SIEMENS

Data sheet

3RW4455-2BC44

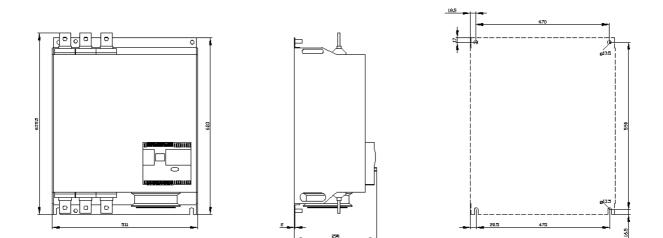


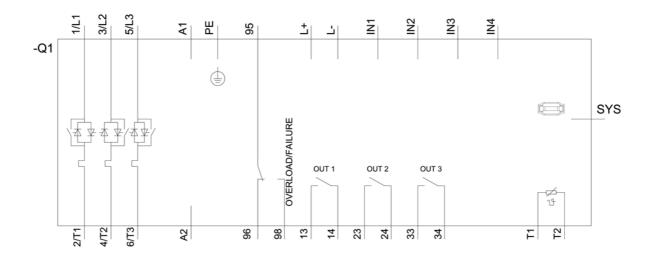
SIRIUS soft starter Values at 400 V, 40 °C standard: 693 A, 400 kW Inside-delta: 1200 A, 710 kW 200-460 V AC, 230 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5553-2HA14<<

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	693
 at 50 °C rated value 	А	615
 at 60 °C rated value 	A	551
operational current for 3-phase motors at inside-delta circuit		
 at 40 °C rated value 	А	1 200
 at 50 °C rated value 	А	1 065
 at 60 °C rated value 	А	954
yielded mechanical performance for 3-phase motors		
• at 230 V		
- at standard circuit at 40 °C rated value	W	200 000
- at inside-delta circuit at 40 °C rated value	W	400 000
• at 400 V		
- at standard circuit at 40 °C rated value	W	400 000
- at inside-delta circuit at 40 °C rated value	W	710 000
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	200
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	138
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	220
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	510
height	mm	640
depth	mm	290
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 DIN cable lug for main contacts		
 finely stranded 		50 240 mm²
		70 240 mm²

 solid finely stranded with core end processing type of connectable conductor cross-sections at AWG cables for main contacts for auxiliary contacts for auxiliary contacts 2/0 500 kcmil 2x (24 16) Ambient conditions installation altitude at height above sea level m 5 000 environmental category during transport acc. to IEC 60721 during storage acc. to IEC 60721 K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4	auxiliary contacts						
Type of connectable conductor cross-sections at AWG 2/0	-		2x (0.25 1.5	mm²)			
cisies - for main contacts 20, 500 kcmil 2 / or auxiliary contacts 2 / or auxiliary contacts 2 / or auxiliary contacts Ambient conditions m 5 000 Installation attitude at height above sea level m 5 000 environmental category - during throught above sea level m 5 000 environmental category - during storage acc. to IEC 60721 2 / 2 / 2 / 2 / 3 / 3 / 2 / 2 / 0 / 3 / 1 / 2 / 2 / 0 / 3 / 1 / 2 / 2 / 2 / 2 / 3 / 3 / 2 / 2 / 2 / 2	 finely stranded with core end processing 		2x (0.25 1.5 mm²)				
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