## **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	
<ul><li>thyristors</li></ul>		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 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			
<ul> <li>at 40 °C rated value</li> </ul>	Α	1 214	
<ul> <li>at 50 °C rated value</li> </ul>	Α	1 076	
<ul> <li>at 60 °C rated value</li> </ul>	Α	970	
operational current for 3-phase motors at inside-delta circuit			
<ul> <li>at 40 °C rated value</li> </ul>	Α	2 103	
<ul> <li>at 50 °C rated value</li> </ul>	Α	1 864	
<ul> <li>at 60 °C rated value</li> </ul>	Α	1 680	
yielded mechanical performance for 3-phase motors • at 230 ∨			
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	kW	400	
<ul> <li>at inside-delta circuit at 40 °C rated value</li> </ul>	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	%	-15
standard circuit relative positive tolerance of the operating voltage at	%	10
standard circuit		
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	А	242
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during	W	630
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	%	-15
voltage at AC at 50 Hz		
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	%	10
voltage at AC at 60 Hz		
display version for fault signal		Display
display version for fault signal Mechanical data		Display
display version for fault signal	mm	575
display version for fault signal Mechanical data	mm mm	575 780
display version for fault signal  Mechanical data  width height depth		575 780 292
display version for fault signal  Mechanical data  width height depth fastening method	mm	575 780 292 screw fixing
display version for fault signal  Mechanical data  width height depth	mm	575 780 292
display version for fault signal  Mechanical data  width height depth fastening method	mm	575 780 292 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and
display version for fault signal  Mechanical data  width height depth fastening method mounting position	mm	575 780 292 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and
display version for fault signal  Mechanical data  width height depth fastening method mounting position  required spacing with side-by-side mounting	mm mm	575 780 292 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
display version for fault signal  Mechanical data  width height depth fastening method mounting position  required spacing with side-by-side mounting • upwards	mm mm	575 780 292 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
display version for fault signal  Mechanical data  width height depth fastening method mounting position  required spacing with side-by-side mounting  • upwards • at the side	mm mm	575 780 292 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  100 5
display version for fault signal  Mechanical data  width height depth fastening method mounting position  required spacing with side-by-side mounting  • upwards • at the side • downwards	mm mm	575 780 292 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  100 5 75
display version for fault signal  Mechanical data  width height depth fastening method mounting position  required spacing with side-by-side mounting  • upwards • at the side • downwards wire length maximum	mm mm	575 780 292 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  100 5 75 500
display version for fault signal  Mechanical data  width height 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	575 780 292 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  100 5 75 500
display version for fault signal  Mechanical data  width height 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  Connections/ Terminals	mm mm	575 780 292 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  100 5 75 500
display version for fault signal  Mechanical data  width height 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  Connections/ Terminals type of electrical connection	mm mm	575 780 292 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
display version for fault signal  Mechanical data  width height 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  Connections/ Terminals  type of electrical connection • for main current circuit	mm mm	575 780 292 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
display version for fault signal  Mechanical data  width height 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  Connections/ Terminals  type of electrical connection • for main current circuit • for auxiliary and control circuit	mm mm	575 780 292 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 screw-type terminals
display version for fault signal  Mechanical data  width height 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  Connections/ Terminals  type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts	mm mm	575 780 292 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 screw-type terminals 0
display version for fault signal  Mechanical data  width height depth fastening method mounting position  required spacing with side-by-side mounting	mm mm	575 780 292 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 screw-type terminals 0 3
display version for fault signal  Mechanical data  width height depth fastening method mounting position  required spacing with side-by-side mounting	mm mm	575 780 292 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 screw-type terminals 0 3
display version for fault signal  Mechanical data  width height depth fastening method mounting position  required spacing with side-by-side mounting	mm mm	575 780 292 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 screw-type terminals 0 3
display version for fault signal  Mechanical data  width height depth fastening method mounting position  required spacing with side-by-side mounting	mm mm	575 780 292 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 screw-type terminals 0 3 1
display version for fault signal  Mechanical data  width height depth fastening method mounting position  required spacing with side-by-side mounting	mm mm	575 780 292 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 screw-type terminals 0 3 1
Mechanical data  width height depth fastening method mounting position  required spacing with side-by-side mounting	mm mm	575 780 292 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 screw-type terminals 0 3 1
display version for fault signal  Mechanical data  width height depth fastening method mounting position  required spacing with side-by-side mounting	mm mm	575 780 292 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 screw-type terminals 0 3 1  50 240 mm² 70 240 mm² 2x (0.5 2.5 mm²)
display version for fault signal  Mechanical data  width height depth fastening method mounting position  required spacing with side-by-side mounting	mm mm	575 780 292 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 screw-type terminals 0 3 1  50 240 mm² 70 240 mm²

cables		
<ul> <li>for main contacts</li> </ul>		2/0 500 kcmil
<ul> <li>for auxiliary contacts</li> </ul>		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
<ul> <li>during operation according to IEC 60721</li> </ul>		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
ambient temperature		
<ul> <li>during operation</li> </ul>	°C	60

°C

°C

60529
Certificates/ approvals

during storage

derating temperature

**General Product Approval** 

EMC





protection class IP on the front according to IEC

Confirmation



-25 ... +80

40

IP00





**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping





Special Test Certificate







Marine / Shipping

other





Confirmation

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
Further information		

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)

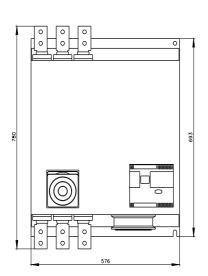
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4466-6BC44

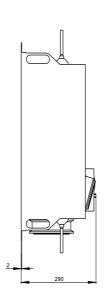
Cax online generator

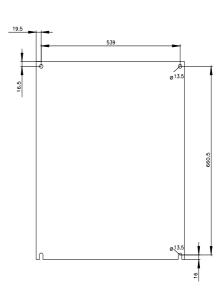
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4466-6BC44

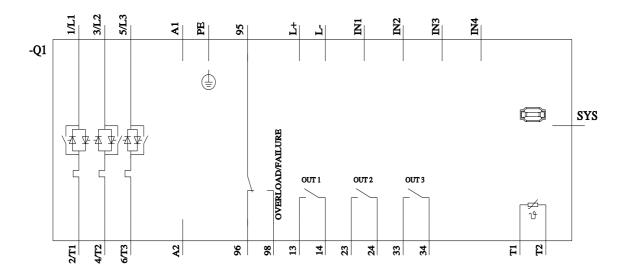
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) <a href="https://support.industry.siemens.com/cs/ww/en/ps/3RW4466-6BC44">https://support.industry.siemens.com/cs/ww/en/ps/3RW4466-6BC44</a>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax">http://www.automation.siemens.com/bilddb/cax</a> de.aspx?mlfb=3RW4466-6BC44&lang=en









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