## SIEMENS

## Data sheet

## 3RW4457-2BC34



SIRIUS soft starter Values at 460 V, 50 °C standard: 780 A, 700 hp Inside-delta: 1351 A, 1200 hp 200-460 V AC, 115 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5556-2HA14<<

product brand name		SIRIUS
product feature	-	
<ul> <li>integrated bypass contact system</li> </ul>		Yes
• thyristors		Yes
product function	-	
intrinsic device protection		Yes
motor overload protection		Yes
<ul> <li>evaluation of thermistor motor protection</li> </ul>		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		
<ul> <li>at 40 °C rated value</li> </ul>	А	880
<ul> <li>at 50 °C rated value</li> </ul>	А	780
<ul> <li>at 60 °C rated value</li> </ul>	А	693
operational current for 3-phase motors at inside-delta circuit		
<ul> <li>at 40 °C rated value</li> </ul>	А	1 524
<ul> <li>at 50 °C rated value</li> </ul>	А	1 351
<ul> <li>at 60 °C rated value</li> </ul>	А	1 200
yielded mechanical performance for 3-phase motors		
• at 230 V		
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	W	250 000
- at inside-delta circuit at 40 °C rated value	W	500 000
• at 400 V		
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	W	500 000
<ul> <li>— at inside-delta circuit at 40 °C rated value</li> </ul>	W	900 000

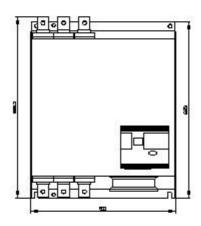
	_	
operating frequency rated value	Hz	50 60
relative negative tolerance of the operating frequency	%	-10
relative positive tolerance of the operating frequency	%	10
operating voltage at standard circuit rated value	V	200 460
relative negative tolerance of the operating voltage at standard circuit	%	-15
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	176
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	250
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
<ul> <li>for auxiliary and control circuit</li> </ul>		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		

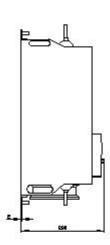
finely stranded     stranded		50 240 mm <sup>2</sup>	2	
stranded				
		70 240 mm <sup>2</sup>	2	
type of connectable conductor cross-sections for auxiliary contacts				
• solid		2x (0.25 1.5 mm <sup>2</sup> )		
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.25 1.5 mm²)		
type of connectable conductor cross-sections at AWG cables				
for main contacts		2/0 500 kcmil		
<ul> <li>for auxiliary contacts</li> </ul>		2x (24 16)		
mbient conditions				
installation altitude at height above sea level	m	5 000		
environmental category				
<ul> <li>during transport acc. to IEC 60721</li> </ul>		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
<ul> <li>during storage acc. to IEC 60721</li> </ul>		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6		
<ul> <li>during operation acc. to IEC 60721</li> </ul>				
ambient temperature				
<ul> <li>during operation</li> </ul>	°C	60		
during storage	°C	-25 +80		
derating temperature	°C	40		
protection class IP on the front acc. to IEC 60529		IP00		
ertificates/ approvals				
		EAC		CE EG-Konf.
		EHC	RCM	CE EG-Konf.
Image: Second system       Image: Second system       Image: Second system       Image: Second system         Test Certificates       Marine / Shipping		EAC	CCM	CE EG-Konf.
Image: Special Test Certificates ate       Marine / Shipping         Special Test Certificates ate       Image: Special Test Certificates ate		Llovets Kegister	other Confirmation	CE EG-Konf.
Special Test Certific- ate		Kegister		C C EG-Konf.
Special Test Certific-		Kegister		Сс БG-Konf.
Special Test Certific- ate		Kegister		<b>E</b> G-Konf.
Special Test Certific- ate		Kegister		<b>C</b> EG-Konf.
Special Test Certific- ate       Image: Certific- Sector       Image: Certific- Sector         LL/CSA ratings       Image: Certific- Sector       Image: Certific- Sector       Image: Certific- Sector         Vielded mechanical performance [hp] for 3-phase AC motor       Image: Certific- Sector       Image: Certific- Sector	hp	Kegister		<b>C</b> EG-Konf.
Special Test Certific- ate ABS UL/CSA ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V	hp			<b>C</b> C-Konf.
Special Test Certific- ate       Image: Certific- ate         ABS       Image: Certific- weight of the second	hp			<b>E</b> G-Konf.
Special Test Certific- ate       Image: Certific- ate         Junctified       Image: Certific- ate         Vielded 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 inside-delta circuit at 50 °C rated value	÷	450		<b>C</b> EG-Konf.
Special Test Certific- ate       Image: Certific- ate         Image: ABS       Image: Certific- ate         Image: ABS       Image: Certific- ate         Image: Certific- ate	hp	450 300		<b>C</b> C-Konf.
Special Test Certific- ate       Image: Certific- bit S         ABS       Image: Certific- bit S         L/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         • at 460/480 V — at standard circuit at 50 °C rated value	hp	450 300 600 700		<b>C</b> G-Konf.
Special Test Certific- ate       Image: Certific- inside         ABS       Image: Certific- inside         Vielded 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 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 460/480 V	hp hp	450 300 600		<b>C</b> C-Konf.
Special Test Certific- ate       Image: Certific- bit S         ABS       Image: Certific- bit S         L/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         • at 460/480 V — at standard circuit at 50 °C rated value	hp hp hp	450 300 600 700		<u>C</u> G-Konf.
Special Test Certific- ate       Image: Special Test Certific- ate         Image: Special Test Certific- ate       Image: Special Test Certific- Special Test Certific- ate         Image: Special Test Certific- ate       Image: Special Test Certific- Special Test Certific- Special Test Certific- ate         View: Special Test Certific- ate       Image: Special Test Certific- Special Test Certific- Special Test Certific- motor         View: Special Test Certific- special Test Certific- motor       Image: Special Test Certific- Special Test Certific- motor         View: Special Test Certific- motor       Image: Special Test Certific- motor         Image: View: Special Test Certific- motor       Image: Special Test Certific- motor         Image: View: Special Test Certific- motor       Image: Special Test Certific- motor         Image: View: Special Test Certific- motor       Image: Special Test Certific- motor         Image: View: Special Test Certific- motor       Image: Special Test Certific- motor         Image: View: Special Test Certific- motor       Image: Special Test Certific- motor         Image: View: Special Test Certific- motor       Image: Special Test Certific- motor         Image: View: Special Test Certific- motor       Image: Special Test Certific- Test Certest Certest Certific- Test Certific- Test Certific- Te	hp hp hp	450 300 600 700 1 200		<u>C</u> G-Konf.

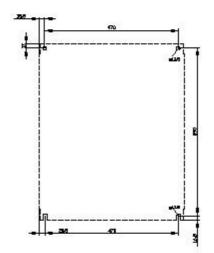
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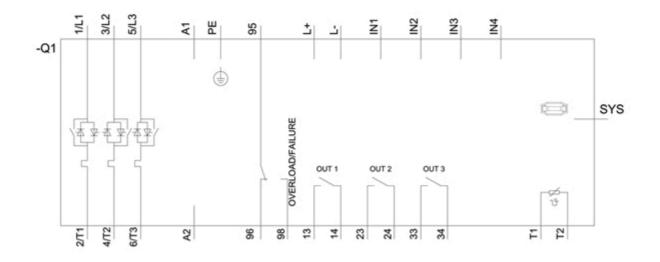
Cax online generator

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last modified:

1/18/2021 🖸