## 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	-	
<ul> <li>integrated bypass contact system</li> </ul>		Yes
• thyristors		Yes
product function	-	
intrinsic device protection		Yes
<ul> <li>motor overload protection</li> </ul>		Yes
<ul> <li>evaluation of thermistor motor protection</li> </ul>		Yes
external reset		Yes
<ul> <li>adjustable current limitation</li> </ul>		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		
<ul> <li>at 40 °C rated value</li> </ul>	А	615
<ul> <li>at 50 °C rated value</li> </ul>	А	551
<ul> <li>at 60 °C rated value</li> </ul>	А	489
operational current for 3-phase motors at inside-delta circuit		
<ul> <li>at 40 °C rated value</li> </ul>	А	1 065
<ul> <li>at 50 °C rated value</li> </ul>	А	954
<ul> <li>at 60 °C rated value</li> </ul>	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
- at inside-delta circuit at 40 °C rated value	W	630 000
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	150

	_	
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	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		
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		
<ul> <li>for main current circuit</li> </ul>		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		

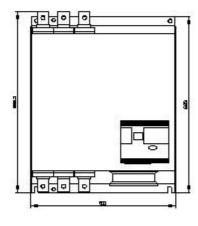
	_				
<ul> <li>finely stranded</li> </ul>			50 240 mm²		
<ul> <li>stranded</li> </ul>			70 240 mm²		
type of connectable conductor cr auxiliary contacts	oss-sections for				
• solid			2x (0.25 1.5	mm²)	
<ul> <li>finely stranded with core end</li> </ul>	processing		2x (0.25 1.5	mm²)	
type of connectable conductor cr cables	oss-sections at AWG				
<ul> <li>for main contacts</li> </ul>			2/0 500 kcmi	1	
<ul> <li>for auxiliary contacts</li> </ul>			2x (24 16)		
Ambient conditions					
installation altitude at height abo	ve sea level	m	5 000		
environmental category					
<ul> <li>during transport acc. to IEC 6</li> </ul>	0721		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
• during storage acc. to IEC 60	721			sional condensation) t not get inside the d	
• during operation acc. to IEC 6	60721		3K6 (no formati mist), 3S2 (san	ion of ice, no conden d must not get into th	sation), 3C3 (no salt ne devices), 3M6
ambient temperature					
<ul> <li>during operation</li> </ul>		°C	60		
<ul> <li>during storage</li> </ul>		°C	-25 +80		
derating temperature		°C	40		
protection class IP			IP00		
Certificates/ approvals					
General Product Approval					EMC
					A
(QF) (QC)	) (VL)		FHI	FHI	<u>/</u>
CSA CCC			LIIL	LIIL	RCM
Declaration of Conformity	Test Certificate	es Ma	rine / Shipping		
<u>Miscellan</u>			ST-ST ALL		Lloyds
	<u>Certificate</u>		1		Register
EG-Konf.			ABS	BUREAU	LRS
				VERITAS	
other					
<u>Confirmation</u>					

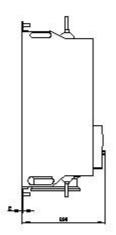
UL/CSA ratings		
yielded mechanical performance [hp] for 3-phase AC motor		
• at 200/208 V		
- at inside-delta circuit at 50 °C rated value	hp	350
• at 220/230 V		
— at standard circuit at 50 °C rated value	hp	200
- at inside-delta circuit at 50 °C rated value	hp	400
• at 460/480 V		
— at standard circuit at 50 °C rated value	hp	450
- at inside-delta circuit at 50 °C rated value	hp	850
contact rating of auxiliary contacts according to UL		B300 / R300

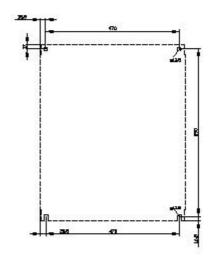
## Further information

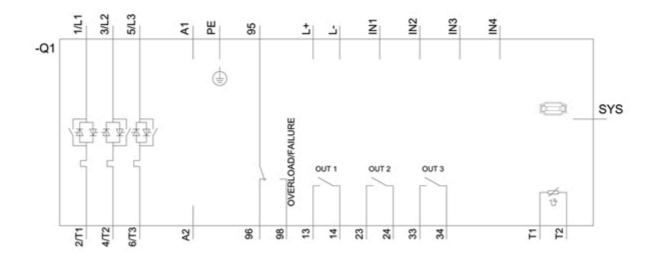
Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917 Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4454-2BC34 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4454-2BC34 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4454-2BC34

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4454-2BC34&lang=en









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