SIEMENS

Data sheet 3RW4466-2BC35



SIRIUS soft starter Values at 575 V, 50 °C standard: 1076 A, 1200 hp Inside-delta: 1864 A, 2100 hp 400-600 V AC, 115 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		
 integrated bypass contact system 		Yes
• thyristors		Yes
product function		
 intrinsic device protection 		Yes
 motor overload protection 		Yes
 evaluation of thermistor motor protection 		Yes
 external reset 		Yes
 adjustable current limitation 		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		
 at 40 °C rated value 	Α	1 214
 at 50 °C rated value 	Α	1 076
at 60 °C rated value	Α	970
operational current for 3-phase motors at inside-delta circuit		
 at 40 °C rated value 	Α	2 103
 at 50 °C rated value 	Α	1 864
at 60 °C rated value	Α	1 680
yielded mechanical performance for 3-phase motors		
● at 400 V		
 — at standard circuit at 40 °C rated value 	W	710 000
 — at inside-delta circuit at 40 °C rated value 	W	1 200 000
● at 500 V		
 at standard circuit at 40 °C rated value 	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

relative positive tolerance of the operating voltage at standard circular ted value			10
relative negative tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at standard circuit operating voltage at inside-defita circuit rated value relative positive tolerance of the operating voltage at inside-defita circuit rated value relative positive tolerance of the operating voltage at inside-defita circuit relative positive tolerance of the operating voltage at inside-defita circuit minimum call voltage at inside-defita circuit minimum call voltage (%) adiustable motor current for motor overload protection minimum rated value continuous operating current (% of le) at 40 °C out of voltage of voltage of the control supply voltage operation typical control supply voltage frequency 1 rated value control supply voltage frequency 2 rated value relative negative tolerance of the control supply relative positive tolerance of the control supply voltage frequency 2 rated value voltage frequency at at AC voltage frequency 2 rated value voltage frequency 2 rated value voltage frequency 2 rated value voltage frequency 3 rated value voltage frequency 4 rated value voltage frequency 5 rated value voltage frequency 6 rated value voltage frequency 7 rated value voltage frequency 7 rated value voltage frequency 7 rated value voltage frequency 8 rated value voltage frequency 8 rated value voltage frequency 9 rated value voltage frequency 1 rated value voltage frequency 9 rated value voltage frequency 1 r	relative positive tolerance of the operating frequency	- %	10
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relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit minimum load [%] silves a protection minimum rated value continuous operating current [% of le] at 40 °C power loss [W] at operational current at 40 °C during operation typical Control current [% of le] at 40 °C power loss [W] at operational current at 40 °C during operation typical Control supply voltage frequency 1 rated value control supply voltage frequency 2 rated value control supply voltage frequency 2 rated value control supply voltage frequency 2 rated value relative negative tolerance of the control supply voltage frequency relative negative tolerance of the control supply voltage frequency control supply voltage at AC at 50 Hz rated value at 50 Hz rated value at 50 Hz rated value voltage frequency relative negative tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz r		%	10
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control circult/ Control type of voltage of the control supply voltage control supply voltage frequency 1 rated value	continuous operating current [% of le] at 40 °C	%	115
type of voltage of the control supply voltage control supply voltage frequency 1 rated value relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply voltage 1 at AC • at 50 Hz rated value		W	630
control supply voltage frequency 1 rated value	Control circuit/ Control		
control supply voltage frequency 2 rated value relative negative tolerance of the control supply 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 60 Hz rated value relative negative tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz 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 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 width mm 575 height mm 780 mm 780 required spacing with side-by-side mounting upwards at the side downwards mm 5 downwards mm 5 downwards mm 50 at the side downwards mm 50 number of poles for main current circuit or or auxiliary and control circuit soft auxiliary and control circuit soft auxiliary and control circuit substance of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of contacts for auxiliary contacts number of or contacts for auxiliary contacts	type of voltage of the control supply voltage		AC
relative negative tolerance of the control supply 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 rate	control supply voltage frequency 1 rated value	Hz	50
voltage frequency rolative 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 60 Hz rated value • at 60 Hz rated value • at 60 Hz rated value • at 60 Hz rated value • at 60 Hz rated value • at 60 Hz rated value • at 60 Hz rated value • at 60 Hz rated value • at 60 Hz rated value • at 60 Hz rated value • 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 display version for fault signal **Wechanical data** width **mm** **mm** **positive tolerance of the control supply voltage at AC at 60 Hz display version for fault signal **wechanical data** width **mm** **positive tolerance of the control supply voltage at AC at 60 Hz display version for fault signal **wechanical data** width **mm** **positive tolerance of the control supply voltage at AC at 60 Hz display version for fault signal **wechanical data** width **mm** **positive tolerance of the control supply voltage at AC at 60 Hz Display **wechanical data** width **mm** **positive tolerance of the control supply voltage at AC at 60 Hz **positive tolerance of the control supply voltage at AC at 60 Hz **positive tolerance of the control supply voltage at AC at 60 Hz **positive tolerance of the control supply **pos	control supply voltage frequency 2 rated value	Hz	60
voltage frequency control supply voltage 1 at AC • at 50 Hz rated value • at 60 Hz rated value voltage at AC at 50 Hz 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 negative tolerance of the control supply 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 relative positive tolerance of the control supply voltage at AC at 60 Hz display version for fault signal Mechanical 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 wire length maximum m 500 number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxillary and control circuit number of NC contacts for auxillary contacts number of CO contacts for auxillary contacts number of CO contacts for auxillary contacts number of CO contacts for auxillary contacts number of main contacts type of connectable conductor cross-sections for DIN cable lug for main contacts	voltage frequency	%	-10
