## **SIEMENS**



Data sheet 3RW4456-2BC36



SIRIUS soft starter Values at 575 V, 50 °C standard: 693 A, 750 hp Inside-delta: 1200 A, 1350 hp 400-690 V AC, 115 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5554-2HA16<<

General 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
external reset		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>	Α	780
<ul> <li>at 50 °C rated value</li> </ul>	Α	693
at 60 °C rated value	Α	615
operational current for 3-phase motors at inside-delta circuit		
<ul> <li>at 40 °C rated value</li> </ul>	Α	1 351
• at 50 °C rated value	А	1 200
<ul> <li>at 60 °C rated value</li> </ul>	Α	1 065
yielded mechanical performance for 3-phase motors		
• at 400 V		
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	kW	450
<ul> <li>at inside-delta circuit at 40 °C rated value</li> </ul>	kW	800
• at 500 V		
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	kW	560
<ul> <li>at inside-delta circuit at 40 °C rated value</li> </ul>	kW	900
<ul> <li>at 690 V at standard circuit at 40 °C rated value</li> </ul>	kW	800
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 .
relative negative tolerance of the operating voltage at standard circuit	%	-15 dientudong
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	А	156
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	214
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
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 DIN cable lug for main contacts		
• finely stranded		50 240 mm²
• stranded		70 240 mm²
type of connectable conductor cross-sections for auxiliary contacts		

solid     finely stranded with core end processing  type of connectable conductor cross-sections at AWG cables		2x (0 2x (0 . 1.5 mm²)	tudong
for main contacts		2/0 500 kcmil	
for auxiliary contacts		2x (24 16)	
Ambient conditions			
installation altitude at height above sea level	m	5 000	
environmental category			
<ul> <li>during transport according to IEC 60721</li> </ul>		2K2, 2C1, 2S1, 2M2 (max. fall height	0.3 m)
<ul> <li>during storage according to IEC 60721</li> </ul>		1K6 (only occasional condensation), 1S2 (sand must not get inside the de	
<ul> <li>during operation according to IEC 60721</li> </ul>		3K6 (no formation of ice, no condense mist), 3S2 (sand must not get into the	
ambient temperature			
<ul><li>during operation</li></ul>	°C	60	
<ul> <li>during storage</li> </ul>	°C	-25 +80	
derating temperature	°C	40	
protection class IP on the front according to IEC 60529		IP00	
Certificates/ approvals			
General Product Approval			EMC



Confirmation









Declaration of Conformity Test Certificates	Marine / Shipping	other
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Special Test Certificate







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	600	
<ul> <li>at inside-delta circuit at 50 °C rated value</li> </ul>	hp	1 050	
● at 575/600 V			
<ul> <li>at standard circuit at 50 °C rated value</li> </ul>	hp	750	
<ul> <li>at inside-delta circuit at 50 °C rated value</li> </ul>	hp	1 350	
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=3RW4456-2BC36

Cax online generator

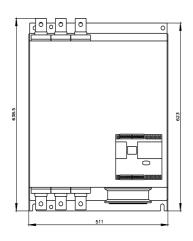
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4456-2BC36

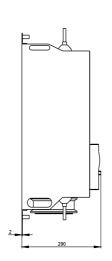
 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$ 

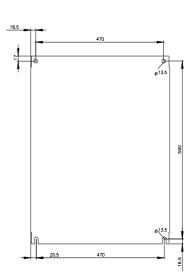
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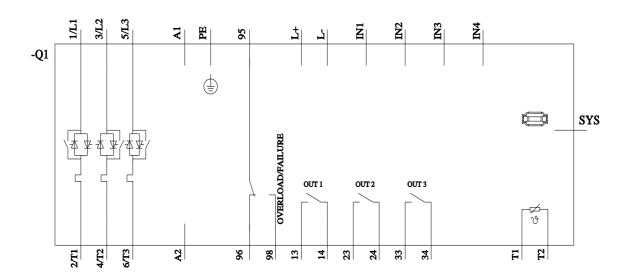
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax">http://www.automation.siemens.com/bilddb/cax</a> de.aspx?mlfb=3RW4456-2BC36&lang=en











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