SIEMENS

Data sheet 3RW4465-6BC45



SIRIUS soft starter Values at 500 V, 40 °C standard: 1076 A, 800 kW Inside-delta: 1864 A, 1350 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		
 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	1 076
 at 50 °C rated value 	Α	970
at 60 °C rated value	Α	880
operational current for 3-phase motors at inside-delta circuit		
 at 40 °C rated value 	Α	1 864
 at 50 °C rated value 	Α	1 680
 at 60 °C rated value 	Α	1 524
yielded mechanical performance for 3-phase motors		
• at 400 V		
 — at standard circuit at 40 °C rated value 	W	630 000
 — at inside-delta circuit at 40 °C rated value 	W	1 100 000
● at 500 V		
 — at standard circuit at 40 °C rated value 	W	800 000
— at inside-delta circuit at 40 °C rated value	W	1 350 000
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 tolerable voltage at standard circular standard standard circular standar			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-deflat circuit rated value relative positive tolerance of the operating voltage at inside-deflat circuit rated value relative positive tolerance of the operating voltage at inside-deflat circuit relative positive tolerance of the operating voltage at inside-deflat circuit minimum call voltage at inside-deflat circuit minimum call voltage (**) adjustable motor current for motor overload protection minimum rated value continuous operating current (% of le) at 40 °C out (% 115 operation typical operation typical operation typical operation typical control supply voltage frequency 1 rated value ontrol supply voltage frequency 2 rated value relative positive tolerance of the control supply relative positive tolerance of the control supply voltage frequency 2 rated value voltage frequency 2 rated value voltage frequency 2 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 8 rated value voltage frequency 8 rated value voltage frequency 8 rated value voltage frequency 9 rated voltage frequency 9 rated value voltage frequency 1 rated value voltage frequency 9 rated value voltage frequency 1 rated value voltage frequ	relative positive tolerance of the operating frequency	- %	10
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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 • upwards • at the side • downwards wire length maximum mm 500 number of poles for main current circuit For main current circuit • for auxiliary and control circuit number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of pone connectable conductor cross-sections for DIN cable lug for main contacts		%	-15
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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 downwards mm 5 wire length maximum m 500 number of poles for main current circuit 3 Connections/ Terminals type of electrical connection for auxiliary and control circuit screw-type terminals 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 +/-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 downwards mm 75 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 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 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 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 	mounting position		vertical mounting surface +/- 22.5° tiltable to the front and
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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	•	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 number of CO 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
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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			
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			-
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 mm²	type of connectable conductor cross-sections for DIN		
	 finely stranded 		50 240 mm²
• stranded 70 240 mm²	• stranded		70 240 mm²

type of connectable conductor cross-sections for auxiliary contacts		
solid		2x (0.5 2.5 mm²)
finely stranded with core end processing		2x (0.5 1.5 mm²)
type of connectable conductor cross-sections at AWG cables		
 for main contacts 		2/0 500 kcmil
 for auxiliary contacts 		2x (20 14)
 for auxiliary contacts finely stranded with core end processing 		2x (20 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
Sautificated annuavala		

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		
 — at standard circuit at 50 °C rated value 	hp	850
 — at inside-delta circuit at 50 °C rated value 	hp	1 500
• at 575/600 V		
 — at standard circuit at 50 °C rated value 	hp	1 100
 — at inside-delta circuit at 50 °C rated value 	hp	1 900
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=3RW4465-6BC45

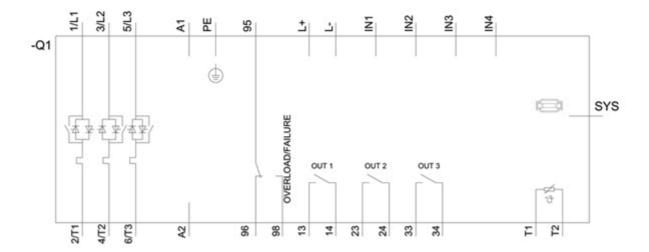
Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW4465-6BC45}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW4465-6BC45

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4465-6BC45&lang=en



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