## SIEMENS

## Data sheet

## 3RW4453-6BC36



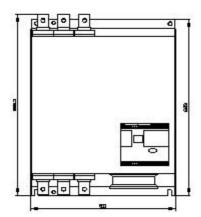
SIRIUS soft starter Values at 575 V, 50 °C standard: 494 A, 500 hp Inside-delta: 856 A, 950 hp 400-690 V AC, 115 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5548-6HA16<<

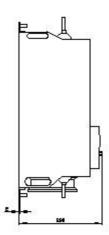
General technical data		
product brand name		SIRIUS
product feature	-	
<ul> <li>integrated bypass contact system</li> </ul>		Yes
thyristors		Yes
product function		
<ul> <li>intrinsic device protection</li> </ul>		Yes
<ul> <li>motor overload protection</li> </ul>		Yes
<ul> <li>evaluation of thermistor 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 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>	А	551
<ul> <li>at 50 °C rated value</li> </ul>	A	494
• at 60 °C rated value	А	438
operational current for 3-phase motors at inside-delta circuit		
<ul> <li>at 40 °C rated value</li> </ul>	А	954
<ul> <li>at 50 °C rated value</li> </ul>	А	856
• at 60 °C rated value	A	759
yielded mechanical performance for 3-phase motors		
• at 400 V		
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	W	315 000
- at inside-delta circuit at 40 °C rated value	W	560 000
• at 500 V		
- at standard circuit at 40 °C rated value	W	355 000
— at inside-delta circuit at 40 °C rated value	W	630 000
<ul> <li>at 690 V at standard circuit at 40 °C rated value</li> </ul>	W	560 000
operating frequency rated value	Hz	50 60

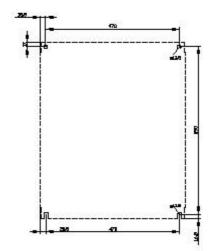
	- 0/	40
relative negative tolerance of the operating frequency	%	-10
relative positive tolerance of the operating frequency	%	10
operating voltage at standard circuit rated value	V	400 690
relative negative tolerance of the operating voltage at standard circuit	%	-15
relative positive tolerance of the operating voltage atstandard 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	110
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during	W	159
operation typical		
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	%	-10
voltage frequency	_	
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	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		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 DIN		
cable lug for main contacts		50 240 mm²
<ul> <li>finely stranded</li> </ul>		JU 240 IIIIII

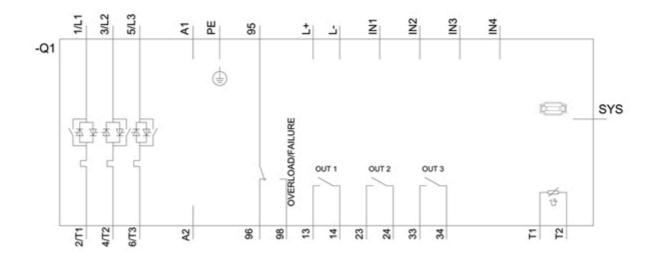
			0		
stranded		70 240 mm	2		
type of connectable conductor cross-sections for auxiliary contacts					
		0x (0 E 0 E	mm <sup>2</sup> )		
• solid		2x (0.5 2.5 mm <sup>2</sup> )			
• finely stranded with core end processing		2x (0.5 1.5 mm²)			
type of connectable conductor cross-sections at AWG cables					
for main contacts		2/0 500 kcr	nil		
			1111		
for auxiliary contacts		2x (20 14)			
<ul> <li>for auxiliary contacts finely stranded with core end processing</li> </ul>		2x (20 16)			
Imbient conditions					
installation altitude at height above sea level	m	5 000			
environmental category					
<ul> <li>during transport acc. to IEC 60721</li> </ul>		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)			
<ul> <li>during storage acc. to IEC 60721</li> </ul>		1K6 (only occ	asional condensation)	, 1C2 (no salt mist),	
		1S2 (sand mu	ist not get inside the d	evices), 1M4	
• 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			
Certificates/ approvals					
	_			Declaration of	
				Declaration of	
General Product Approval		EHC		Conformity C E EG-Konf.	
General Product Approval		EHC		CE	
General Product Approval         Image: Construct Approval     <		EAC	EMC RCM	CE	
Test Certificates Marine / Shipping		EAC	CM other	CE	
		EAC	RCM	CE	
Image: Constraint of the second se		EAC	CM other	CE	
Image: Constraint of the second se		EAC Lloyds Register	CM other	CE	
Image: Constraint of the second se		ERC Lloyd's Kegister us	CM other	CE	
Image: Second Test Certificates   Special Test Certificates   ate     Image: Second Test Certificates     Special Test Certificates     Image: Second Test Certificates		EAC Llovels Lus	CM other	CE	
Image: Section of the sec		EAC Lloyds Register Lis	CM other	CE	
Image: Second system       Image: Second system       Image: Second system         Test Certificates       Marine / Shipping         Special Test Certificates       Image: Second system         ate       Image: Second system         VL/CSA ratings       Image: Second system         yielded mechanical performance [hp] for 3-phase AC		EAC Loyds Lus	CM other	CE	
Image: Non-State       Image: Non-State       Image: Non-State         Test Certificates       Marine / Shipping         Special Test Certificate       Image: Non-State         ate       Image: Non-State         U/CSA ratings       Image: Non-State         yielded mechanical performance [hp] for 3-phase AC motor		EAC Lis	CM other	CE	
Image: Window Stress	hn		CM other	CE	
Image: Window State   Image: Special Test Certificates   Marine / Shipping   Special Test Certificates   ate   Image: Special Test Certificate   Image: Special Test Certificate <td>hp</td> <td>400</td> <td>CM other</td> <td>CE</td>	hp	400	CM other	CE	
Image: Note of the sector o	hp		CM other	CE	
Image: Note of the sector o	hp	400 750	CM other	CE	
Image: Note of the second s	hp hp	400 750 500	CM other	CE	
Image: Constraint of the second se	hp	400 750 500 950	CM other	CE	
Image: Note of the second s	hp hp	400 750 500	CM other	CE	
Image: Constraint of the system of the sy	hp hp	400 750 500 950	CM other	CE	
Image: Arrow of the construction of	hp hp hp	400 750 500 950	CM other	CE	
Image: Note of the sector o	hp hp hp	400 750 500 950	CM other	CE	
Image: Note of the sector o	hp hp hp	400 750 500 950	CM other	CE	
Image: Note of the sector o	hp hp hp	400 750 500 950	CM other	CE	
Image: Note of the sector o	hp hp hp <u>hp</u>	400 750 500 950 B300 / R300	CM other	CE	
Image: Note of the sector o	hp hp hp <u>hp</u>	400 750 500 950 B300 / R300	CM other	CE	

## Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4453-6BC36 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4453-6BC36&lang=en









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