SIEMENS

Data sheet

3RW4453-6BC44



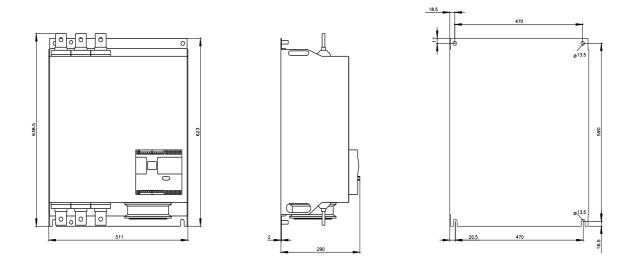
SIRIUS soft starter Values at 400 V, 40 °C standard: 551 A, 315 kW Inside-delta: 954 A, 560 kW 200-460 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5548-6HA14<<

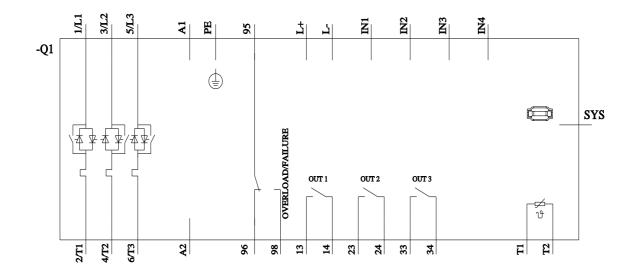
General technical data		
product brand name		SIRIUS
product feature		
 integrated bypass contact system 		Yes
thyristors		Yes
product function		
intrinsic device protection		Yes
 motor overload protection 		Yes
 evaluation of thermistor motor protection 		Yes
external reset		Yes
 adjustable current limitation 		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 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		
• at 40 °C rated value	А	551
• at 50 °C rated value	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
• at 50 °C rated value	А	856
• at 60 °C rated value	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
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	А	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 longeth maximum		
wire length maximum	m	500
wire length maximum number of poles for main current circuit	m	500 3
	m	
number of poles for main current circuit Connections/ Terminals	m	
number of poles for main current circuit Connections/ Terminals type of electrical connection	m	3
number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit		3 busbar connection
number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit		3 busbar connection screw-type terminals
number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts	m	3 busbar connection screw-type terminals 0
number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts		3 busbar connection screw-type terminals 0 3
number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for DIN cable		3 busbar connection screw-type terminals 0
number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for DIN cable lug for main contacts		3 busbar connection screw-type terminals 0 3 1
number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for DIN cable lug for main contacts • finely stranded		3 busbar connection screw-type terminals 0 3 1 50 240 mm ²
number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for DIN cable lug for main contacts • finely stranded • stranded type of connectable conductor cross-sections for auxiliary		3 busbar connection screw-type terminals 0 3 1
number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for DIN cable lug for main contacts • finely stranded • stranded type of connectable conductor cross-sections for auxiliary contacts		3 busbar connection screw-type terminals 0 3 1 50 240 mm ² 70 240 mm ²
number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for DIN cable lug for main contacts • finely stranded • stranded type of connectable conductor cross-sections for auxiliary contacts • solid		3 busbar connection screw-type terminals 0 3 1 50 240 mm ² 70 240 mm ² 2x (0.5 2.5 mm ²)
number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for DIN cable lug for main contacts • finely stranded • stranded type of connectable conductor cross-sections for auxiliary contacts		3 busbar connection screw-type terminals 0 3 1 50 240 mm ² 70 240 mm ²

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 for main contacts 				2/0 500 kcmi	I		
 for auxiliary containing 	acts			2x (20 14)			
 for auxiliary conta processing 	acts finely stranded with	core end		2x (20 16)			
nbient conditions							
nstallation altitude at	height above sea level		m	5 000			
environmental catego							
•	according to IEC 60721			2K2, 2C1, 2S1,	2M2 (max. fall height 0.3	m)	
•	cording to IEC 60721				sional condensation), 1C2		
0 0	0				get inside the devices), 1N		
 during operation 	according 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							
 during operation 			°C	60			
 during storage 			°C	-25 +80			
derating temperature			°C	40			
protection class IP on	the front according to	IEC 60529		IP00			
/CSA ratings							
vielded mechanical pe	erformance [hp] for 3-p	hase AC motor					
• at 200/208 V							
— at inside-de	Ita circuit at 50 °C rated	value	hp	300			
• at 220/230 V							
— at standard	circuit at 50 °C rated val	ue	hp	200			
— at inside-de	Ita circuit at 50 °C rated	value	hp	350			
• at 460/480 V							
— at standard	circuit at 50 °C rated val	ue	hp	400			
— at inside-de	Ita circuit at 50 °C rated	value	hp	750			
	iary contacts according		r	B300 / R300			
••••••••••••••••••••••••••••••••••••••							
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https://support.industry.siemens.com/cs/ww/en/ps/3RW4453-6BC44 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4453-6BC44&lang=en





3/11/2024