SIEMENS



Data sheet 3RW4453-2BC36



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 spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5548-2HA16<<

General technical data		<u>, </u>
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 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		
 at 40 °C rated value 	Α	551
 at 50 °C rated value 	Α	494
at 60 °C rated value	Α	438
operational current for 3-phase motors at inside-delta circuit		
 at 40 °C rated value 	А	954
 at 50 °C rated value 	Α	856
 at 60 °C rated value 	А	759
yielded mechanical performance for 3-phase motors		
● at 400 V		
 at standard circuit at 40 °C rated value 	kW	315
 at inside-delta circuit at 40 °C rated value 	kW	560
• at 500 V		
 at standard circuit at 40 °C rated value 	kW	355
 — at inside-delta circuit at 40 °C rated value 	kW	630
 at 690 V at standard circuit at 40 °C rated value 	kW	560
operating frequency rated value	Hz	50 60
relative negative tolerance of the operating frequency	%	-10
relative positive tolerance of the operating frequency	%	10

	V	400
operating voltage at standard circuit rated value		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	Α	110
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	159
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 5 mm ³) 2x (0 . 1.5 mm ²	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				
 during transport according to IEC 60721 		2K2, 2C1, 2S1, 2M2 (max. fall height	0.3 m)	
 during storage according to IEC 60721 		1K6 (only occasional condensation), 1S2 (sand must not get inside the de		
 during operation according to IEC 60721 		3K6 (no formation of ice, no condense mist), 3S2 (sand must not get into the		
ambient temperature	•			
 during operation 	°C	60		
 during storage 	°C	-25 +80		
derating temperature	°C	40		
protection class IP on the front according to IEC 60529		IP00		
Certificates/ approvals				
General Product Approval			EMC	

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Confirmation







Declaration of Conformity

Test Certificates Marine / Shipping other



Special Test Certificate







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	400		
 at inside-delta circuit at 50 °C rated value 	hp	750		
● at 575/600 V				
 at standard circuit at 50 °C rated value 	hp	500		
 at inside-delta circuit at 50 °C rated value 	hp	950		
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=3RW4453-2BC36

Cax online generator

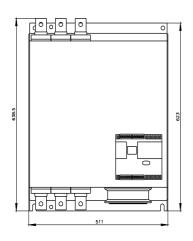
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4453-2BC36

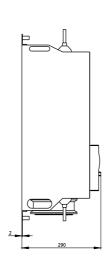
 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$

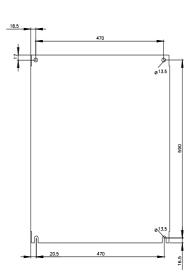
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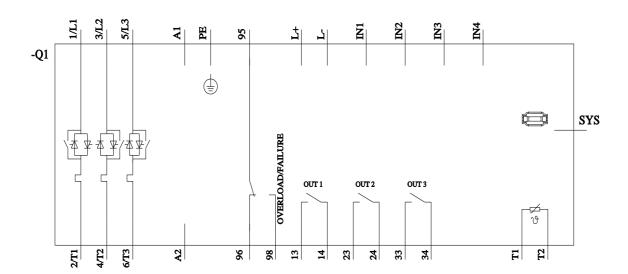
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RW4453-2BC36&lang=en











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