## **SIEMENS**

Data sheet 3RW4466-6BC45



SIRIUS soft starter Values at 500 V, 40 °C standard: 1214 A, 900 kW Inside-delta: 2103 A, 1500 kW 400-600 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5558-6HA16<<

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
<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	1 214
<ul> <li>at 50 °C rated value</li> </ul>	Α	1 076
at 60 °C rated value	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
at 60 °C rated value	Α	1 680
yielded mechanical performance for 3-phase motors		
● at 400 V		
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	W	710 000
<ul> <li>— at inside-delta circuit at 40 °C rated value</li> </ul>	W	1 200 000
● at 500 V		
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	W	900 000
— at inside-delta circuit at 40 °C rated value	W	1 500 000
operating frequency rated value	Hz	50 60
relative negative tolerance of the operating frequency	%	-10

operating voltage at standard circuit rated value relative negative tolorance of the operating voltage at standard circuit relative positive tolorance of the operating voltage at standard circuit relative negative tolorance of the operating voltage at standard circuit relative negative tolorance of the operating voltage at inside-defia circuit relative positive tolorance of the operating voltage at inside-defia circuit relative positive tolorance of the operating voltage at inside-defia circuit relative positive tolorance of the operating voltage at inside-defia circuit relative positive tolorance of the operating voltage at inside-defia circuit relative positive tolorance of the operating voltage continuous operating current (% of le] at 40 °C  power loss [W] at operational current at 40 °C during operation typical  Control circuit Control  ypp of voltage of the control supply voltage control supply voltage frequency 1 rated value relative negative tolorance of the control supply voltage frequency control supply voltage frequency 2 rated value relative negative tolorance of the control supply voltage frequency control supply voltage 1 at AC  • at 60 Hz reled value • at 60 Hz		-	
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voltage frequency relative positive tolerance of the control supply voltage frequency control supply voltage 1 at AC  • at 50 Hz rated value • at 60 Hz rated value • at 60 Hz rated value  • at 50 Hz rated value  v 230  relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz re	control supply voltage frequency 2 rated value	Hz	60
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at 50 Hz rated value  at 60 Hz rated value  at 60 Hz rated value  v 230  v 230  relative pestive tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz  relative pestitive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  display version for fault signal  Mechanical data  width  height  mm 780  depth mm 780  depth mm 292  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 auxiliary and control circuit  number of NC contacts for auxiliary contacts  number of CO contacts for auxiliary contacts  number of ICO contacts for auxiliary contacts  • finely stranded  v 230  -15  10  200  10  200  10  200  200  10  200		%	10
e at 60 Hz rated value  relative negative tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 60 Hz  relative positive tolerance of the control supply voltage at AC at 50 Hz  10  10  Insplay  Mechanical data  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  at the side  downwards  mm  5  wire length maximum  m 500  number of poles for main current circuit  screw-lype terminals  type of electrical connection  of or main current circuit  screw-lype terminals  number of NO contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  number of CO contacts for auxiliary contacts  number of CO contacts for auxiliary contacts  number of poles for main contacts  of nonectable conductor cross-sections for DIN  calle lug for main contacts  of nonectable conductor cross-sections for DIN  calle lug for main contacts  of nonectable conductor cross-sections for DIN  calle lug for main contacts  of nonectable conductor cr	control supply voltage 1 at AC		
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relative positive tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz display version for fault signal    Mcchanical data	at 60 Hz rated value	V	230
voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz display version for fault signal  Mechanical data  width height depth mm 780 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  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  - 10  - 15  - 15  - 15  - 15  - 15  - 15  - 15  - 10		%	-15
relative positive tolerance of the control supply voltage at AC at 60 Hz  display version for fault signal  Mechanical data  width		%	10
voltage at AC at 60 Hz display version for fault signal  Mochanical data  width  mm 575 height mm 780 depth mm 292 fastening method mounting position  required spacing with side-by-side mounting  • upwards • at the side • downwards • downwards wire length maximum m 500 number of poles for main current circuit  Connections/ Terminals  type of electrical connection • for auxiliary and control circuit number of NC contacts for auxiliary contacts number of CO 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 575 mm 75 mm 75 mm 500 number of NC contacts for auxiliary contacts 1 type of connectable conductor cross-sections for DIN cable lug for main contacts • finely stranded		%	-15
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     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 DIN cable lug for main contacts     50 240 mm²		%	10
width	display version for fault signal		Display
height depth mm 780  depth screw fixing method screw fixing 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 • at the side mm 5 • downwards mm 5 wire length maximum m 500 number of poles for main current circuit 3  Connections/ Terminals  type of electrical connection • for main current circuit screw-type terminals  number of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts 1  type of connectable conductor cross-sections for DIN cable lug for main contacts • finely stranded  mm 780  mm 292  with vertical mounting surface +/-90° rotatable, with vertical mounting	Mechanical data		
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 screw-type terminals  number of NC contacts for auxiliary contacts number of CO 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 50 240 mm²	width	mm	575
fastening method screw fixing  mounting position  required spacing with side-by-side mounting  • upwards • at the side • downwards  min m food  number of poles 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  screw fixing with vertical mounting surface +/-90° rotatable, with	height	mm	780
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 at the side downwards mm 5 wire length maximum mm 500  number of poles for main current circuit  type of electrical connection for auxiliary and control circuit screw-type terminals  number of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts fupe of connectable conductor cross-sections for DIN cable lug for main contacts finely stranded  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable to the front and back  mm 100  50  Source So	depth	mm	292
required spacing with side-by-side mounting  • upwards  • at the side  • downwards  mm 5  wire length maximum  number of poles for main current circuit  type of electrical connection  • for main current 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  vertical mounting surface +/- 22.5° tiltable to the front and back  mm 100  mm 5  mm 5  so  busbar connection  busbar connection  screw-type terminals  0  number of NC contacts for auxiliary contacts  1  type of connectable conductor cross-sections for DIN cable lug for main contacts  • finely stranded	fastening method	_	screw fixing
<ul> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>mm</li> <li>foliant</li> <li>mm</li> <li>mm</li></ul>	mounting position		vertical mounting surface +/- 22.5° tiltable to the front and
<ul> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>mm</li> <li>foliant</li> <li>mm</li> <li>mm</li></ul>	required spacing with side-by-side mounting		
<ul> <li>at the side         <ul> <li>downwards</li> <li>mm</li> <li>75</li> </ul> </li> <li>wire length maximum</li></ul>		mm	100
wire length maximum number of poles for main current circuit  Connections/ Terminals  type of electrical connection	• at the side	mm	5
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 NO 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  50 240 mm²	<ul><li>downwards</li></ul>	mm	75
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  1  type of connectable conductor cross-sections for DIN cable lug for main contacts  • finely stranded  busbar connection  screw-type terminals  0  1  type terminals  1  type of connectable conductor contacts  1  50 240 mm²	wire length maximum	m	500
type of electrical connection  • for main current circuit  • for auxiliary and control circuit  number of NC contacts for auxiliary contacts  number of NO 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  busbar connection  screw-type terminals  0  1  1  1  1  1  1  1  1  1  1  1  1	number of poles for main current circuit		3
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>number of NC contacts for auxiliary contacts</li> <li>number of NO contacts for auxiliary contacts</li> <li>number of CO contacts for auxiliary contacts</li> <li>type of connectable conductor cross-sections for DIN cable lug for main contacts</li> <li>finely stranded</li> <li>busbar connection</li> <li>3</li> <li>1</li> <li>50 240 mm²</li> </ul>	Connections/ Terminals		
<ul> <li>for auxiliary and control circuit</li> <li>number of NC contacts for auxiliary contacts</li> <li>number of NO contacts for auxiliary contacts</li> <li>number of CO contacts for auxiliary contacts</li> <li>type of connectable conductor cross-sections for DIN cable lug for main contacts</li> <li>finely stranded</li> <li>50 240 mm²</li> </ul>	type of electrical connection		
number of NC contacts for auxiliary contacts  number of NO 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  50 240 mm²	for main current circuit		busbar connection
number of NC contacts for auxiliary contacts  number of NO 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  50 240 mm²	<ul> <li>for auxiliary and control circuit</li> </ul>		screw-type terminals
number of NO 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  50 240 mm²	number of NC contacts for auxiliary contacts		0
type of connectable conductor cross-sections for DIN cable lug for main contacts  • finely stranded  50 240 mm²			3
cable lug for main contacts         ● finely stranded         50 240 mm²	number of CO contacts for auxiliary contacts		1
stranded     70 240 mm <sup>2</sup>	<ul> <li>finely stranded</li> </ul>		50 240 mm²
7 V 2-TO IIIII	• stranded		70 240 mm²

