## **SIEMENS**

Data sheet 3RW4465-2BC46



SIRIUS soft starter Values at 690 V, 40 °C standard: 1076 A, 1100 kW Inside-delta: only up to 600 V 400-690 V AC, 230 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5558-2HA16<<

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 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			
<ul> <li>at 40 °C rated value</li> </ul>	Α	1 076	
<ul> <li>at 50 °C rated value</li> </ul>	Α	970	
at 60 °C rated value	Α	880	
operational current for 3-phase motors at inside-delta circuit			
<ul> <li>at 40 °C rated value</li> </ul>	Α	1 864	
<ul> <li>at 50 °C rated value</li> </ul>	Α	1 680	
<ul> <li>at 60 °C rated value</li> </ul>	Α	1 524	
yielded mechanical performance for 3-phase motors			
● at 400 V			
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	W	630 000	
<ul> <li>— at inside-delta circuit at 40 °C rated value</li> </ul>	W	1 100 000	
● at 500 V			
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	W	800 000	
<ul> <li>— at inside-delta circuit at 40 °C rated value</li> </ul>	W	1 350 000	
<ul> <li>at 690 V at standard circuit at 40 °C rated value</li> </ul>	W	1 100 000	
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	А	215
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during	W	510
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		
<ul> <li>at 50 Hz rated value</li> </ul>	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
depth	mm	292
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		spring-loaded 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 DIN cable lug for main contacts		
finely stranded		50 240 mm²
• intery enumbed		VV 2 TV IIIII

• stranded		70 240 mm²
type of connectable conductor cross-sections for auxiliary contacts		
• solid		2x (0.25 1.5 mm²)
finely stranded with core end processing		2x (0.25 1.5 mm²)
type of connectable conductor cross-sections at AWG cables		
<ul> <li>for main contacts</li> </ul>		2/0 500 kcmil
<ul> <li>for auxiliary contacts</li> </ul>		2x (24 16)
Ambient conditions		
installation altitude at height above sea level	m	5 000
environmental category		
<ul> <li>during transport acc. to IEC 60721</li> </ul>		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
during storage acc. to IEC 60721		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
<ul> <li>during operation acc. 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 acc. to IEC 60529		IP00
Certificates/ approvals		

**General Product Approval** 

**EMC** 

Declaration of Conformity













**Test Certificates** 

Marine / Shipping

Special Test Certific-<u>ate</u>











other

Confirmation

UL/CSA ratings yielded mechanical performance [hp] for 3-phase AC motor		
• at 460/480 V		
<ul> <li>— at standard circuit at 50 °C rated value</li> </ul>	hp	850
<ul> <li>— at inside-delta circuit at 50 °C rated value</li> </ul>	hp	1 500
• at 575/600 V		
<ul> <li>— at standard circuit at 50 °C rated value</li> </ul>	hp	1 100
<ul> <li>— at inside-delta circuit at 50 °C rated value</li> </ul>	hp	1 900
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=3RW4465-2BC46

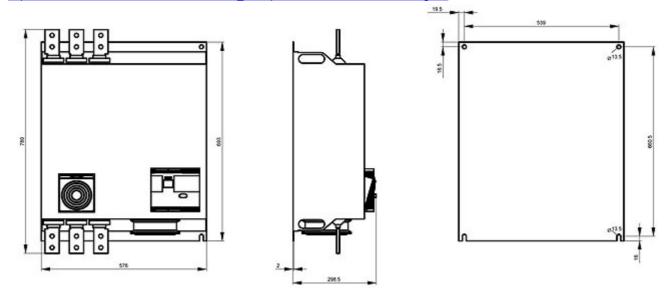
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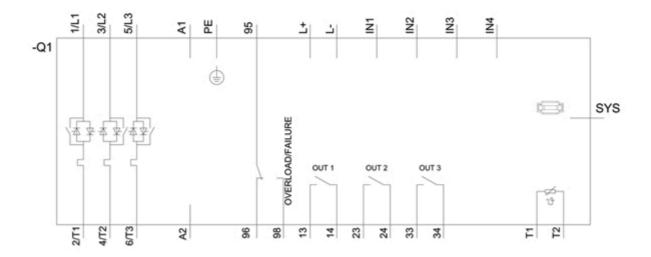
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4465-2BC46

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW4465-2BC46

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=3RW4465-2BC46&lang=en





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