3RW4436-2BC35

# SIEMENS



### Data sheet



SIRIUS soft starter Values at 575 V, 50 °C standard: 145 A, 125 hp Inside-delta: 251 A, 250 hp 400-600 V AC, 115 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5536-2HA16<<

General technical data		
product brand name	_	SIRIUS
product feature		
<ul> <li>integrated bypass contact system</li> </ul>		Yes
thyristors	_	Yes
product function		
<ul> <li>intrinsic device protection</li> </ul>		Yes
<ul> <li>motor overload protection</li> </ul>		Yes
<ul> <li>evaluation of thermistor motor protection</li> </ul>		Yes
<ul> <li>external reset</li> </ul>		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 according to EN 61346-2		Q
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750		G
Power Electronics		
product designation		Soft starter
operational current		
<ul> <li>at 40 °C rated value</li> </ul>	А	162
• at 50 °C rated value	А	145
• at 60 °C rated value	А	125
operational current for 3-phase motors at inside-delta circuit		
<ul> <li>at 40 °C rated value</li> </ul>	A	281
• at 50 °C rated value	А	251
<ul> <li>at 60 °C rated value</li> </ul>	А	217
yielded mechanical performance for 3-phase motors		
• at 400 V		
— at standard circuit at 40 °C rated value	kW	90
- at inside-delta circuit at 40 °C rated value	kW	160
• at 500 V		
— at standard circuit at 40 °C rated value	kW	110
- at inside-delta circuit at 40 °C rated value	kW	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	400 600

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relative negative tolerance of the operating voltage at standard circuit	%	<sup>-15</sup> ( ) dientudong
relative positive tolerance of the operating voltage at standard circuit	%	
operating voltage at inside-delta circuit rated value	V	400 600
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	32
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	95
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		
<ul> <li>at 50 Hz rated value</li> </ul>	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	170
height	mm	200
depth	mm	270
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 3
number of NO contacts for auxiliary contacts		3
number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for		
main contacts for box terminal using the front clamping point		
<ul> <li>finely stranded with core end processing</li> </ul>		16 70 mm²
<ul> <li>finely stranded without core end processing</li> </ul>		16 70 mm²
stranded		16 70 mm²
type of connectable conductor cross-sections for main contacts for box terminal using the back		

clamping point					\dion4	tudong
-	with core end processin	-		16 nm²	) JIII PII	
,	without core end proces	ssing		16	Juion	uuung
stranded				16 70		
	e conductor cross-sect ox terminal using both					
<ul> <li>finely stranded</li> </ul>	with core end processin	g		max. 1x 50 mm	1², 1x 70 mm²	
<ul> <li>finely stranded</li> </ul>	without core end proces	ssing		max. 1x 50 mm	1², 1x 70 mm²	
<ul> <li>stranded</li> </ul>				max. 2x 70 mm	1 <sup>2</sup>	
	e conductor cross-sect ntacts for box terminal	ions at AWG				
<ul> <li>using the back</li> </ul>	1 01			6 2/0		
<ul> <li>using the front</li> </ul>				6 2/0		
<ul> <li>using both clar</li> </ul>				max. 2x 1/0		
type of connectable cable lug for main of	e conductor cross-sect contacts	ions for DIN				
<ul> <li>finely stranded</li> </ul>				16 95 mm²		
<ul> <li>stranded</li> </ul>				25 120 mm²		
type of connectable auxiliary contacts	e conductor cross-sect	ions for				
<ul> <li>solid</li> </ul>				2x (0.25 1.5	mm²)	
-	with core end processin	-		2x (0.25 1.5	mm²)	
type of connectable cables	e conductor cross-sect	ions at AWG				
<ul> <li>for main contact</li> </ul>	cts			4 250 kcmil		
<ul> <li>for auxiliary co</li> </ul>	ntacts			2x (24 16)		
Ambient conditions						
installation altitude	at height above sea le	vel	m	5 000		
environmental cate	gory					
<ul> <li>during transport</li> </ul>	rt according to IEC 6072	1		2K2, 2C1, 2S1	, 2M2 (max. fall height	: 0.3 m)
<ul> <li>during storage</li> </ul>	according to IEC 60721				sional condensation),	
<ul> <li>during operation</li> </ul>	on according to IEC 6072	21		3K6 (no format	at not get inside the de ion of ice, no condens id must not get into the	ation), 3C3 (no salt
ambient temperatur	re				-	,
<ul> <li>during operation</li> </ul>	<ul> <li>during operation</li> </ul>		°C	60		
during storage			°C	-25 +80		
derating temperatu	derating temperature		°C	40		
protection class IP 60529	on the front according	to IEC		IP00; IP20 with	box terminal/cover	
touch protection on	the front according to	IEC 60529		finger-safe, for terminal/cover	vertical contact from t	he front with box
Certificates/ approva	ls					
General Product A	pproval					EMC
						•
<b>(G</b>	<b>Confirmation</b>	(m)		Ē	гпг	
QC.		<u>m</u>		<b>W</b>	FHI	<u></u>
CSA		ccc		UL	<b>F11P</b>	RCM
Declaration of	Test Certificates		D.	arine / Shipping		
Conformity	Test Certificates			anne / Snipping		
~ ~	Special Test Certific-	Type Test Certi	ific-	State State	A BAR	
(F	ate	ates/Test Repo		1 221	e Xe e	Register
EG-Konf.				ADS		URS
1. 1. TANK				600	BUREAU VERITAS	LND
Marine / Shipping		other				

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**Confirmation** 



UL/CSA ratings			
yielded mechanical performance [hp] for 3-phase AC motor			
• at 460/480 V			
<ul> <li>— at standard circuit at 50 °C rated value</li> </ul>	hp	100	
- at inside-delta circuit at 50 °C rated value	hp	200	
• at 575/600 V			
<ul> <li>— at standard circuit at 50 °C rated value</li> </ul>	hp	125	
- at inside-delta circuit at 50 °C rated value	hp	250	
contact rating of auxiliary contacts according to UL		B300 / R300	
Surther information			

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)

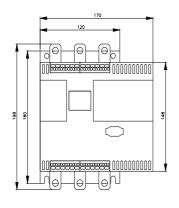
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4436-2BC35

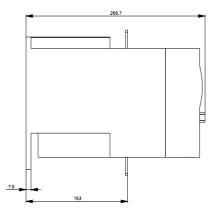
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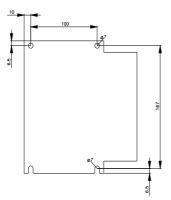
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4436-2BC35

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4436-2BC35

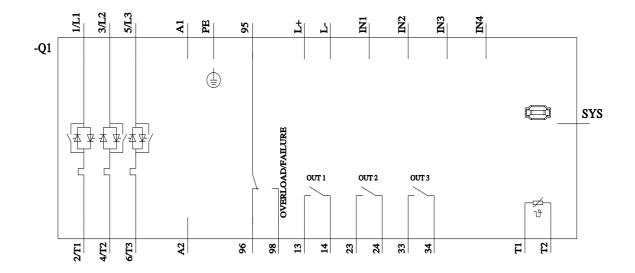
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4436-2BC35&lang=en











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