3RW4434-6BC44

SIEMENS



Data sheet



SIRIUS soft starter Values at 400 V, 40 °C standard: 113 A, 55 kW Inside-delta: 196 A, 110 kW 200-460 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5534-6HA14<<

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	113
 at 50 °C rated value 	А	100
 at 60 °C rated value 	А	88
operational current for 3-phase motors at inside-delta circuit		
 at 40 °C rated value 	А	196
 at 50 °C rated value 	А	173
 at 60 °C rated value 	А	152
yielded mechanical performance for 3-phase motors	-	
• at 230 V	6147	20
— at standard circuit at 40 °C rated value	kW	30 55
— at inside-delta circuit at 40 °C rated value	kW	00
• at 400 V	1.3.47	55
— at standard circuit at 40 °C rated value	kW	55
— at inside-delta circuit at 40 °C rated value	. kW	110
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	30
operating frequency rated value	Hz	50 60

relative negative tolerance of the operating frequency	%	-10
relative positive tolerance of the operating frequency	%	⁻¹⁰ ¹⁰ ²⁰⁰ dientudong
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	22
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	64
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	230
at 60 Hz rated value	V	230
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	170
height	mm	200
depth footnotes mothed	mm	270
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 for auxiliany and control circuit		busbar connection
for auxiliary and control circuit number of NC contacts for auxiliary contacts		screw-type terminals 0
number of NO contacts for auxiliary contacts		3
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 		16 70 mm²

 clamping point finely stranded with core end processing 		16 70 mm²
 finely stranded with core end processing finely stranded without core end processing 		16 70 mm²
stranded without core end processing stranded		16 70 mm²
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		
 finely stranded with core end processing 		max. 1x 50 mm ² , 1x 70 mm ²
 finely stranded without core end processing 		max. 1x 50 mm ² , 1x 70 mm ²
• stranded		max. 2x 70 mm ²
type of connectable conductor cross-sections at AWG cables for main contacts for box terminal		6 2/0
using the back clamping point		6 2/0
 using the front clamping point using both clamping points 		6 2/0 max. 2x 1/0
type of connectable conductor cross-sections for DIN		111dX. 2X 1/0
cable lug for main contacts		
 finely stranded 		16 95 mm²
• stranded		25 120 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 mm ²)
type of connectable conductor cross-sections at AWG		
cables		
 for main contacts 		4 250 kcmil
 for auxiliary contacts 		2x (20 14)
 for auxiliary contacts finely stranded with core end processing 		2x (20 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), 1C2 (no salt mist), 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
ambient temperature		
during operation	°C	60
during storage	°C	-25 +80
derating temperature protection class IP on the front according to IEC	°C	40 IP00; IP20 with box terminal/cover
60529		IF00, IF20 with box terminal/cover
touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front with box terminal/cover
Certificates/ approvals		
General Product Approval		EMC
		-
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CSA CCC		0L — — — — — — — — — — — — — — — — — — —



Special Test Certificate Type Test Certificates/Test Report



Marine / Shipping		other	
PRS	DNV-GL	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	50
• at 220/230 V		
 — at standard circuit at 50 °C rated value 	hp	30
— at inside-delta circuit at 50 °C rated value	hp	60
• at 460/480 V		
 — at standard circuit at 50 °C rated value 	hp	75
- at inside-delta circuit at 50 °C rated value	hp	125
contact rating of auxiliary contacts according to UL		B300 / R300
Funther information		

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=3RW4434-6BC44

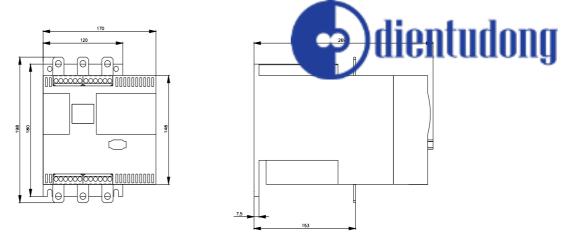
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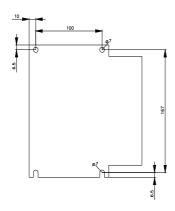
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4434-6BC44

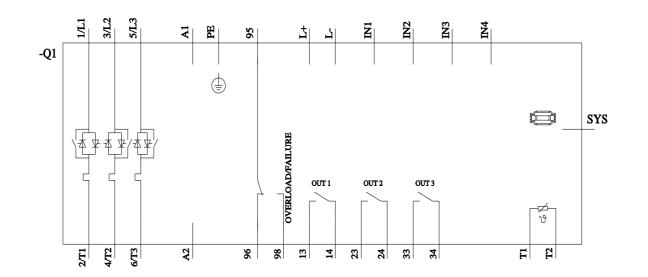
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RW4434-6BC44

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4434-6BC44&lang=en







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