SIEMENS

Data sheet 3RW4446-2BC36



SIRIUS soft starter Values at 575 V, 50 °C standard: 315 A, 300 hp Inside-delta: 546 A, 600 hp 400-690 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					
 integrated bypass contact system 		Yes			
thyristors		Yes			
product function					
 intrinsic device protection 		Yes			
 motor overload protection 		Yes			
 evaluation of thermistor motor protection 		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					
 at 40 °C rated value 	Α	356			
 at 50 °C rated value 	Α	315			
at 60 °C rated value	Α	280			
operational current for 3-phase motors at inside-delta circuit					
 at 40 °C rated value 	Α	617			
 at 50 °C rated value 	Α	546			
at 60 °C rated value	Α	485			
yielded mechanical performance for 3-phase motors					
• at 400 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 500 V					
 at standard circuit at 40 °C rated value 	W	250 000			
 at inside-delta circuit at 40 °C rated value 	W	450 000			
at 690 V at standard circuit at 40 °C rated value	W	355 000			
operating frequency rated value	Hz	50 60			

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Mechanical data width mm 210			
width mm 210			
height mm 230			
depth mm 298			
fastening method screw fixing			
mounting position with vertical mounting surface +/-90° rotatable, vertical mounting surface +/- 22.5° tiltable to the 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			
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			

stranded type of connectable conductor cross-sections at AWG		max. 2x 70 mn	n², max. 2x 240 mm²	
finely stranded with core end processingfinely stranded without core end processing		min. 2x 50 mm	² , max. 2x 185 mm ² ² , max. 2x 185 mm ²	
		max. 2x 70 mm	II-, IIIax. 2x 240 IIIIII-	
cables for main contacts for box terminal				
 using the back clamping point 		250 500 kcn	nil	
 using the front clamping point 		3/0 600 kcm	il	
 using both clamping points 		min. 2x 2/0, ma	ax. 2x 500 kcmil	
type of connectable conductor cross-sections for DIN cable lug for main contacts				
finely stranded		50 240 mm ²		
stranded		70 240 mm²		
type of connectable conductor cross-sections for auxiliary contacts				
• solid		2x (0.25 1.5	mm²)	
finely stranded with core end processing		2x (0.25 1.5	mm²)	
type of connectable conductor cross-sections at AWG cables				
for main contacts		2/0 500 kcm	il	
for auxiliary contacts		2x (24 16)		
Ambient conditions				
installation altitude at height above sea level	m	5 000		
environmental category				
 during transport acc. to IEC 60721 		2K2, 2C1, 2S1	, 2M2 (max. fall height	0.3 m)
during storage acc. to IEC 60721		` ,	nsional condensation), st not get inside the dev	\ //
during operation acc. to IEC 60721		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6		
ambient temperature				
during operation	°C	60		
during storage	°C	-25 +80		
derating temperature	°C	40		
protection class IP on the front acc. to IEC 60529		IP00; IP20 with	n box terminal/cover	
touch protection on the front acc. to IEC 60529		finger-safe, for vertical contact from the front with box		
•		terminal/cover		
Certificates/ approvals				













Test Certificates

Marine / Shipping









Marine / Shipping

other



Confirmation

UL/CSA ratings		
yielded mechanical performance [hp] for 3-phase AC motor		
• at 460/480 V		
 at standard circuit at 50 °C rated value 	hp	250
 at inside-delta circuit at 50 °C rated value 	hp	450
• at 575/600 V		
 at standard circuit at 50 °C rated value 	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

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=3RW4446-2BC36

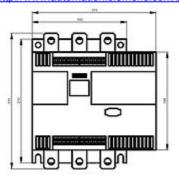
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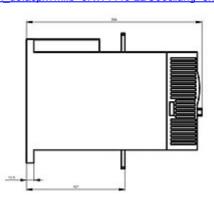
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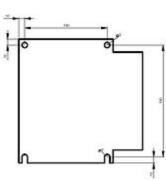
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

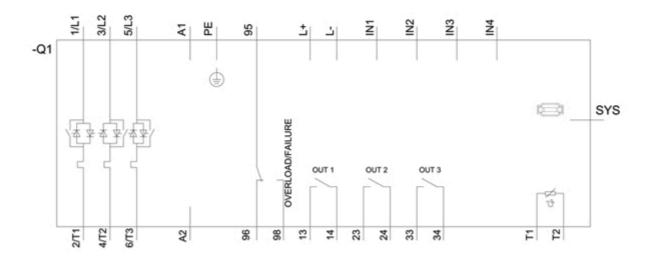
https://support.industry.siemens.com/cs/ww/en/ps/3RW4446-2BC36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RW4446-2BC36&lang=en









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