at 50 Hz rated value at 60 Hz rated value v 115 at 60 Hz rated value v 115 voltage at AC at 50 Hz 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 positive tolerance of the control supply voltage at AC at 60 Hz display version for fault signal Mechanical data width mm 575 height 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 main current circuit 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 PO contacts for auxiliary contacts number of main courcer cors-s-sections for DIN cable lug for main contacts		%	10
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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 negative 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 display version for fault signal Mechanical data width height mm 575 depth fastening method mounting position required spacing with side-by-side mounting upwards at the side downwards mm 55 downwards mm 55 wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection of or auxiliary and control circuit number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of connectable conductor cross-sections for DIN cable lug for main contacts type of connectable conductor cross-sections for DIN cable lug for main contacts	• at 50 Hz rated value	V	115
relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative 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 display version for fault signal Mechanical data width height mm 575 height 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 main current circuit number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of conectable conductor cross-sections for DIN cable lug for main contacts type of connectable conductor cross-sections for DIN cable lug for main contacts type of connectable conductor cross-sections for DIN cable lug for main contacts type of connectable conductor cross-sections for DIN cable lug for main contacts type of connectable conductor cross-sections for DIN cable lug for main contacts	at 60 Hz rated value	V	115
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 display version for fault signal Mechanical data width mm 575 height mm 780 depth mm 292 fastening method screw fixing mounting position 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 connections/ Terminals type of electrical connection for auxiliary and control circuit number of NO 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 cortacts type of connectable conductor cross-sections for DIN cable lug for main cortacts		%	-15
relative positive tolerance of the control supply voltage at AC at 60 Hz display version for fault signal Mechanical data width		%	10
display version for fault signal Mechanical data width mm 575 height mm 780 depth mm 292 fastening method screw fixing mounting position required spacing with side-by-side mounting		%	-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 • upwards mm 5 • downwards mm 75 wire length maximum m 500 number of poles for main current circuit 3 Connections/ Terminals type of electrical connection busbar connection • for auxiliary and control circuit spring-loaded terminals number of NC contacts for auxiliary contacts 0 number of CO contacts for auxiliary contacts 3 number of CO contacts for auxiliary contacts 3 type of connectable conductor cross-sections for DIN cable lug for main contacts 1		%	10
width	display version for fault signal		Display
height mm 780 depth mm 292 fastening 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 • downwards wire length maximum number of poles for main current circuit 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 number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for DIN cable lug for main contacts	Mechanical data		
depth mm 292 fastening method screw fixing mounting position required spacing with side-by-side mounting • upwards • at the side • downwards wire length maximum number of poles for main current circuit type of electrical connection • for auxiliary and control circuit 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	width	mm	575
fastening method mounting position 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 at the side adomnwards mm 5 wire length maximum mm 500 number of poles for main current circuit 3 Connections/ Terminals type of electrical connection a for auxiliary and control circuit number of NO 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	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 muber of poles for main current circuit type of electrical connection for auxiliary and control circuit spring-loaded 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	depth	mm	292
required spacing with side-by-side mounting upwards at the side downwards mm 5 downwards mm 75 wire length maximum 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 number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for DIN cable lug for main contacts	fastening method	_	screw fixing
 upwards at the side downwards mm tonnections/ 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 	mounting position		vertical mounting surface +/- 22.5° tiltable to the front and
 upwards at the side downwards mm tonnections/ 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 	required spacing with side-by-side mounting		
 at the side downwards mm 75 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 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 		mm	100
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	•	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	downwards	mm	75
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 1 type of connectable conductor cross-sections for DIN cable lug for main contacts	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 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	number of poles for main current circuit		3
for main current circuit for auxiliary and control circuit spring-loaded terminals number of NC contacts for auxiliary contacts number of NO 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	Connections/ Terminals		
for main current circuit for auxiliary and control circuit spring-loaded terminals number of NC contacts for auxiliary contacts number of NO 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	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	5.		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	 for auxiliary and control circuit 		spring-loaded 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			0
number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for DIN cable lug for main contacts			3
type of connectable conductor cross-sections for DIN cable lug for main contacts			1
• finely stranded 50 240 mm ²	type of connectable conductor cross-sections for DIN		
	 finely stranded 		50 240 mm²
• stranded 70 240 mm ²	• stranded		70 240 mm²

