SIEMENS

Data sheet

SIRIUS soft starter Values at 575 V, 50 °C standard: 215 A, 200 hp Inside-delta: 372 A, 350 hp 400-690 V AC, 115 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5544-6HA16<<

3RW4444-6BC36

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	250
 at 50 °C rated value 	А	215
 at 60 °C rated value 	А	185
operational current for 3-phase motors at inside-delta circuit		
 at 40 °C rated value 	А	433
 at 50 °C rated value 	А	372
 at 60 °C rated value 	А	320
yielded mechanical performance for 3-phase motors		
• at 400 V		
 — at standard circuit at 40 °C rated value 	VV	132 000
- at inside-delta circuit at 40 °C rated value	W	250 000
• at 500 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 690 V at standard circuit at 40 °C rated value 	W	250 000
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	400 690
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	400 600
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	50
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	110
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	-	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 clamping point		

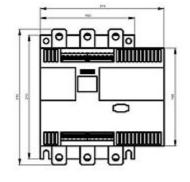
	70 240 mm²			
	70 240 mm²			
	95 300 mm²			
	120 185 mm²			
	120 185 mm²			
	120 240 mm ²			
	min. 2x 50 mm², max. 2x 185 mm²			
	min. 2x 50 mm², max. 2x 185 mm²			
	max. 2x 70 mm², max. 2x 240 mm²			
	250 500 kcmil			
	3/0 600 kcmil			
	min. 2x 2/0, max. 2x 500 kcmil			
	50 240 mm²			
	70 240 mm²			
	2x (0.5 2.5 mm²)			
	2x (0.5 1.5 mm²)			
	2/0 500 kcmil			
	2x (20 14)			
	2x (20 16)			
m	5 000			
	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)			
	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4			
	3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6			
°C	60			
°C	-25 +80			
	10			
°C	40			
°C				
°C	IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box			
C	IP00; IP20 with box terminal/cover			

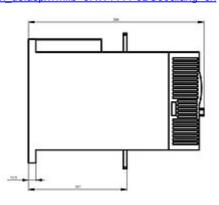
<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	ABS	B U REAU VERITAS	Lloyd's Register urs	PRS
Marine / Shipping	other				
ANT REPAIR AND	<u>Confirmation</u>				

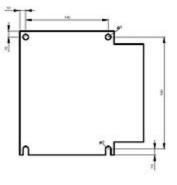
UL/CSA ratings yielded mechanical performance [hp] for 3-phase AC motor • at 460/480 V - at standard circuit at 50 °C rated value 150 hp - at inside-delta circuit at 50 °C rated value hp 300 • at 575/600 V - at standard circuit at 50 °C rated value hp 200 - at inside-delta circuit at 50 °C rated value hp 350 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=3RW4444-6BC36 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4444-6BC36 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

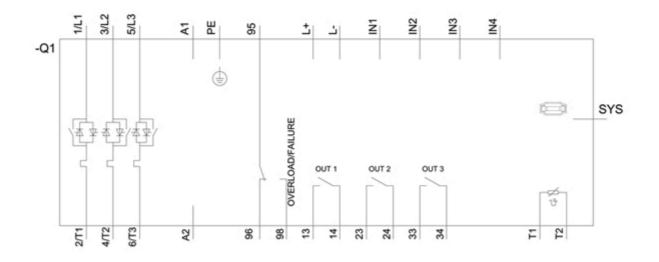
https://support.industry.siemens.com/cs/ww/en/ps/3RW4444-6BC36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4444-6BC36&lang=en









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