## **SIEMENS**

**Data sheet** 3RW4458-6BC44



SIRIUS soft starter Values at 400 V, 40 °C standard: 970 A, 560 kW Inside-delta: 1680 A, 1000 kW 200-460 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5556-6HA14<<

	SIRIUS
	Yes
	Yes
	Yes
V	690
	3, acc. to IEC 60947-4-2
	Q
	G
	0.5
	Soft starter
•	0=0
	970
	850
А	760
Α	1 680
Α	1 472
Α	1 316
kW	315
kW	560
kW	560
kW	1 000
hp	300
Hz	50 60
·	50 60 -10
	A A A A A kW kW

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	А	194
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	270
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		
<ul> <li>at 50 Hz rated value</li> </ul>	V	230
<ul> <li>at 60 Hz rated value</li> </ul>	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		
voltage at AC at 60 Hz display version for fault signal		Display
•		Display
display version for fault signal	mm	Display 510
display version for fault signal Mechanical data	mm mm	
display version for fault signal  Mechanical data  width		510
display version for fault signal  Mechanical data  width height	mm	510 640
display version for fault signal  Mechanical data  width height depth	mm	510 640 290
display version for fault signal  Mechanical data  width height depth fastening method	mm	510 640 290 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	510 640 290 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	510 640 290 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	510 640 290 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	510 640 290 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	510 640 290 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	510 640 290 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	510 640 290 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	510 640 290 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	510 640 290 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	510 640 290 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 • for auxiliary and control circuit	mm mm	510 640 290 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	510 640 290 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	510 640 290 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	510 640 290 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	510 640 290 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  • 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 number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for DIN cable lug for main contacts • finely stranded	mm mm	510 640 290 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	510 640 290 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	510 640 290 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

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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
during storage	°C	-25 +80
derating temperature	°C	40
protection class IP on the front according to IEC 60529		IP00

Certificates/ approvals

**General Product Approval** 

**EMC** 



Confirmation









**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	550		
• at 220/230 V				
<ul> <li>at standard circuit at 50 °C rated value</li> </ul>	hp	350		
<ul> <li>at inside-delta circuit at 50 °C rated value</li> </ul>	hp	650		
• at 460/480 V				
<ul> <li>at standard circuit at 50 °C rated value</li> </ul>	hp	750		
<ul> <li>at inside-delta circuit at 50 °C rated value</li> </ul>	hp	1 300		
contact rating of auxiliary contacts according to UL		B300 / R300		
Further information				

Further informatior

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

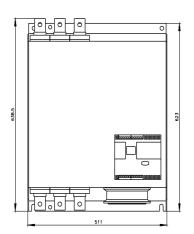
Industry Mall (Online ordering system)

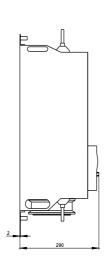
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4458-6BC44

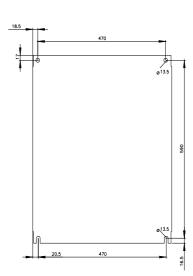
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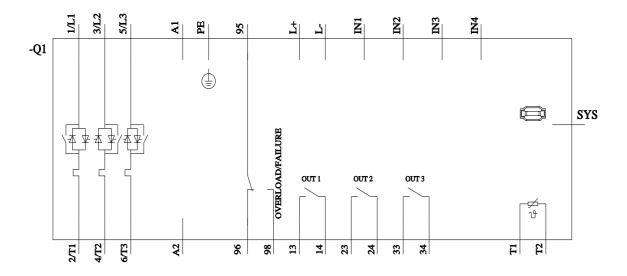
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4458-6BC44 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4458-6BC44

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4458-6BC44&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4458-6BC44&lang=en</a>









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