3RW4443-6BC34

SIEMENS



Data sheet



SIRIUS soft starter Values at 460 V, 50 °C standard: 180 A, 125 hp Inside-delta: 312 A, 250 hp 200-460 V AC, 115 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5543-6HA14<<

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 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 	А	203
 at 50 °C rated value 	А	180
 at 60 °C rated value 	А	156
operational current for 3-phase motors at inside-delta circuit		
 at 40 °C rated value 	А	352
 at 50 °C rated value 	А	312
 at 60 °C rated value 	А	270
yielded mechanical performance for 3-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	kW	55
- at inside-delta circuit at 40 °C rated value	kW	110
• at 400 V		
— at standard circuit at 40 °C rated value	kW	110
— at inside-delta circuit at 40 °C rated value	kW	200
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	50
operating frequency rated value	Hz	50 60

	-	
relative negative tolerance of the operating frequency	%	-10
relative positive tolerance of the operating frequency	%	10 200. (Constant doing)
operating voltage at standard circuit rated value	V	
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	40
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	89
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	210
height	mm	230
depth	mm	298
fastening method mounting position	-	screw fixing with vertical mounting surface +/-90° rotatable, with
mounting position		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 3
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts		1
type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point	_	
finely stranded with core end processing		70 240 mm²

 finely stranded without core end processing stranded 		
stranded type of connectable conductor cross-sections for main contacts for box terminal using the back		¹⁰ dientudong
clamping point		
finely stranded with core end processing		120 185 mm ²
 finely stranded without core end processing 		120 185 mm ²
stranded	-	120 240 mm ²
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		
 finely stranded with core end processing 		min. 2x 50 mm², max. 2x 185 mm²
 finely stranded without core end processing 		min. 2x 50 mm², max. 2x 185 mm²
stranded	-	max. 2x 70 mm ² , max. 2x 240 mm ²
type of connectable conductor cross-sections at AWG		
cables for main contacts for box terminal		250 500 kcmil
using the back clamping point		3/0 600 kcmil
 using the front clamping point using both clamping points 		min. 2x 2/0, max. 2x 500 kcmil
type of connectable conductor cross-sections for DIN	-	11111. 2X 2/0, 1112X. 2X 300 KG1111
cable lug for main contacts		
 finely stranded 		50 240 mm²
• stranded		70 240 mm²
type of connectable conductor cross-sections for	-	
auxiliary contacts		
• solid		2x (0.5 2.5 mm²)
 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 kcmil
for auxiliary contacts		2x (20 14)
 for auxiliary contacts for auxiliary contacts finely stranded with core end 		2x (20 14) 2x (20 16)
processing		
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)
		1K6 (only occasional condensation), 1C2 (no salt mist),
during storage according to IEC 60721		1S2 (sand must not get inside the devices), 1M4
during operation according to IEC 60721		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
during operation according to IEC 60721 ambient temperature		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
during operation according to IEC 60721 ambient temperature ouring operation	°C	3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 60
during operation according to IEC 60721 ambient temperature ouring operation ouring storage	°C	 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 60 -25 +80
during operation according to IEC 60721 ambient temperature ouring operation		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 60
• during operation according to IEC 60721 ambient temperature • during operation • during storage derating temperature protection class IP on the front according to IEC	°C	 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 60 -25 +80 40
• during operation according to IEC 60721 ambient temperature • during operation • during storage derating temperature protection class IP on the front according to IEC 60529	°C	 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 60 -25 +80 40 IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box
• during operation according to IEC 60721 ambient temperature • during operation • during storage derating temperature protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529	°C	 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 60 -25 +80 40 IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box
• during operation according to IEC 60721 ambient temperature • during operation • during storage derating temperature protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Certificates/ approvals	°C	 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 60 -25 +80 40 IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box terminal/cover
• during operation according to IEC 60721 ambient temperature • during operation • during storage derating temperature protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Certificates/ approvals	°C	 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 60 -25 +80 40 IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box terminal/cover
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Special Test Certificate Type Test Certificates/Test Report



Marine / Shipping		other		
PRS	ENVILCEMENT	<u>Confirmation</u>		
UL/CSA ratings yielded mechanical p motor	erformance [hp] for	3-phase AC		

• at 200/208 V		
 — at inside-delta circuit at 50 °C rated value 	hp	100
• at 220/230 V		
— at standard circuit at 50 °C rated value	hp	60
— at inside-delta circuit at 50 °C rated value	hp	125
• at 460/480 V		
— at standard circuit at 50 °C rated value	hp	125
 — at inside-delta circuit at 50 °C rated value 	hp	250
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=3RW4443-6BC34

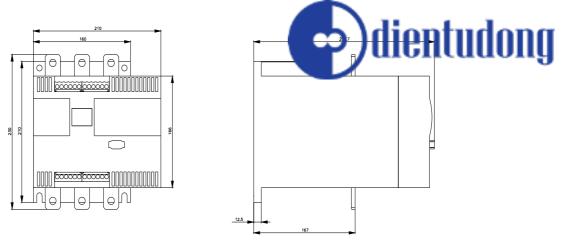
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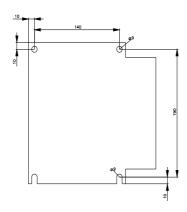
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4443-6BC34

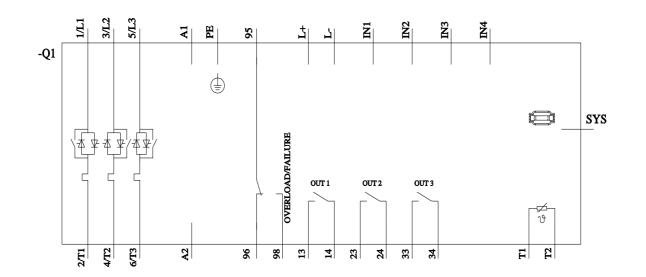
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RW4443-6BC34

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4443-6BC34&lang=en







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