SIEMENS

Data sheet

SIRIUS soft starter Values at 690 V, 40 °C standard: 162 A, 160 kW Inside-delta: only up to 600 V 400-690 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5536-6HA16<<

3RW4436-6BC46

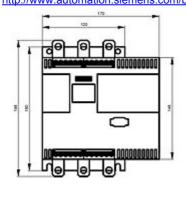
General technical data		
product brand name		SIRIUS
product feature	-	
 integrated bypass contact system 		Yes
thyristors		Yes
product function	-	
 intrinsic device protection 		Yes
 motor overload protection 		Yes
 evaluation of thermistor motor protection 		Yes
external reset		Yes
 adjustable current 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	162
 at 50 °C rated value 	А	145
 at 60 °C rated value 	А	125
operational current for 3-phase motors at inside-delta circuit		
 at 40 °C rated value 	А	281
 at 50 °C rated value 	А	251
 at 60 °C rated value 	А	217
yielded mechanical performance for 3-phase motors		
• at 400 V		
- at standard circuit at 40 °C rated value	W	90 000
- at inside-delta circuit at 40 °C rated value	W	160 000
• at 500 V		
— at standard circuit at 40 °C rated value	W	110 000
- at inside-delta circuit at 40 °C rated value	W	200 000
 at 690 V at standard circuit at 40 °C rated value 	W	160 000
operating frequency rated value	Hz	50 60

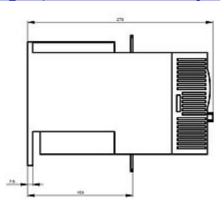
	-	
relative negative tolerance of the operating frequency	%	-10
relative positive tolerance of the operating frequency	%	10
operating voltage at standard circuit rated value	V	400 690
relative negative tolerance of the operating voltage at standard circuit	%	-15
relative positive tolerance of the operating 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	32
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	95
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 clamping point		

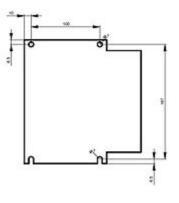
	16 70 mm² 16 70 mm²	
	16 70 mm²	
	10 70 mm²	
	16 70 mm²	
	16 70 mm²	
	16 70 mm²	
	max. 1x 50 mm², 1x 70 mm²	
	max. 1x 50 mm ² , 1x 70 mm ²	
	max. 2x 70 mm ²	
	6 2/0	
	6 2/0	
	max. 2x 1/0	
	16 95 mm²	
	25 120 mm²	
	2x (0.5 2.5 mm²)	
	2x (0.5 1.5 mm²)	
	4 250 kcmil	
	2x (20 14)	
	2x (20 16)	
m	5 000	
	2K2, 2C1, 2S1, 2M2 (max. fall height 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 sa mist), 3S2 (sand must not get into the devices), 3M6	alt
°C	60	
°C	-25 +80	
°C	40	
	IP00; IP20 with box terminal/cover	
	finger-safe, for vertical contact from the front with box terminal/cover	
	Э° С	16 70 mm² 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 70 mm² 16 95 mm² 25 120 mm² 2x (0.5 2.5 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 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) 1S2 (sand must not get into the devices), 3M6 °C 60 °C 40

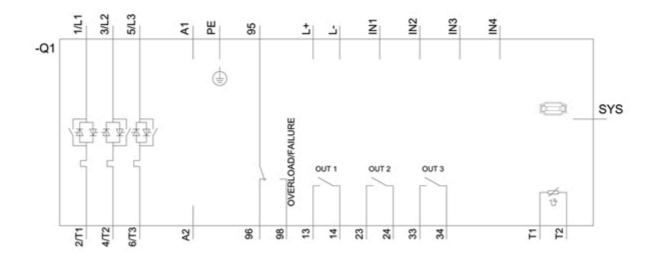
<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS	BUREAU VERITAS	Hoyds Register uis	PRS
Marine / Shipping	other				
DNV-GL	<u>Confirmation</u>				

UL/CSA ratings			
yielded mechanical performance [hp] for 3-phase AC motor			
• at 460/480 V			
 — at standard circuit at 50 °C rated value 	hp	100	
 — at inside-delta circuit at 50 °C rated value 	hp	200	
• at 575/600 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=3RW4436-6BC46			
Cax online generator			
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4436-6BC46			
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW4436-6BC46			
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)			
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4436-6BC46⟨=en			









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