turns of commentable conductor areas sections for		
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		
 for main contacts 		2/0 500 kcmil
 for auxiliary contacts 		2x (24 16)
Ambient conditions		
installation altitude at height above sea level	m	5 000
environmental category		
 during transport acc. to IEC 60721 		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
 during operation acc. 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 acc. to IEC 60529		IP00
0-4:6		

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		
 at standard circuit at 50 °C rated value 	hp	950
 at inside-delta circuit at 50 °C rated value 	hp	1 700
• at 575/600 V		
 at standard circuit at 50 °C rated value 	hp	1 200
 at inside-delta circuit at 50 °C rated value 	hp	2 100
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- 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=3RW4466-2BC35

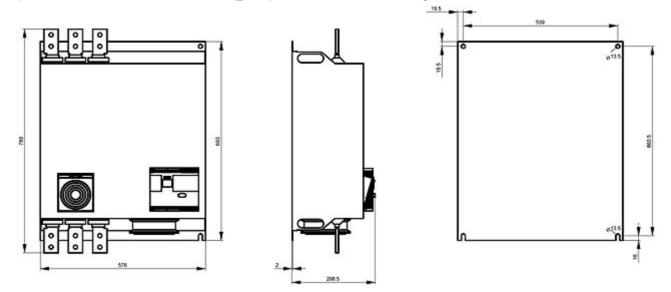
Cax online generator

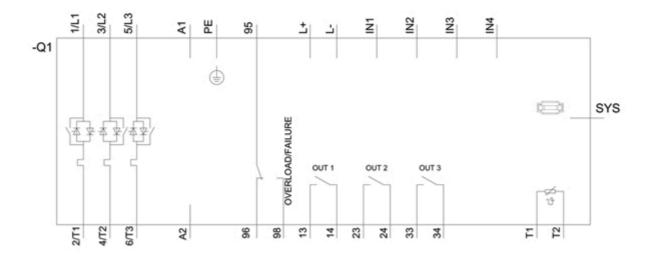
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4466-2BC35

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW4466-2BC35

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4466-2BC35&lang=en





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