## **SIEMENS**

Data sheet 3RW4447-6BC35



SIRIUS soft starter Values at 575 V, 50 °C standard: 385 A, 400 hp Inside-delta: 667 A, 750 hp 400-600 V AC, 115 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5547-6HA16<<

eneral technical data				
product brand name		SIRIUS		
product feature				
<ul> <li>integrated bypass contact system</li> </ul>		Yes		
<ul><li>thyristors</li></ul>		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 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>	Α	432		
<ul> <li>at 50 °C rated value</li> </ul>	Α	385		
at 60 °C rated value	Α	335		
operational current for 3-phase motors at inside-delta circuit				
<ul> <li>at 40 °C rated value</li> </ul>	Α	748		
<ul> <li>at 50 °C rated value</li> </ul>	Α	667		
<ul> <li>at 60 °C rated value</li> </ul>	Α	580		
yielded mechanical performance for 3-phase motors				
• at 400 V				
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	W	250 000		
<ul> <li>— at inside-delta circuit at 40 °C rated value</li> </ul>	W	400 000		
• at 500 V				
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	W	315 000		
<ul> <li>at inside-delta circuit at 40 °C rated value</li> </ul>	W	500 000		
operating frequency rated value	Hz	50 60		
relative negative tolerance of the operating frequency	%	-10		

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relative positive tolerance of the operating frequency	%	10		
operating voltage at standard circuit rated value	V	400 600		
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	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	Α	86		
continuous operating current [% of le] at 40 °C	%	115		
power loss [W] at operational current at 40 °C during operation typical	W	232		
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				
<ul> <li>for main current circuit</li> </ul>		busbar connection		
for auxiliary and control circuit		screw-type 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 main contacts for box terminal using the front clamping point				
finely stranded with core end processing		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				
<ul> <li>finely stranded with core end processing</li> </ul>		120 185 mm	2	
<ul> <li>finely stranded without core end processing</li> </ul>		120 185 mm	2	
• stranded		120 240 mm	2	
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points				
<ul> <li>finely stranded with core end processing</li> </ul>		min. 2x 50 mm	², max. 2x 185 mm²	2
<ul> <li>finely stranded without core end processing</li> </ul>		min. 2x 50 mm	², max. 2x 185 mm²	2
<ul><li>stranded</li></ul>		max. 2x 70 mm	n², max. 2x 240 mm	l <sup>2</sup>
type of connectable conductor cross-sections at AWG cables for main contacts for box terminal				
<ul> <li>using the back clamping point</li> </ul>		250 500 kcm	nil	
<ul> <li>using the front clamping point</li> </ul>		3/0 600 kcm	il	
using both clamping points		min. 2x 2/0, ma	x. 2x 500 kcmil	
type of connectable conductor cross-sections for DIN cable lug for main contacts				
<ul> <li>finely stranded</li> </ul>		50 240 mm²		
stranded		70 240 mm²		
type of connectable conductor cross-sections for auxiliary contacts				
• solid		2x (0.5 2.5 n	nm²)	
finely stranded with core end processing		2x (0.5 1.5 n	nm²)	
type of connectable conductor cross-sections at AWG cables				
for main contacts		2/0 500 kcm	il	
<ul> <li>for auxiliary contacts</li> </ul>		2x (20 14)		
<ul> <li>for auxiliary contacts finely stranded with core end processing</li> </ul>		2x (20 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>			2M2 (max. fall hei	,
during storage acc. to IEC 60721		1K6 (only occa 1S2 (sand mus	sional condensation that get inside the	n), 1C2 (no salt mist), devices), 1M4
<ul> <li>during operation acc. to IEC 60721</li> </ul>		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6		
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; IP20 with box terminal/cover		
touch protection on the front acc. to IEC 60529		finger-safe, for vertical contact from the front with box terminal/cover		
ertificates/ approvals				

General Product Approval EMC Declaration of Conformity













Test Certificates

Marine / Shipping









## Marine / Shipping

other



## 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	300		
<ul> <li>at inside-delta circuit at 50 °C rated value</li> </ul>	hp	600		
• at 575/600 V				
<ul> <li>at standard circuit at 50 °C rated value</li> </ul>	hp	400		
<ul> <li>at inside-delta circuit at 50 °C rated value</li> </ul>	hp	750		
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=3RW4447-6BC35

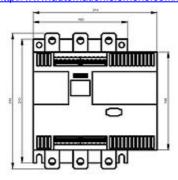
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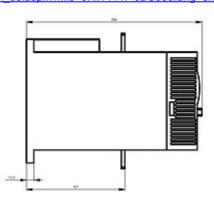
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4447-6BC35

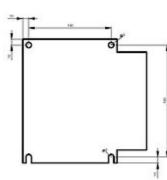
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

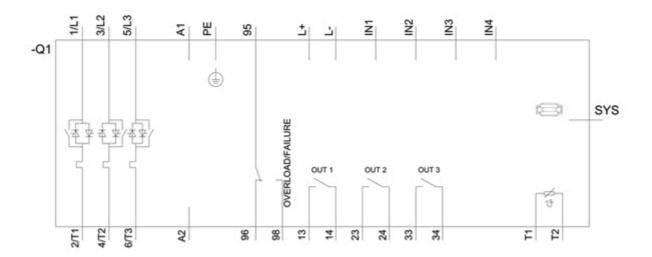
https://support.industry.siemens.com/cs/ww/en/ps/3RW4447-6BC35

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax">http://www.automation.siemens.com/bilddb/cax</a> de.aspx?mlfb=3RW4447-6BC35&lang=en









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