## **SIEMENS**

Data sheet 3RW4466-6BC44



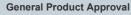
SIRIUS soft starter Values at 400 V, 40 °C standard: 1214 A, 710 kW Inside-delta: 2103 A, 1200 kW 200-460 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5558-6HA14<<

General technical data			
product brand name		SIRIUS	
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	
external reset		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 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	Α	1 214	
• at 50 °C rated value	А	1 076	
• at 60 °C rated value	А	970	
operational current for 3-phase motors at inside-delta circuit			
• at 40 °C rated value	А	2 103	
• at 50 °C rated value	А	1 864	
• at 60 °C rated value	А	1 680	
yielded mechanical performance for 3-phase motors			
• at 230 V			
— at standard circuit at 40 °C rated value	kW	400	
— at inside-delta circuit at 40 °C rated value	kW	710	
• at 400 V			
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	kW	710	
<ul> <li>at inside-delta circuit at 40 °C rated value</li> </ul>	kW	1 200	
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	400	
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	242
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	630
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	575
height	mm	780
height depth	mm mm	780 292
depth		292
depth fastening method		292 screw fixing with vertical mounting surface +/-90° rotatable, with vertical
depth fastening method mounting position		292 screw fixing with vertical mounting surface +/-90° rotatable, with vertical
depth fastening method mounting position required spacing with side-by-side mounting	mm	screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
depth fastening method mounting position  required spacing with side-by-side mounting • upwards	mm	screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
depth fastening method mounting position  required spacing with side-by-side mounting  • upwards • at the side	mm mm mm	292 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  100 5
depth fastening method mounting position  required spacing with side-by-side mounting  • upwards  • at the side  • downwards	mm mm mm	292 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  100 5 75
depth fastening method mounting position  required spacing with side-by-side mounting  • upwards  • at the side  • downwards  wire length maximum	mm mm mm	292 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  100 5 75 500
depth fastening method mounting position  required spacing with side-by-side mounting  • upwards  • at the side • downwards  wire length maximum number of poles for main current circuit	mm mm mm	292 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  100 5 75 500
depth fastening method mounting position  required spacing with side-by-side mounting	mm mm mm	292 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  100 5 75 500
depth fastening method mounting position  required spacing with side-by-side mounting	mm mm mm	screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  100 5 75 500 3
depth fastening method mounting position  required spacing with side-by-side mounting	mm mm mm	292 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  100 5 75 500 3 busbar connection
depth fastening method mounting position  required spacing with side-by-side mounting	mm mm mm	screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  100 5 75 500 3 busbar connection screw-type terminals
depth fastening method mounting position  required spacing with side-by-side mounting	mm mm mm	screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  100 5 75 500 3  busbar connection screw-type terminals 0
depth fastening method mounting position  required spacing with side-by-side mounting	mm mm mm	screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  100 5 75 500 3 busbar connection screw-type terminals 0 3
depth fastening method mounting position  required spacing with side-by-side mounting	mm mm mm	screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  100 5 75 500 3 busbar connection screw-type terminals 0 3
depth fastening method mounting position  required spacing with side-by-side mounting	mm mm mm	screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  100 5 75 500 3 busbar connection screw-type terminals 0 3 1
depth fastening method mounting position  required spacing with side-by-side mounting	mm mm mm	screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  100 5 75 500 3 busbar connection screw-type terminals 0 3 1
depth fastening method mounting position  required spacing with side-by-side mounting	mm mm mm	screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  100 5 75 500 3 busbar connection screw-type terminals 0 3 1
depth fastening method mounting position  required spacing with side-by-side mounting	mm mm mm	screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  100 5 75 500 3 busbar connection screw-type terminals 0 3 1  50 240 mm² 70 240 mm²
depth fastening method mounting position  required spacing with side-by-side mounting	mm mm mm	screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  100 5 75 500 3 busbar connection screw-type terminals 0 3 1  50 240 mm² 70 240 mm² 2x (0.5 2.5 mm²)

cables		
• for main contacts		2/0 500 kcmil
for auxiliary contacts		2x (20 14)
<ul> <li>for auxiliary contacts finely stranded with core end processing</li> </ul>		2x (20 16)
Ambient conditions		
installation altitude at height above sea level	m	5 000
environmental category		
<ul> <li>during transport according to IEC 60721</li> </ul>		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
<ul> <li>during storage according to IEC 60721</li> </ul>		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	°C	40
protection class IP on the front according to IEC 60529		IP00
UL/CSA ratings		
yielded mechanical performance [hp] for 3-phase AC motor		
• at 200/208 V		
<ul> <li>at inside-delta circuit at 50 °C rated value</li> </ul>	hp	700
• at 220/230 V		
<ul> <li>at standard circuit at 50 °C rated value</li> </ul>	hp	450
<ul> <li>at inside-delta circuit at 50 °C rated value</li> </ul>	hp	850
• at 460/480 V		
<ul> <li>at standard circuit at 50 °C rated value</li> </ul>	hp	950
<ul> <li>at inside-delta circuit at 50 °C rated value</li> </ul>	hp	1 700
contact rating of auxiliary contacts according to UL		B300 / R300
Approvals Certificates		

Approvals Certificates











Confirmation



General Product Approval Test Certificates Marine / Shipping





<u>KC</u>

Special Test Certificate





Marine / Shipping other Environment







Confirmation

Environmental Confirmations

## Further information

Simulation Tool for Soft Starters (STS)

https://support.industry.siemens.com/cs/ww/en/view/101494917

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

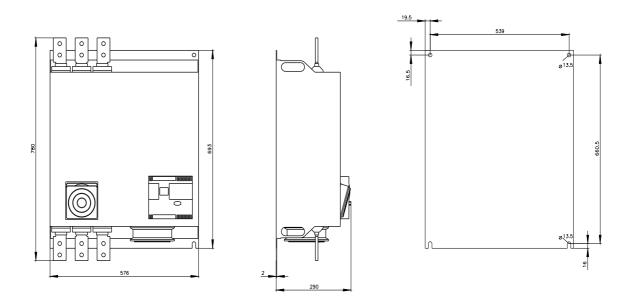
Industry Mall (Online ordering system)

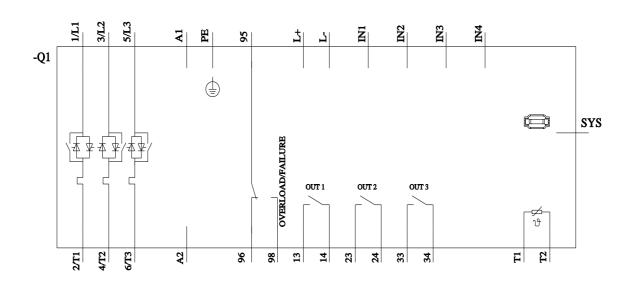
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4466-6BC44

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4466-6BC44

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





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