SIEMENS

Data sheet

3RW4457-6BC44



SIRIUS soft starter Values at 400 V, 40 °C standard: 880 A, 500 kW Inside-delta: 1524 A, 900 kW 200-460 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5556-6HA14<<

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		G
to IEC 204-2 acc. to IEC 750		
Power Electronics		
product designation		Soft starter
operational current		
 at 40 °C rated value 	А	880
 at 50 °C rated value 	А	780
 at 60 °C rated value 	А	693
operational current for 3-phase motors at inside-delta circuit		
 at 40 °C rated value 	А	1 524
 at 50 °C rated value 	А	1 351
• at 60 °C rated value	А	1 200
yielded mechanical performance for 3-phase motors		
• at 230 V		
 — at standard circuit at 40 °C rated value 	W	250 000
- at inside-delta circuit at 40 °C rated value	W	500 000
• at 400 V		
- at standard circuit at 40 °C rated value	W	500 000
	W	900 000
 — at inside-delta circuit at 40 °C rated value 		

	_	
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	176
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	VV	250
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 		screw-type 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		

		50 240 mm ²	2	
finely stranded				
• stranded		70 240 mm ²	2	
type of connectable conductor cross-sections for				
euxiliary contacts solid 		2x (0.5. 2.5.	mm ²)	
		2x (0.5 2.5)		
• finely stranded with core end processing		2x (0.5 1.5 i	mm²)	
type of connectable conductor cross-sections at AWG cables				
for main contacts		2/0 500 kcm	ail	
for auxiliary contacts		2x (20 14)		
 for auxiliary contacts finely stranded with core end processing 		2x (20 16)		
mbient conditions	-			
		5.000	_	_
installation altitude at height above sea level	m	5 000		
environmental category				
during transport acc. to IEC 60721			I, 2M2 (max. fall heigh	
 during storage acc. to IEC 60721 		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4		
- during exerction and to IEC 00721			•	,
 during operation acc. to IEC 60721 			ition of ice, no conden nd must not get into th	
ambient temperature			in the second second of the	
during operation	°C	60		
during storage	°C	-25 +80		
derating temperature	°C	40		
protection class IP on the front acc. to IEC 60529	0	IP00		
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		rnr	A	Conformity
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Special Test Certific- ate ABS U/CSA ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V	hp			CE
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Special Test Certificate ate Special Test Certificate Special Test Certificate Special Test Certificate Special Test Certificate yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V - at inside-delta circuit at 50 °C rated value • at 220/230 V - at standard circuit at 50 °C rated value - at standard circuit at 50 °C rated value - at standard circuit at 50 °C rated value - at inside-delta circuit at 50 °C rated value - at inside-delta circuit at 50 °C rated value - at inside-delta circuit at 50 °C rated value - at inside-delta circuit at 50 °C rated value - at inside-delta circuit at 50 °C rated value - at inside-delta circuit at 50 °C rated value - at inside-delta circuit at 50 °C rated value Simulation Tool for Soft Starters (STS)	hp hp hp	450 300 600 700 1 200		CE
Special Test Certificate ate Image: Special Test Certificate ate Image: Special Test Certificate ate Image: Special Test Certificate	hp hp hp hp	450 300 600 700 1 200		CE
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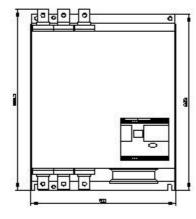
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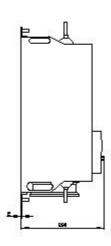
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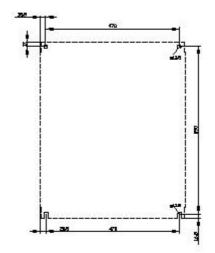
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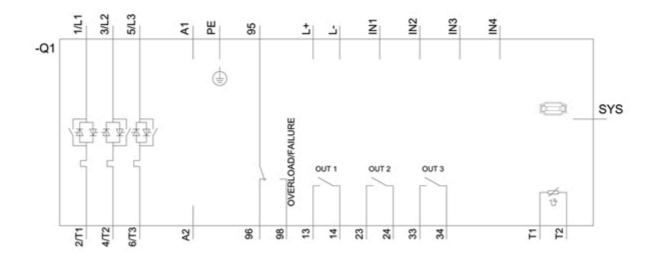
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