3RW4446-2BC35

# SIEMENS



### Data sheet



SIRIUS soft starter Values at 575 V, 50 °C standard: 315 A, 300 hp Inside-delta: 546 A, 600 hp 400-600 V AC, 115 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5546-2HA16<<

General technical data		
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
<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>	A	356
<ul> <li>at 50 °C rated value</li> </ul>	A	315
• at 60 °C rated value	А	280
operational current for 3-phase motors at inside-delta circuit		
<ul> <li>at 40 °C rated value</li> </ul>	А	617
<ul> <li>at 50 °C rated value</li> </ul>	A	546
• at 60 °C rated value	A	485
yielded mechanical performance for 3-phase motors		
• at 400 V		
— at standard circuit at 40 °C rated value	kW	200
— at inside-delta circuit at 40 °C rated value	kW	355
● at 500 V		
— at standard circuit at 40 °C rated value	kW	250
— at inside-delta circuit at 40 °C rated value	kW	450
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	%	
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	71
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	174
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	210
height	mm	230
depth	mm	298
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 number of CO contacts for auxiliary contacts		3
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>		70 240 mm²
<ul> <li>finely stranded without core end processing</li> </ul>		70 240 mm²
stranded		95 300 mm²
type of connectable conductor cross-sections for main contacts for box terminal using the back		

clamping point					h \dion	tudona	
-	with core end processi	-		120 5 m		tudong	
<ul> <li>finely stranded</li> </ul>	without core end proce	ssing		120 .		cuuong	
<ul> <li>stranded</li> </ul>				120 2	m <sup>2</sup>		
	e conductor cross-sec oox terminal using bot						
<ul> <li>finely stranded</li> </ul>	with core end processi	ng		min. 2x 50 m	m², max. 2x 185 mm²		
<ul> <li>finely stranded</li> </ul>	I without core end proce	ssing		min. 2x 50 m	m², max. 2x 185 mm²		
<ul> <li>stranded</li> </ul>		0			max. 2x 70 mm², max. 2x 240 mm²		
type of connectable	e conductor cross-sec	tions at AWG					
cables for main cor	ntacts for box terminal						
<ul> <li>using the back</li> </ul>	clamping point			250 500 ko	250 500 kcmil		
<ul> <li>using the front</li> </ul>	clamping point			3/0 600 kcmil			
<ul> <li>using both clar</li> </ul>	mping points			min. 2x 2/0, r	max. 2x 500 kcmil		
	e conductor cross-sec	tions for DIN					
cable lug for main o				50 040	2		
<ul> <li>finely stranded</li> </ul>				50 240 mn			
stranded				70 240 mn	n²		
auxiliary contacts	e conductor cross-sec	tions for					
• solid				2x (0.25 1			
	with core end processi	<u> </u>		2x (0.25 1	.5 mm²)		
type of connectable cables	e conductor cross-sec	tions at AWG					
for main contain	cts			2/0 500 kc	mil		
<ul> <li>for auxiliary co</li> </ul>				2x (24 16)			
Ambient conditions							
	at height above sea le	wol	m	5 000			
environmental cate	-			5 000			
	rt according to IEC 6072	21		2K2 2C1 25	S1 2M2 (max_fall heid)	at 0.3 m)	
	according to IEC 6072				2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 n 1K6 (only occasional condensation), 1C2 (		
• during storage					ust not get inside the d		
<ul> <li>during operation</li> </ul>	on according to IEC 607	21		,	ation of ice, no conden and must not get into th		
ambient temperatu	ambient temperature						
<ul> <li>during operation</li> </ul>		°C	60				
during storage			°C	-25 +80			
derating temperature			°C	40			
protection class IP 60529	protection class IP on the front according to IEC 60529			IP00; IP20 w	IP00; IP20 with box terminal/cover		
touch protection on the front according to IEC 60529			finger-safe, fo terminal/cove	or vertical contact from er	the front with box		
Certificates/ approva	ls						
General Product A	pproval					EMC	
	<b>Confirmation</b>	(m)		ŝ	r M F	A	
(QP)		( <b>m</b> )		(ŸL)	FHI	<u>/\/</u>	
CSA		CCC		<u> </u>	LIIL	RCM	
Deale the f							
Declaration of Conformity	<b>Test Certificates</b>			Marine / Shipping			
contorning							
	Type Test Certific-	Special Test Ce	ertific-	and the second	A A A A A A A A A A A A A A A A A A A		
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				An and the		T CONTEN	
EG-Konf.				ABS	BUREAU	LRS	
					1211111		
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	250
- at inside-delta circuit at 50 °C rated value	hp	450
• at 575/600 V		
<ul> <li>— at standard circuit at 50 °C rated value</li> </ul>	hp	300
- at inside-delta circuit at 50 °C rated value	hp	600
contact rating of auxiliary contacts according to UL		B300 / R300
Further 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)

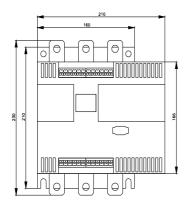
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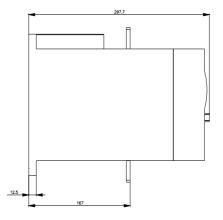
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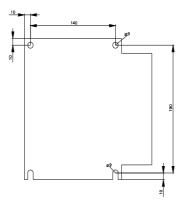
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4446-2BC35 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

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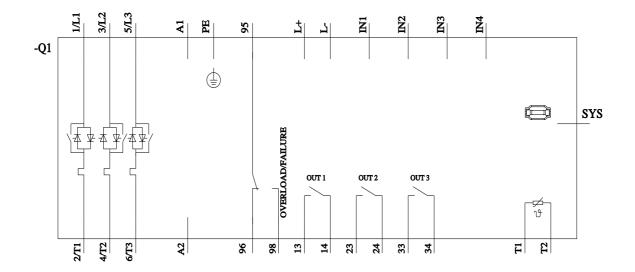
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4446-2BC35&lang=en











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