SIEMENS

Data sheet



SIRIUS soft starter Values at 400 V, 40 °C standard: 356 A, 200 kW Inside-delta: 617 A, 355 kW 200-460 V AC, 230 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5546-2HA14<<

3RW4446-2BC44

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	А	356
 at 50 °C rated value 	А	315
• at 60 °C rated value	А	280
operational current for 3-phase motors at inside-delta circuit	-	
• at 40 °C rated value	А	617
• at 50 °C rated value	А	546
• at 60 °C rated value	А	485
yielded mechanical performance for 3-phase motors		
• at 230 V		
 — at standard circuit at 40 °C rated value 	W	110 000
- at inside-delta circuit at 40 °C rated value	W	200 000
• at 400 V		
- at standard circuit at 40 °C rated value	W	200 000
- at inside-delta circuit at 40 °C rated value	W	355 000
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	100
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	200 460
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	200 460
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	A	71
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	174
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	_	
• at 50 Hz rated value	V	230
• at 60 Hz rated value	V	230
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		
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 main contacts for box terminal using the front clamping point		
 finely stranded with core end processing 		70 240 mm²

	70 240 mm ² 95 300 mm ² 120 185 mm ² 120 185 mm ² 120 240 mm ² min. 2x 50 mm ² , max. 2x 185 m min. 2x 50 mm ² , max. 2x 185 m max. 2x 70 mm ² , max. 2x 240 m	1m²
	120 185 mm ² 120 185 mm ² 120 240 mm ² min. 2x 50 mm ² , max. 2x 185 m min. 2x 50 mm ² , max. 2x 185 m	1m²
	120 185 mm ² 120 240 mm ² min. 2x 50 mm ² , max. 2x 185 m min. 2x 50 mm ² , max. 2x 185 m	1m²
	120 185 mm ² 120 240 mm ² min. 2x 50 mm ² , max. 2x 185 m min. 2x 50 mm ² , max. 2x 185 m	1m²
	120 240 mm² min. 2x 50 mm², max. 2x 185 m min. 2x 50 mm², max. 2x 185 m	1m²
	min. 2x 50 mm², max. 2x 185 m min. 2x 50 mm², max. 2x 185 n	1m²
	min. 2x 50 mm², max. 2x 185 m	1m²
	min. 2x 50 mm², max. 2x 185 m	1m²
	max. 2x 70 mm², max. 2x 240 r	nm²
	250 500 kcmil	
	3/0 600 kcmil	
	min. 2x 2/0, max. 2x 500 kcmil	
	70 240 mm²	
	2x (0.25 1.5 mm ²)	
	2x (0.25 1.5 mm ²)	
	2/0 500 kcmil	
	2x (24 16)	
m	5 000	
	2K2, 2C1, 2S1, 2M2 (max. fall	neight 0.3 m)
	3K6 (no formation of ice, no co	ndensation), 3C3 (no sal
		,,
°C	60	
°C	-25 +80	
°C	40	
	IP00; IP20 with box terminal/co	ver
	finger-safe, for vertical contact terminal/cover	from the front with box
	EMC	Declaration of Conformity
	°C ℃	2/0 500 kcmil 2x (24 16) m 5 000 2K2, 2C1, 2S1, 2M2 (max. fall H 1K6 (only occasional condensa 1S2 (sand must not get inside t 3K6 (no formation of ice, no con mist), 3S2 (sand must not get in °C 60 °C -25 +80 °C 40 IP00; IP20 with box terminal/co finger-safe, for vertical contact to terminal/cover

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Marine / Shipping other

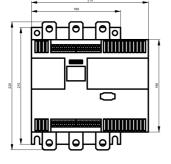
Confirmation

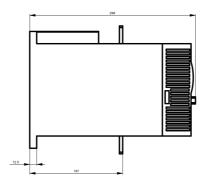
UL/CSA ratings		
yielded mechanical performance [hp] for 3-phase AC motor		
• at 200/208 V		
- at inside-delta circuit at 50 °C rated value	hp	150
• at 220/230 V		
 — at standard circuit at 50 °C rated value 	hp	125
- at inside-delta circuit at 50 °C rated value	hp	200
• at 460/480 V		
 — at standard circuit at 50 °C rated value 	hp	250
- at inside-delta circuit at 50 °C rated value	hp	450
contact rating of auxiliary contacts according to UL		B300 / R300

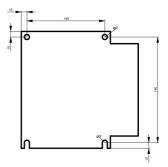
Further information

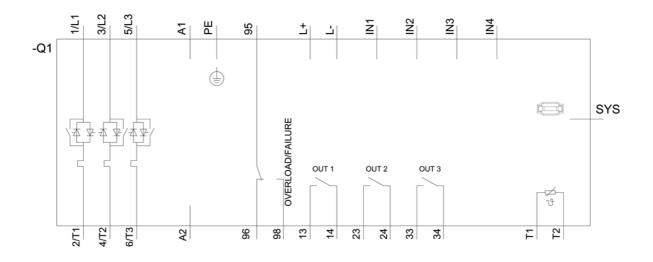
Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917 Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4446-2BC44 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4446-2BC44 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4446-2BC44

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4446-2BC44&lang=en









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