SIEMENS

Data sheet

3RW4453-6BC34



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 Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5548-6HA14<<

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 	А	551
 at 50 °C rated value 	А	494
 at 60 °C rated value 	А	438
operational current for 3-phase motors at inside-delta circuit		
 at 40 °C rated value 	А	954
 at 50 °C rated value 	А	856
• at 60 °C rated value	А	759
yielded mechanical performance for 3-phase motors		
• at 230 V		
 — at standard circuit at 40 °C rated value 	W	160 000
 — at inside-delta circuit at 40 °C rated value 	W	315 000
• at 400 V		
- at standard circuit at 40 °C rated value	W	315 000
— at inside-delta circuit at 40 °C rated value	W	560 000
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
relative negative tolerance of the operating frequency	%	-10
relative positive tolerance of the operating frequency	%	10
operating voltage at standard circuit rated value	V	200 460
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	A	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
		screw-type terminals
 for auxiliary and control circuit 		••
• for auxiliary and control circuit		0
for auxiliary and control circuit number of NC contacts for auxiliary contacts	-	
• for auxiliary and control circuit	-	0 3 1

		50 010	,	
finely stranded		50 240 mm ²		
• stranded		70 240 mm²		
type of connectable conductor cross-sections for auxiliary contacts				
• solid		2x (0.5 2.5 r	nm²)	
 finely stranded with core end processing 		2x (0.5 2.5 r		
type of connectable conductor cross-sections at AWG		27 (0.0 1.01)	
cables				
 for main contacts 		2/0 500 kcm	nil	
 for auxiliary contacts 		2x (20 14)		
 for auxiliary contacts finely stranded with core end 		2x (20 16)		
processing				
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 heigh	nt 0.3 m)
 during storage acc. to IEC 60721 			sional condensation)	
			st not get inside the d	,
 during operation acc. to IEC 60721 			tion of ice, no conden nd must not get into th	
ambient temperature		(3d)	ia must not get into ti	
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
General Product Approval		FAC	EMC	Conformity
General Product Approval		EAC		
General Product Approval Image: Constraint of the second		EAC	EMC ECM	Conformity
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Image: Special Test Certific- ate Marine / Shipping Special Test Certific- ate Image: Special Test Certific- ate JL/CSA ratings Image: Special Test Certific- ate		EAC Register us	CCM	Conformity
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Image: Note of the sector o	·	300	CCM	Conformity
Image: Note of the sector o	hp	300 200	CCM	Conformity
Image: Note of the sector o	hp	300 200	CCM	Conformity
Image: Constraint of the second se	hp hp	300 200 350	CCM	Conformity
Image: Windows Constraints Image: Windows Constraints Image: Windows Constraints Special Test Certificates Marine / Shipping Special Test Certificates Image: Windows Constraints Special Test Certificates Im	hp hp hp	300 200 350 400	CCM	Conformity
Image: Construction of the second	hp hp hp	300 200 350 400 750	CCM	Conformity
Image: Constraint of a standard circuit at 50 °C rated value • at standard circuit at 50 °C rated value • at standard circuit at 50 °C rated value • at standard circuit at 50 °C rated value • at standard circuit at 50 °C rated value • at standard circuit at 50 °C rated value • at standard circuit at 50 °C rated value • at standard circuit at 50 °C rated value • at standard circuit at 50 °C rated value • at standard circuit at 50 °C rated value • at standard circuit at 50 °C rated value • at standard circuit at 50 °C rated value • at standard circuit at 50 °C rated value • at standard circuit at 50 °C rated value • at standard circuit at 50 °C rated value • at standard circuit at 50 °C rated value • at inside-delta circuit at 50 °C rated value • at inside-delta circuit at 50 °C rated value • at inside-delta circuit at 50 °C rated value • at inside-delta circuit at 50 °C rated value	hp hp hp	300 200 350 400 750	CCM	Conformity
Image: Construction of the second	hp hp hp hp	300 200 350 400 750	CCM	Conformity
Image: Arrow of the second	hp hp hp hp	300 200 350 400 750	CCM	Conformity
Image: Sector	hp hp hp hp	300 200 350 400 750	CCM	Conformity

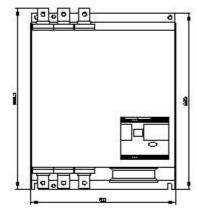
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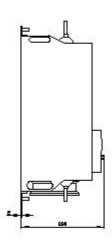
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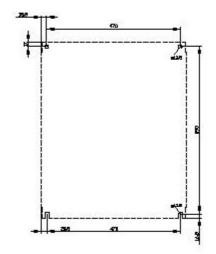
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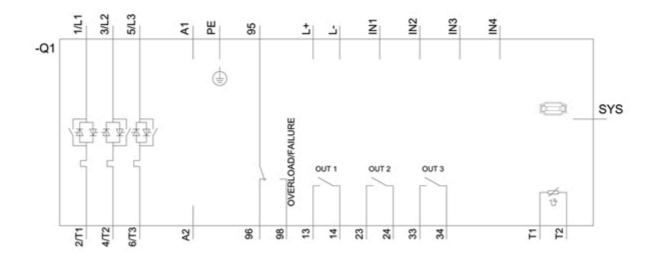
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last modified:

12/21/2020 🖸