3RW4453-6BC44

# SIEMENS



#### Data sheet



SIRIUS soft starter Values at 400 V, 40 °C standard: 551 A, 315 kW Inside-delta: 954 A, 560 kW 200-460 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5548-6HA14<<

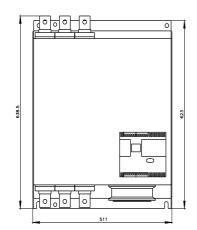
General technical data		
product brand name		SIRIUS
product feature		
<ul> <li>integrated bypass contact system</li> </ul>		Yes
thyristors		Yes
product function		
<ul> <li>intrinsic device protection</li> </ul>		Yes
<ul> <li>motor overload protection</li> </ul>		Yes
<ul> <li>evaluation of thermistor 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 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		
<ul> <li>at 40 °C rated value</li> </ul>	А	551
<ul> <li>at 50 °C rated value</li> </ul>	А	494
• at 60 °C rated value	А	438
operational current for 3-phase motors at inside-delta circuit		
• at 40 °C rated value	А	954
<ul> <li>at 50 °C rated value</li> </ul>	А	856
<ul> <li>at 60 °C rated value</li> </ul>	А	759
yielded mechanical performance for 3-phase motors • at 230 V		
— at standard circuit at 40 °C rated value	kW	160
— at inside-delta circuit at 40 °C rated value	kW	315
• at 400 V		
— at standard circuit at 40 °C rated value	kW	315
— at inside-delta circuit at 40 °C rated value	kW	560
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	150
operating frequency rated value	Hz	50 60

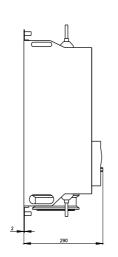
	-	
relative negative tolerance of the operating frequency	%	-10 diontudong
relative positive tolerance of the operating frequency	%	<sup>-10</sup> <sup>10</sup> <sup>200</sup> <b>dientudong</b>
operating voltage at standard circuit rated value	V	
relative negative tolerance of the operating voltage at 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	110
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	159
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		
<ul> <li>for main current circuit</li> </ul>		busbar connection
<ul> <li>for auxiliary and control circuit</li> </ul>		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		
finely stranded		50 240 mm <sup>2</sup>
<ul> <li>stranded</li> </ul>		70 240 mm²

