## SIEMENS

## Data sheet

## 3RW4456-2BC45

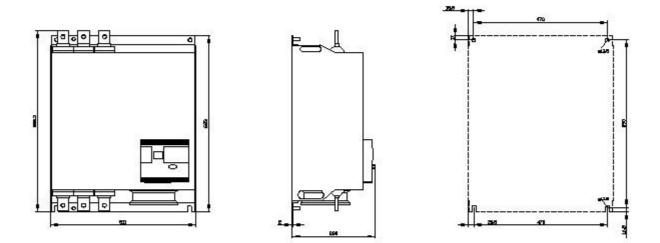


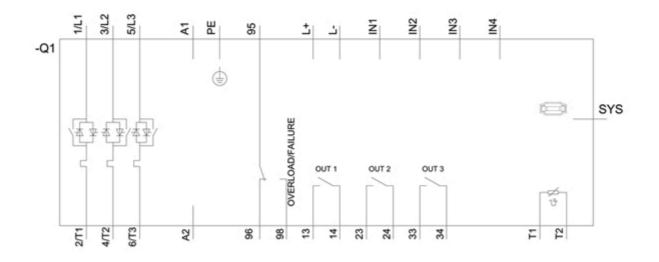
SIRIUS soft starter Values at 500 V, 40 °C standard: 780 A, 560 kW Inside-delta: 1351 A, 900 kW 400-600 V AC, 230 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5554-2HA16<<

General technical data		
product brand name		SIRIUS
product feature		
<ul> <li>integrated bypass contact system</li> </ul>		Yes
thyristors		Yes
product function		
<ul> <li>intrinsic device protection</li> </ul>		Yes
<ul> <li>motor overload protection</li> </ul>		Yes
<ul> <li>evaluation of thermistor motor protection</li> </ul>		Yes
external reset		Yes
<ul> <li>adjustable current limitation</li> </ul>		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		
<ul> <li>at 40 °C rated value</li> </ul>	А	780
<ul> <li>at 50 °C rated value</li> </ul>	А	693
• at 60 °C rated value	А	615
operational current for 3-phase motors at inside-delta circuit		
<ul> <li>at 40 °C rated value</li> </ul>	А	1 351
<ul> <li>at 50 °C rated value</li> </ul>	А	1 200
• at 60 °C rated value	А	1 065
yielded mechanical performance for 3-phase motors		
• at 400 V		
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	W	450 000
— at inside-delta circuit at 40 °C rated value	W	800 000
● at 500 V		
- at standard circuit at 40 °C rated value	W	560 000
— at inside-delta circuit at 40 °C rated value	W	900 000
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
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	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	156
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	214
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
<ul> <li>for auxiliary and control circuit</li> </ul>		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		
<ul> <li>finely stranded</li> </ul>		50 240 mm²
• stranded		70 240 mm²

auxiliary contacts      • solid      • finely stranded with core end processing  type of connectable conductor cross-sections at AWG				
	2x (0.25 1.5 mm²)			
		2x (0.25 1.5 mm <sup>2</sup> )		
cables				
for main contacts		2/0 500 kcmil		
<ul> <li>for auxiliary contacts</li> </ul>		2x (24 16)		
mbient conditions		, , , , , , , , , , , , , , , , , , ,		
nstallation altitude at height above sea level	m	5 000		
environmental category				
during transport acc. to IEC 60721		2K2, 2C1, 2S1	, 2M2 (max. fall heigl	ht 0.3 m)
during storage acc. to IEC 60721		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4		
0				
during operation acc. to IEC 60721		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6		
ambient temperature			0	,.
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
		tHL		EG-Konf.
Test Certificates Marine / Shipping			other	
not continued marine / onipping			othor	
ate		Lloyds	<b>Confirmation</b>	
ABS B UREAU VERITAS		URS		
_/CSA ratings		URS		
		UIS		
_/CSA ratings /ielded mechanical performance [hp] for 3-phase AC		UIS		
_/CSA ratings yielded mechanical performance [hp] for 3-phase AC notor	hp	URS 600		
L/CSA ratings vielded mechanical performance [hp] for 3-phase AC notor • at 460/480 V			_	
L/CSA ratings vielded mechanical performance [hp] for 3-phase AC motor • at 460/480 V — at standard circuit at 50 °C rated value	hp	600		
<ul> <li>L/CSA ratings</li> <li>yielded mechanical performance [hp] for 3-phase AC motor</li> <li>at 460/480 V</li> <li>at standard circuit at 50 °C rated value</li> <li>at inside-delta circuit at 50 °C rated value</li> </ul>	hp	600		
<ul> <li>L/CSA ratings</li> <li>yielded mechanical performance [hp] for 3-phase AC motor</li> <li>at 460/480 V         <ul> <li>at 460/480 V</li> <li>at standard circuit at 50 °C rated value</li> <li>at inside-delta circuit at 50 °C rated value</li> <li>at 575/600 V</li> </ul> </li> </ul>	hp hp	600 1 050		
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<ul> <li>Joint Contract and the second secon</li></ul>	hp hp hp hp <u>117</u> ) ?mlfb=3RW t.aspx?lang FAQs,) 2BC45	600 1 050 750 1 350 B300 / R300 44456-2BC45 =en&mlfb=3RW44		





last modified:

1/18/2021 🖸