Certific- ate Image: Special Test Certes<	hp hp	Register LIES 350 200 400 450 850			
Special Test Certific- ate Image: Special Test Certific- ate Special Test Certific- ate Image: Special Test Certific- ate Image: Special Test Certific- ate Image: Special Test Special Test Certific- ate Image: Special Test Certific- ate Image: Special Test Certific- ate Image: Special Test Certe </td <td>hp hp hp</td> <td>Register LRS 350 200 400 450</td> <td></td> <td></td>	hp hp hp	Register LRS 350 200 400 450			
Special Test Certific- ate Image: Special Test Certific- ate JL/CSA ratings Image: Special Test Certific- ate 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 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 - 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 - 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	hp hp hp	Register LIES 350 200 400 450 850			
Special Test Certific- ate Image: Special Test Certific- ate JL/CSA ratings Image: Special Test Certific- ate yielded mechanical performance [hp] for 3-phase AC motor Image: Special Test Certific- ate • 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 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 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 - 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 - 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-feelta circuit at 50 °C rated value - at inside-feelta circuit at 50 °C rated value - at inside-feelta circuit at 50 °C rated value	hp hp hp hp	Register LIES 350 200 400 450 850			
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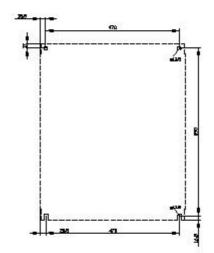
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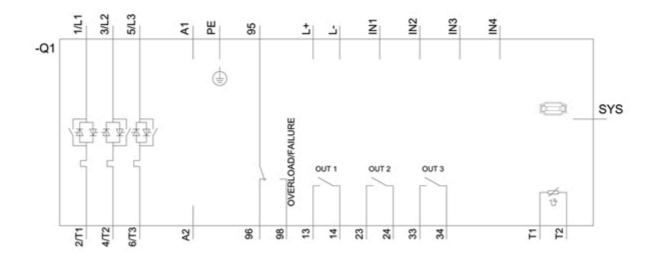
Cax online generator

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last modified:

1/18/2021 🖸