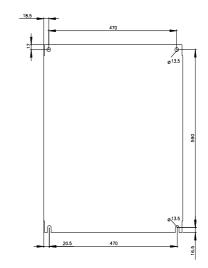
auxiliary contacts	e conductor cross-sect	IONS IOF				
					s Adion	itudong
<ul> <li>solid</li> </ul>				2x (0	<sup>m²</sup> )/UIGI	lluuviil
<ul> <li>finely stranded</li> </ul>	I with core end processir	Ig		2x (0.5 n	nm <sup>*</sup> )	
type of connectable cables	e conductor cross-sect	ions at AWG		_		
<ul> <li>for main contain</li> </ul>	cts			2/0 500 kcm	il	
<ul> <li>for auxiliary co</li> </ul>	ontacts			2x (20 14)		
<ul> <li>for auxiliary co processing</li> </ul>	ntacts finely stranded wi	th core end		2x (20 16)		
Multions						
installation altitude	at height above sea le	vel	m	5 000		
environmental category						
<ul> <li>during transport according to IEC 60721</li> </ul>			2K2, 2C1, 2S1	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
during storage according to IEC 60721				1K6 (only occasional condensation), 1C2 (no salt mist),		
during operation according to IEC 60721			3K6 (no format	1S2 (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6		
ambient temperatu	re			11130), 002 (301	ia materior ger mot t	
<ul> <li>during operation</li> </ul>			°C	60		
<ul> <li>during operation</li> <li>during storage</li> </ul>			°C	-25 +80		
derating temperatu			ວ°	-25 +80		
	on the front according	to IEC	C	IP00		
60529	on the none according			IF 00		
ertificates/ approva	ls					
General Product A						EMC
						_
	<b>Confirmation</b>	m		Ē	гпг	A
NE.		(m)			FHI	<u>/@\</u>
Declaration of Conformity	Test Certificates	Marine / Shipp	ping			other
		Marine / Shipp	ping	(11)		
	Test Certificates <u>Special Test Certificates</u>	Marine / Shipp	ping		Hoyds	other Confirmation
	Special Test Certific-	Marine / Shipp	ping		Hovds Register	
	Special Test Certific-	Marine / Shipp	ping	BUREAU VERITAS	Lloydis Register Lirs	
	Special Test Certific-	Marine / Shipp	ping	BUREAU VERITAS	Hoydis Register urs	
Conformity CEG-Konf, UL/CSA ratings	Special Test Certific- ate	ABS	ping	B UREAU VERITAS	Hovds Register urs	
Conformity CEG-Konf.	Special Test Certific-	ABS	ping	BUREAU VERITAS	Lloyds Kegister uis	
Conformity Conformity EG-Konf.	Special Test Certific- ate	ABS	_	BUREAU VERITAS	Lloyds Register urs	
Conformity Conformity EG-Konf. L/CSA ratings yielded mechanical motor • at 200/208 V — at inside-( • at 220/230 V	Special Test Certific- ate	ABS B-phase AC	ping hp	BUREAU VERITAS	Llovdis Register Lits	
Conformity Conformity EG-Konf.	Special Test Certific- ate	ABS B-phase AC	_	OF REAU VERITAS 300 200	Lins	
Conformity Conformity Conformity Conformity EG-Konf. VL/CSA ratings yielded mechanical motor • at 200/208 V — at inside-4 • at 220/230 V — at standa	Special Test Certific- ate	Abs Abs B-phase AC ed value value	hp		LIRS	
Conformity Conformity EG-Konf. L/CSA ratings yielded mechanical motor • at 200/208 V — at inside-( • at 220/230 V — at standa — at inside-( • at 460/480 V	Special Test Certific- ate	ABS ABS ABS ABS ABS ABS ABS ABS ABS ABS	hp	200	LIKS	
Conformity Conformity EG-Konf. L/CSA ratings yielded mechanical motor • at 200/208 V — at inside-( • at 220/230 V — at standa — at inside-( • at 460/480 V — at standa	Special Test Certific- ate	ABS ABS ABS ABS ABS ABS ABS ABS ABS ABS	hp hp hp	200 350	LIKS	
Conformity Confor	Special Test Certific- ate	ABS ABS ABS ABS ABS ABS ABS ABS ABS ABS	hp hp hp hp	200 350 400	LIRS	
Conformity Confor	Special Test Certific- ate	ABS ABS ABS ABS ABS ABS ABS ABS ABS ABS	hp hp hp hp	200 350 400 750	LIRS	
Conformity Confor	Special Test Certific- ate	ABS ABS ABS ABS ABS ABS ABS ABS ABS ABS	hp hp hp hp	200 350 400 750	LIS	
Conformity Confor	Special Test Certific- ate performance [hp] for 3 delta circuit at 50 °C rated delta circuit at 50 °C rated v delta circuit at 50 °C rated v	ABS ABS ABS ABS ABS ABS ABS ABS	hp hp hp hp hp	200 350 400 750	LIKS	
Conformity Confor	Special Test Certific- ate performance [hp] for 3 delta circuit at 50 °C rated delta circuit at 50 °C rated v delta circuit	ABS ABS ABS ABS ABS ABS ABS ABS	hp hp hp hp hp	200 350 400 750	LIS	
Conformity Confor	Special Test Certific- ate performance [hp] for 3 delta circuit at 50 °C rated delta circuit at 50 °C rated v delta circuit	ABS ABS ABS ABS ABS ABS ABS ABS	hp hp hp hp hp	200 350 400 750	LIS	
Conformity Confor	Special Test Certific- ate performance [hp] for 3 delta circuit at 50 °C rated delta circuit at 50 °C rated scenziliary contacts accord Soft Starters (STS) try.siemens.com/cs/ww/c pownloadcenter (Catalog scom/ic10 te ordering system)	ABS ABS ABS ABS ABS ABS ABS ABS	hp hp hp hp hp 17 .)	200 350 400 750 B300 / R300	LIKS	
Conformity Confor	Special Test Certific- ate performance [hp] for 3 delta circuit at 50 °C rated delta circuit at 50 °C rated v delta circuit	ABS ABS ABS ABS ABS ABS ABS ABS	hp hp hp hp hp 17 .)	200 350 400 750 B300 / R300	LIS	

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4453-6BC44 Image database (product images, 2D dimension drawings, 3D models, devic http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4453-6BC448

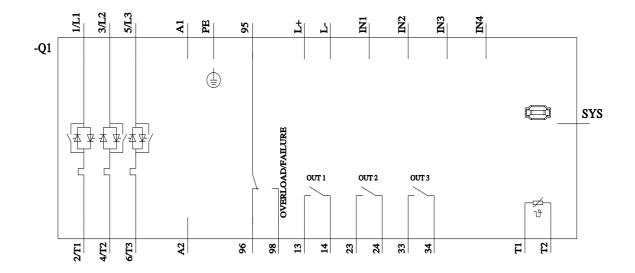












last modified:

1/16/2022 🖸