SIEMENS

Data sheet

3RW4457-2BC45

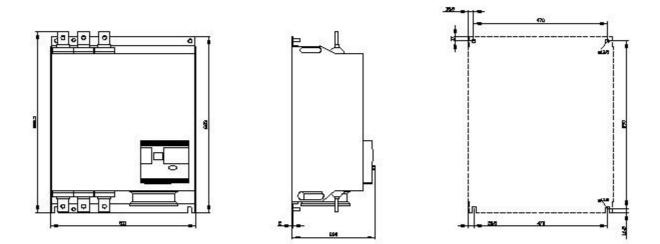


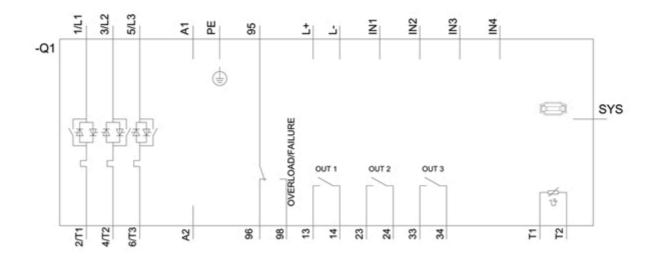
SIRIUS soft starter Values at 500 V, 40 °C standard: 880 A, 630 kW Inside-delta: 1524 A, 1000 kW 400-600 V AC, 230 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5556-2HA16<<

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	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 400 V		
 — at standard circuit at 40 °C rated value 	W	500 000
— at inside-delta circuit at 40 °C rated value	W	900 000
● at 500 V		
— at standard circuit at 40 °C rated value	W	630 000
— at inside-delta circuit at 40 °C rated value	W	1 000 000
operating frequency rated value	Hz	50 60
relative negative tolerance of the operating frequency	%	-10

		10
relative positive tolerance of the operating frequency	%	10
operating voltage at standard circuit rated value	V	400 600
relative negative tolerance of the operating voltage at standard circuit	%	-15
relative positive tolerance of the operating voltage atstandard 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	176
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	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 		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

type of connectable conductor cross-sections for auxiliary contacts				
solid		2x (0.25 1.5	5 mm²)	
 finely stranded with core end processing 		2x (0.25 1.5		
type of connectable conductor cross-sections at AWG		27 (0.20 1.0		
cables				
for main contacts		2/0 500 kcmil		
 for auxiliary contacts 		2x (24 16)		
mbient conditions				
installation altitude at height above sea level	m	5 000		
environmental category				
 during transport acc. to IEC 60721 		2K2, 2C1, 2S	1, 2M2 (max. fall hei	ght 0.3 m)
 during storage acc. to IEC 60721 				n), 1C2 (no salt mist),
			ist not get inside the	
during operation acc. to IEC 60721		3K6 (no formation of ice, no condensation), 3C3 (no sa mist), 3S2 (sand must not get into the devices), 3M6		
ambient temperature		11100), 002 (00		
during operation	°C	60		
during storage	°C	-25 +80		
derating temperature	°C	40		
protection class IP on the front acc. to IEC 60529		IP00		
ertificates/ approvals				
General Product Approval			EMC	Declaration of Conformity
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		LIIL	RCM	EG-Konf.
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