SIEMENS

Data sheet 3RW44 66-6BC36



SIRIUS soft starter Values at 575 V, 50 °C standard: 1076 A, 1200 hp Inside-delta: 1864 A, 2100 hp 400-690 V AC, 115 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		G
according to IEC 204-2 acc. to IEC 750		

Power Electronics		
Product designation		Soft starter
Operating current		
 at 40 °C rated value 	Α	1 214
• at 50 °C rated value	Α	1 076
• at 60 °C rated value	Α	970
Operating current for three-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
Mechanical power output for three-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
• at 690 V at standard circuit at 40 °C rated value	W	1 200 000
Operating frequency rated value	Hz	50 60
Relative negative tolerance of the operating	%	-10
frequency		
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	242
Continuous operating current [% of le] at 40 °C	%	115
Power loss [W] at operating current at 40 °C during operation typical	W	630
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

roltage frequency Relative positive tolerance of the control supply roltage frequency Control supply voltage 1 at AC	%	-10 10
voltage frequency Control supply voltage 1 at AC	%	10
at 50 Hz rated value		
	V	115
at 60 Hz rated value	V	115
Relative negative tolerance of the control supply	%	-15
roltage at AC at 50 Hz		
Relative positive tolerance of the control supply	%	10
roltage at AC at 50 Hz		
	%	-15
roltage at AC at 60 Hz		
	%	10
roltage at AC at 60 Hz		Diaglass
Display version for fault signal		Display
echanical data		
Vidth	mm	575
leight	mm	780
Depth	mm	292
Mounting type		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
Vire length maximum	m	500
Number of poles for main current circuit		3
onnections/ Terminals		
Type of electrical connection		
for main current circuit		busbar connection
for auxiliary and control current 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		
• finely stranded		50 240 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 conductors	
• 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		IP00

Certificates/ approvals

General Product Approval EMC













Declaration of Conformity

Declaration	of
Conformity	

Test Certificates

Marine / Shipping

Miscellaneous

Special Test Certificate









Marine / Ship-

other

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Confirmation



UL/CSA ratings		
Yielded mechanical performance [hp] for three-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

Simulation Tool for Soft Starters (STS)

https://support.industry.siemens.com/cs/ww/en/view/101494917

Information- and Downloadcenter (Catalogs, Brochures,...)

www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4466-6BC36

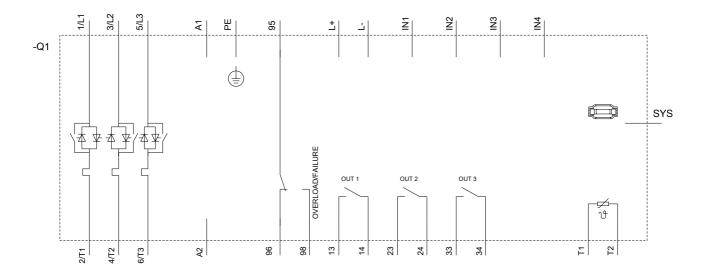
Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW4466-6BC36}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW4466-6BC36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4466-6BC36&lang=en



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