type of connectable conductor cross-sections for auxiliary contacts		
• solid		2x (0.5 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 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 (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 acc. to IEC 60721</li> </ul>		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
<ul> <li>during storage acc. 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 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 Certificate











other

Confirmation

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	950
<ul> <li>at inside-delta circuit at 50 °C rated value</li> </ul>	hp	1 700
• at 575/600 V		
<ul> <li>at standard circuit at 50 °C rated value</li> </ul>	hp	1 200
<ul> <li>at inside-delta circuit at 50 °C rated value</li> </ul>	hp	2 100
contact rating of auxiliary contacts according to UL		B300 / R300

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=3RW4466-6BC45

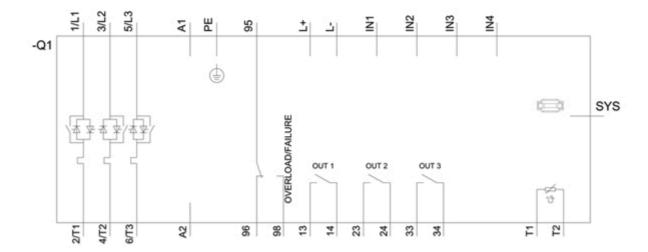
Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW4466-6BC45}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW4466-6BC45

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4466-6BC45&lang=en



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