3RW4436-2BC36

SIEMENS



Data sheet



SIRIUS soft starter Values at 575 V, 50 °C standard: 145 A, 125 hp Inside-delta: 251 A, 250 hp 400-690 V AC, 115 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5536-2HA16<<

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 according to EN 61346-2		Q
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750		G
Power Electronics		
product designation		Soft starter
operational current		
 at 40 °C rated value 	А	162
 at 50 °C rated value 	А	145
• at 60 °C rated value	А	125
operational current for 3-phase motors at inside-delta circuit		
 at 40 °C rated value 	А	281
 at 50 °C rated value 	А	251
• at 60 °C rated value	А	217
yielded mechanical performance for 3-phase motors		
• at 400 V		
- at standard circuit at 40 °C rated value	kW	90
- at inside-delta circuit at 40 °C rated value	kW	160
• at 500 V		
- at standard circuit at 40 °C rated value	kW	110
— at inside-delta circuit at 40 °C rated value	kW	200
at 690 V at standard circuit at 40 °C rated value	kW	160
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.
relative negative tolerance of the operating voltage at standard circuit	%	⁴⁰⁰ . ⁻¹⁵ •) dientudong
relative positive tolerance of the operating voltage atstandard 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	32
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	95
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	%	-10
voltage frequency relative positive tolerance of the control supply voltage frequency	%	10
control supply voltage 1 at AC	-	
• at 50 Hz rated value	V	115
at 60 Hz rated value	V	115
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	170
height	mm	200
depth	mm	270
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
number of poles for main current circuit		0
Connections/ Terminals		
Connections/ Terminals		busbar connection
Connections/ Terminals type of electrical connection		
Connections/ Terminals type of electrical connection • for main current circuit		busbar connection
Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts		busbar connection spring-loaded terminals
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		busbar connection spring-loaded terminals 0 3
Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts		busbar connection spring-loaded terminals 0
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 main contacts for box terminal using the front		busbar connection spring-loaded terminals 0 3
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 main contacts for box terminal using the front clamping point		busbar connection spring-loaded terminals 0 3 1

type of connectable conductor cross-sections for main contacts for box terminal using the back	_	dientudong
clamping point		\sim) \sim) \sim)
 finely stranded with core end processing 		16)
 finely stranded without core end processing 		16 70 mm
stranded	_	16 70 mm²
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		
 finely stranded with core end processing 		max. 1x 50 mm ² , 1x 70 mm ²
 finely stranded without core end processing 		max. 1x 50 mm ² , 1x 70 mm ²
stranded	_	max. 2x 70 mm ²
type of connectable conductor cross-sections at AWG cables for main contacts for box terminal		
using the back clamping point		6 2/0
using the front clamping point		6 2/0
using both clamping points		max. 2x 1/0
type of connectable conductor cross-sections for DIN cable lug for main contacts		
finely stranded		16 95 mm ²
• stranded		25 120 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		
for main contacts for auxiliant contacts		4 250 kcmil
for auxiliary contacts	_	2x (24 16)
Ambient conditions installation altitude at height above sea level	m	5 000
environmental category		5 000
• during transport according to IEC 60721		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
 during storage according to IEC 60721 		1K6 (only occasional condensation), 1C2 (no salt mist),
• during operation according to IEC 60721		1S2 (sand must not get inside the devices), 1M4 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 according to IEC 60529		IP00; IP20 with box terminal/cover
touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front with box terminal/cover
Certificates/ approvals		
General Product Approval		EMC
	<u>on</u>	
Declaration of Conformity Test Certificates	Ма	rine / Shipping
Type Test Certific- Special Test C	ertific-	(TI)

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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	100
- at inside-delta circuit at 50 °C rated value	hp	200
• at 575/600 V		
 — at standard circuit at 50 °C rated value 	hp	125
- at inside-delta circuit at 50 °C rated value	hp	250
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=3RW4436-2BC36

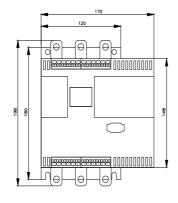
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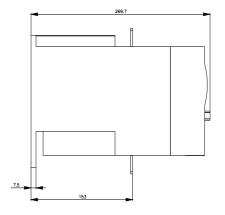
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4436-2BC36

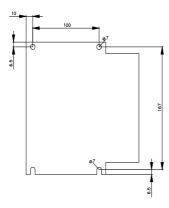
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RW4436-2BC36

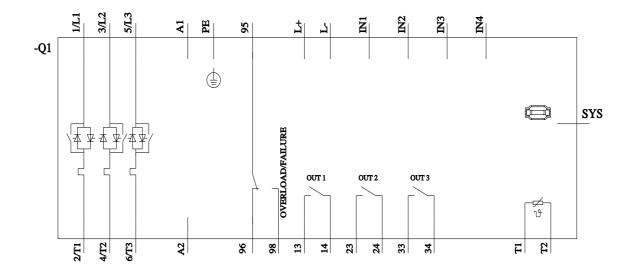
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4436-2BC36&lang=en











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