## SIEMENS

## Data sheet

## 

SIRIUS soft starter Values at 690 V, 40 °C standard: 113 A, 110 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 >>3RW5534-6HA16<<

product brand name		SIRIUS
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product feature		
<ul> <li>integrated bypass contact system</li> </ul>		Yes
• thyristors		Yes
product function		
<ul> <li>intrinsic device protection</li> </ul>		Yes
<ul> <li>motor overload protection</li> </ul>		Yes
<ul> <li>evaluation of thermistor motor protection</li> </ul>		Yes
<ul> <li>external reset</li> </ul>		Yes
<ul> <li>adjustable current limitation</li> </ul>		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
ower 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	A	173
• at 60 °C rated value	A	152
yielded mechanical performance for 3-phase motors		
• 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
• at 500 V	vv	110 000
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	W	75 000
— at inside-delta circuit at 40 °C rated value	W	132 000
<ul> <li>at 690 V at standard circuit at 40 °C rated value</li> </ul>	W	110 000

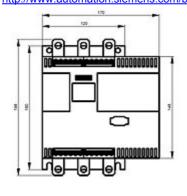
## 3RW4434-6BC46

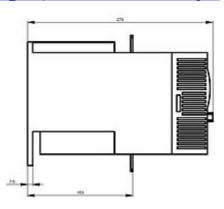
	-	
relative negative tolerance of the operating frequency	%	-10
relative positive tolerance of the operating frequency	%	10
operating voltage at standard circuit rated value	V	400 690
relative negative tolerance of the operating voltage at standard circuit	%	-15
relative positive tolerance of the operating 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	А	22
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during	W	64
operation typical		
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	-	
erentering bound		

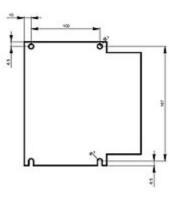
	16 70 mm² 16 70 mm²	
	16 70 mm²	
	10 70 mm²	
	16 70 mm²	
	16 70 mm²	
	16 70 mm²	
	max. 1x 50 mm², 1x 70 mm²	
	max. 1x 50 mm <sup>2</sup> , 1x 70 mm <sup>2</sup>	
	max. 2x 70 mm <sup>2</sup>	
	6 2/0	
	6 2/0	
	max. 2x 1/0	
	16 95 mm²	
	25 120 mm²	
	2x (0.5 2.5 mm²)	
	2x (0.5 1.5 mm²)	
	4 250 kcmil	
	2x (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	
	2° 2°	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

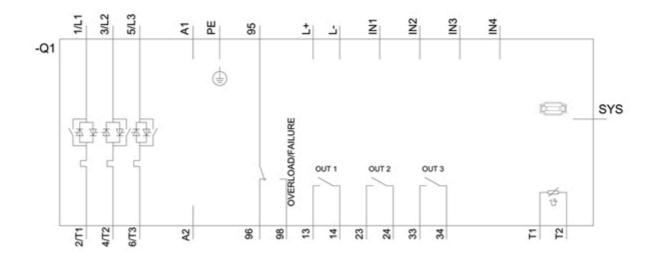
<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	ABS	BUREAU	Hoyds Register uis	PRS
Marine / Shipping	other				
DNV-GL	<u>Confirmation</u>				

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	75	
- at inside-delta circuit at 50 °C rated value	hp	125	
• at 575/600 V			
— at standard circuit at 50 °C rated value	hp	75	
- at inside-delta circuit at 50 °C rated value	hp	150	
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/1014949	917		
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=3RW4434-6BC46			
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4434-6BC46			
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW4434-6BC46			
Image database (product images, 2D dimension drawing http://www.automation.siemens.com/bilddb/cax_de.aspx?mlf			









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