3RW4444-6BC36

# SIEMENS



#### Data sheet



SIRIUS soft starter Values at 575 V, 50 °C standard: 215 A, 200 hp Inside-delta: 372 A, 350 hp 400-690 V AC, 115 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5544-6HA16<<

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
external reset		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 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		
<ul> <li>at 40 °C rated value</li> </ul>	А	250
<ul> <li>at 50 °C rated value</li> </ul>	А	215
• at 60 °C rated value	А	185
operational current for 3-phase motors at inside-delta circuit		
<ul> <li>at 40 °C rated value</li> </ul>	А	433
<ul> <li>at 50 °C rated value</li> </ul>	A	372
• at 60 °C rated value	А	320
yielded mechanical performance for 3-phase motors		
• at 400 V		
- at standard circuit at 40 °C rated value	kW	132
<ul> <li>— at inside-delta circuit at 40 °C rated value</li> </ul>	kW	250
• at 500 V		
- at standard circuit at 40 °C rated value	kW	160
- at inside-delta circuit at 40 °C rated value	kW	315
<ul> <li>at 690 V at standard circuit at 40 °C rated value</li> </ul>	kW	250
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 diontudona
relative negative tolerance of the operating voltage at standard circuit	%	<sup>400.</sup> -15 • dientudong
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	50
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	110
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 voltage frequency	%	-10
relative positive tolerance of the control supply voltage frequency	%	10
control supply voltage 1 at AC		
<ul> <li>at 50 Hz rated value</li> </ul>	V	115
<ul> <li>at 60 Hz rated value</li> </ul>	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	210
height	mm	230
depth	mm	298
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		
Connections/ Terminals type of electrical connection		
		busbar connection
type of electrical connection		busbar connection screw-type terminals
type of electrical connection • for main current circuit		
type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> </ul> <li>number of NC contacts for auxiliary contacts</li>		screw-type 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		screw-type terminals 0
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		screw-type terminals 0 3
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		screw-type terminals 0 3
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		screw-type terminals 0 3
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		screw-type terminals 0 3 1

type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		dientudong
finely stranded with core end processing		
<ul> <li>finely stranded without core end processing</li> </ul>		120 185 mm <sup>2</sup>
• stranded		120 240 mm²
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		
<ul> <li>finely stranded with core end processing</li> </ul>		min. 2x 50 mm², max. 2x 185 mm²
<ul> <li>finely stranded without core end processing</li> </ul>		min. 2x 50 mm², max. 2x 185 mm²
<ul> <li>stranded</li> </ul>		max. 2x 70 mm <sup>2</sup> , max. 2x 240 mm <sup>2</sup>
type of connectable conductor cross-sections at AWG cables for main contacts for box terminal		
<ul> <li>using the back clamping point</li> </ul>		250 500 kcmil
<ul> <li>using the front clamping point</li> </ul>		3/0 600 kcmil
<ul> <li>using both clamping points</li> </ul>		min. 2x 2/0, max. 2x 500 kcmil
type of connectable conductor cross-sections for DIN cable lug for main contacts		
<ul> <li>finely stranded</li> </ul>		50 240 mm²
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</li> </ul>		2x (20 16)
processing		
Ambient conditions		
installation altitude at height above sea level	m	5 000
environmental category		
<ul> <li>during transport according to IEC 60721</li> </ul>		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
during storage according to IEC 60721		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
during operation according 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		
<ul> <li>during operation</li> </ul>	°C	60
<ul> <li>during storage</li> </ul>	°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
Confirmation CSA	<u>on</u>	
Declaration of Conformity Test Certificates	М	larine / Shipping
	IVI	
	IVI	



Marine / Shipping

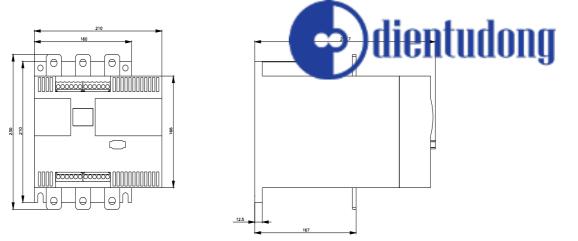
Special Test Certificate Type Test Certificates/Test Report

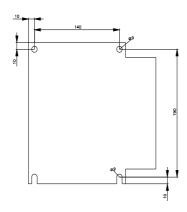
other

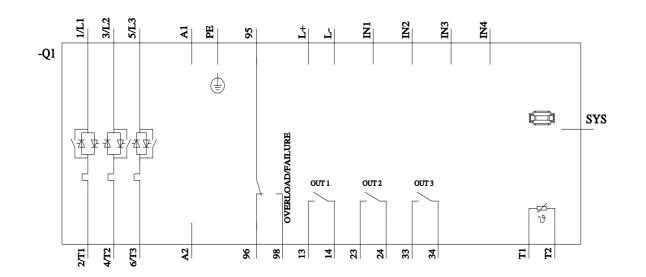


PRS Confirmation	<u>on</u>				
UL/CSA ratings					
yielded mechanical performance [hp] for 3-phase AC motor					
• at 460/480 V					
<ul> <li>— at standard circuit at 50 °C rated value</li> </ul>	hp	150			
— at inside-delta circuit at 50 °C rated value	hp	300			
● at 575/600 V					
<ul> <li>— at standard circuit at 50 °C rated value</li> </ul>	hp	200			
— at inside-delta circuit at 50 °C rated value	hp	350			
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=3RW4444-6BC36				
Cax online generator					
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4444-6BC36 Service&Support (Manuals, Certificates, Characteristics, FAQs)					
https://support.industry.siemens.com/cs/ww/en/ps/3RW4444-6BC36					
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#### last modified:

1/16/2022 🖸