SIEMENS

Data sheet

3RW4457-6BC34



SIRIUS soft starter Values at 460 V, 50 °C standard: 780 A, 700 hp Inside-delta: 1351 A, 1200 hp 200-460 V AC, 115 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5556-6HA14<<

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	880
 at 50 °C rated value 	А	780
• at 60 °C rated value	А	693
operational current for 3-phase motors at inside-delta circuit		
 at 40 °C rated value 	А	1 524
 at 50 °C rated value 	А	1 351
 at 60 °C rated value 	А	1 200
yielded mechanical performance for 3-phase motors		
• at 230 V		
 — at standard circuit at 40 °C rated value 	W	250 000
 — at inside-delta circuit at 40 °C rated value 	W	500 000
• at 400 V		
- at standard circuit at 40 °C rated value	W	500 000
- at inside-delta circuit at 40 °C rated value	W	900 000
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	250

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	176
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	250
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		1
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		

 finely stranded 		50 240 mm ²		
• stranded		70 240 mm ²	2	
type of connectable conductor cross-sections for				
auxiliary contacts		22 (0 5 2 5	mm ²)	
solid finally stranded with core and processing		2x (0.5 2.5 r		
finely stranded with core end processing		2x (0.5 1.5 r	1111 ⁻)	
type of connectable conductor cross-sections at AWG cables				
for main contacts		2/0 500 kcm	nil	
for auxiliary contacts		2x (20 14)		
 for auxiliary contacts for auxiliary contacts finely stranded with core end 		2x (20 14) 2x (20 16)		
processing		27 (20 10)		
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			asional condensation)	,
			st not get inside the d	
 during operation acc. to IEC 60721 			tion of ice, no conden	
		mist), 3S2 (sa	nd must not get into th	ne 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
General Product Approval		EAC		Conformity C E EG-Konf.
General Product Approval		EAC		CE
General Product Approval Image: Constraint of the second		EAC	EMC RCM other	CE
Image: Second system Image: Second system Image: Second system Image: Second system Test Certificates Marine / Shipping		EAC	RCM	CE
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Image: Special Test Certificates Marine / Shipping Special Test Certificates Marine / Shipping Special Test Certificates Image: Special Test Certificates ate Image: Special Test Certificates JL/CSA ratings Image: Special Test Certificates yielded mechanical performance [hp] for 3-phase AC		EAC Lloyds Lus	CCM	CE
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Image: Window Stress Image: Special Test Certificates Marine / Shipping Special Test Certificates ate Image: Special Test Certificates Image: Special Test Certificat	hp		CCM	CE
Image: Windows Constraints Image: Windows Constraints Image: Windows Constraints Special Test Certificates Marine / Shipping Image: Windows Constraints Special Test Certificates Image: Windows Constraints Image: Windows Constraints Special Test Certificates Image: Windows Constraints Image: Windows Constraints Special Test Certificates Image: Windows Constraints Image: Windows Constraints Special Test Certificates Image: Windows Constraints Image: Windows Constraints Special Test Certificates Image: Windows Constraints Image: Windows Constraints Special Test Certificates Image: Windows Constraints Image: Windows Constraints Special Test Certificates Image: Windows Constraints Image: Windows Constraints Special Test Certificates Image: Windows Constraints Image: Windows Constraints Special Test Certificates Image: Windows Constraints Image: Windows Constraints Special Test Certificates Image: Windows Constraints Image: Windows Constraints Special Test Certificates Image: Windows Constraints Image: Windows Constraints Special Test Certificates Image: Windows Constraints Image: Windows Constrates Special	hp		CCM	CE
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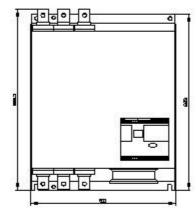
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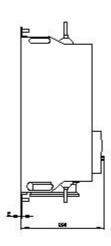
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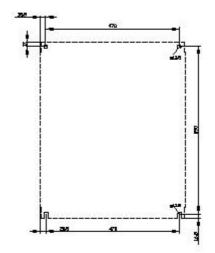
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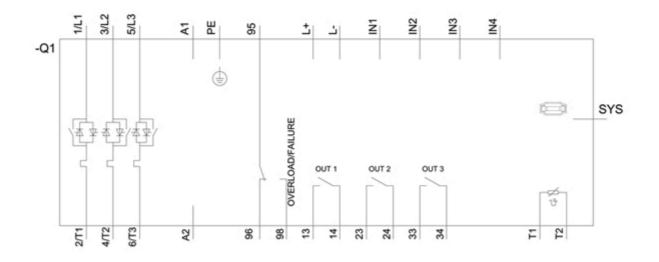
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