SIEMENS

Data sheet 3RW4434-6BC44



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 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 	Α	113
 at 50 °C rated value 	Α	100
 at 60 °C rated value 	Α	88
operational current for 3-phase motors at inside-delta circuit		
 at 40 °C rated value 	Α	196
 at 50 °C rated value 	Α	173
 at 60 °C rated value 	Α	152
yielded mechanical performance for 3-phase motors		
● at 230 V		
 at standard circuit at 40 °C rated value 	W	30 000
— at inside-delta circuit at 40 °C rated value	W	55 000
● at 400 V		
 at standard circuit at 40 °C rated value 	W	55 000
— at inside-delta circuit at 40 °C rated value	W	110 000
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
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	Α	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	mm	270
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		
main contacts for box terminal using the front		

	16 70 mm²		
	10 70 111111		
	16 70 mm²		
	16 70 mm²		
	16 70 mm²		
	max. 1x 50 mr	n², 1x 70 mm²	
	max. 1x 50 mr	n², 1x 70 mm²	
_	max. 2x 70 mr	n²	
	6 2/0		
	6 2/0		
	max. 2x 1/0		
	16 95 mm²		
	25 120 mm²	!	
	2x (0.5 2.5 r	mm²)	
	2x (0.5 1.5 r	mm²)	
	4 250 kcmil		
	2x (20 14)		
	2x (20 16)		
m	5 000		
	2K2, 2C1, 2S1	, 2M2 (max. fall height	0.3 m)
°C	60		
°C	-25 +80		
°C	40		
	IP00; IP20 with	n box terminal/cover	
			ne front with box
	°C °C	16 70 mm² 16 70 mm² 16 70 mm² max. 1x 50 mr max. 1x 50 mr max. 2x 70 mr 6 2/0 6 2/0 max. 2x 1/0 16 95 mm² 25 120 mm² 2x (0.5 2.5 r 2x (0.5 1.5 r 4 250 kcmil 2x (20 14) 2x (20 16) m 5 000 2K2, 2C1, 2S1 1K6 (only occa 1S2 (sand mus 3K6 (no forma mist), 3S2 (san) °C 60 °C -25 +80 °C 40 IP00; IP20 with finger-safe, for	16 70 mm² max. 1x 50 mm², 1x 70 mm² max. 1x 50 mm², 1x 70 mm² max. 2x 70 mm² 6 2/0 6 2/0 max. 2x 1/0 16 95 mm² 25 120 mm² 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²) 4 250 kcmil 2x (20 14) 2x (20 16) m 5 000 2K2, 2C1, 2S1, 2M2 (max. fall height 1K6 (only occasional condensation), 1S2 (sand must not get inside the dev 3K6 (no formation of ice, no condensamist), 3S2 (sand must not get into the











Miscellaneous

Declaration of Test Certificates Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate







Marine / Shipping

other





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

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

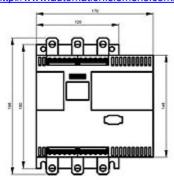
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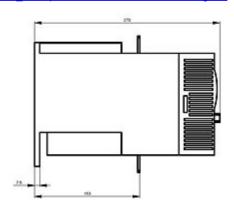
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4434-6BC44

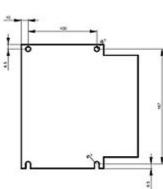
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

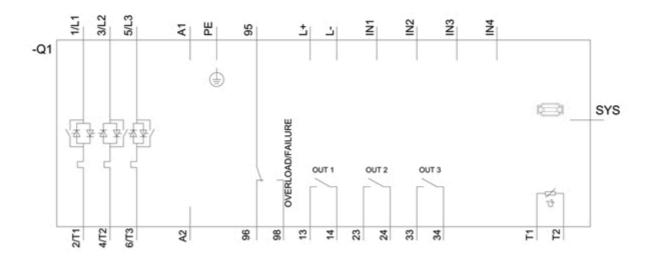
https://support.industry.siemens.com/cs/ww/en/ps/3RW4434-6BC44

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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