3RW4443-2BC45

SIEMENS



Data sheet



SIRIUS soft starter Values at 500 V, 40 °C standard: 203 A, 132 kW Inside-delta: 352 A, 250 kW 400-600 V AC, 230 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5543-2HA16<<

General technical data	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	203			
• at 50 °C rated value	А	180			
• at 60 °C rated value	А	156			
operational current for 3-phase motors at inside-delta circuit					
 at 40 °C rated value 	А	352			
 at 50 °C rated value 	А	312			
• at 60 °C rated value	A	270			
yielded mechanical performance for 3-phase motors					
• at 400 V					
— at standard circuit at 40 °C rated value	kW	110			
- at inside-delta circuit at 40 °C rated value	kW	200			
• at 500 V					
- at standard circuit at 40 °C rated value	kW	132			
— at inside-delta circuit at 40 °C rated value	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	400 600			

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relative negative tolerance of the operating voltage at standard circuit	%	⁻¹⁵ () dientudong
relative positive tolerance of the operating voltage at standard circuit	%	
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	A	40
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	89
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 3
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts		3
type of connectable conductor cross-sections for		1
main contacts for box terminal using the front clamping point		
 finely stranded with core end processing 		70 240 mm²
 finely stranded without core end processing 		70 240 mm²
stranded		95 300 mm²
type of connectable conductor cross-sections for main contacts for box terminal using the back		

clamping point					Allon	tudong	
-	with core end processi	-		120 5 mm))	tudong	
	without core end proce	ssing		120 . m		cuuony	
stranded				120 z m	n²		
	conductor cross-sec ox terminal using bot						
 finely stranded 	with core end processi	ng		min. 2x 50 mm	n², max. 2x 185 mm²		
 finely stranded 	without core end proce	ssing		min. 2x 50 mm	n², max. 2x 185 mm²		
 stranded 				max. 2x 70 mm	m², max. 2x 240 mm²		
	conductor cross-sec						
	tacts for box terminal						
 using the back 	1 01			250 500 kcm			
using the front	1 01			3/0 600 kcm			
using both clan				min. 2x 2/0, m	ax. 2x 500 kcmil		
type of connectable cable lug for main c	conductor cross-sec	tions for DIN					
 finely stranded 				50 240 mm²	2		
 stranded 				70 240 mm ²			
	conductor cross-sec	tions for		10 240 mm			
auxiliary contacts							
 solid 				2x (0.25 1.5	mm²)		
 finely stranded 	with core end processi	ng		2x (0.25 1.5	mm²)		
type of connectable cables	conductor cross-sec	tions at AWG					
 for main contact 	ots			2/0 500 kcm	nil		
 for auxiliary cor 	ntacts			2x (24 16)			
Ambient conditions							
installation altitude	at height above sea le	evel	m	5 000			
environmental cates	gory						
	t according to IEC 6072			2K2, 2C1, 2S1	, 2M2 (max. fall heigh	t 0.3 m)	
 during storage 	according to IEC 6072	l i			asional condensation),		
 during operatio 	n according to IEC 607	21		3K6 (no forma	st not get inside the de tion of ice, no condens nd must not get into th	sation), 3C3 (no salt	
ambient temperatur	e				-		
 during operatio 	n		°C	60			
during storage			°C	-25 +80			
derating temperatur	derating temperature			40			
protection class IP on the front according to IEC 60529				IP00; IP20 with	IP00; IP20 with box terminal/cover		
touch protection on the front according to IEC 60529				finger-safe, for terminal/cover	vertical contact from t	the front with box	
Certificates/ approval	ls						
General Product Ap	oproval					EMC	
						-	
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CSA		ccc		UL		RCM	
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EG-Konf.				ABS	BUREAU	LRS	
					VERITAS		
Marine / Shipping		other					

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Confirmation



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	125	
- at inside-delta circuit at 50 °C rated value	hp	250	
• at 575/600 V			
 — at standard circuit at 50 °C rated value 	hp	150	
- at inside-delta circuit at 50 °C rated value	hp	300	
contact rating of auxiliary contacts according to UL		B300 / R300	
Surther information			

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)

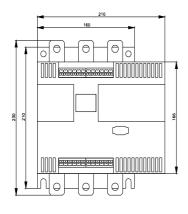
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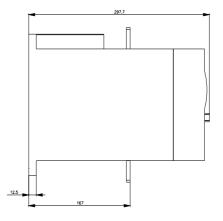
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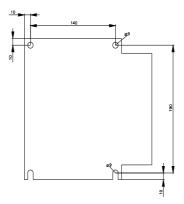
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4443-2BC45 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

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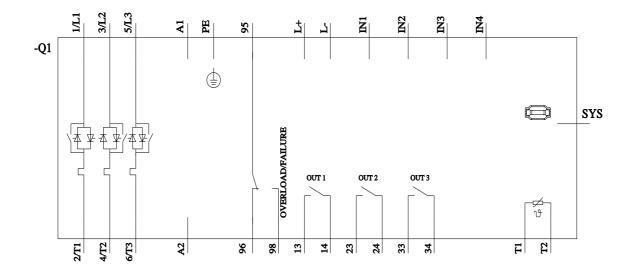
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4443-2BC45&lang=en











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