SIEMENS



Data sheet 3RW4453-2BC34



SIRIUS soft starter Values at 460 V, 50 °C standard: 494 A, 400 hp Inside-delta: 856 A, 750 hp 200-460 V AC, 115 V AC Spring-loaded terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5548-2HA14<<

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 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 	Α	954
 at 50 °C rated value 	Α	856
at 60 °C rated value	Α	759
yielded mechanical performance for 3-phase motors		
• at 230 V		
 at standard circuit at 40 °C rated value 	kW	160
 at inside-delta circuit at 40 °C rated value 	kW	315
• at 400 V		
 at standard circuit at 40 °C rated value 	kW	315
 — at inside-delta circuit at 40 °C rated value 	kW	560
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	150
operating frequency rated value	Hz	50 60

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relative negative tolerance of the operating frequency	%	-10
relative positive tolerance of the operating frequency	%	10 dientudong
operating voltage at standard circuit rated value	V	200 . Julouduony
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	200 460
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 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	%	-10
voltage frequency		
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		2x (0 mm² dien 2x (0.2x (0.2x 5 mx)²)	tudong
type of connectable conductor cross-sections at AWG cables			
 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 deviation)	
 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



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 200/208 V		
 at inside-delta circuit at 50 °C rated value 	hp	300
• at 220/230 V		
 at standard circuit at 50 °C rated value 	hp	200
 at inside-delta circuit at 50 °C rated value 	hp	350
• 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
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=3RW4453-2BC34

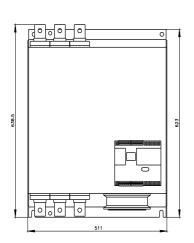
Cax online generator

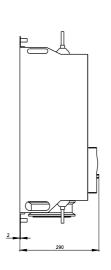
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4453-2BC34

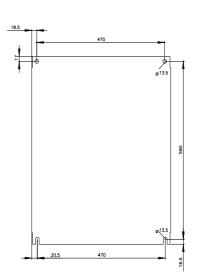
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

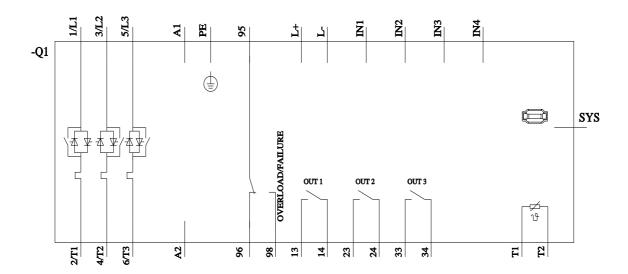
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