SIEMENS

Data sheet

3RW4454-6BC44



SIRIUS soft starter Values at 400 V, 40 °C standard: 615 A, 355 kW Inside-delta: 1065 A, 630 kW 200-460 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5552-6HA14<<

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 	A	615
 at 50 °C rated value 	A	551
 at 60 °C rated value 	A	489
operational current for 3-phase motors at inside-delta circuit		
 at 40 °C rated value 	A	1 065
 at 50 °C rated value 	A	954
 at 60 °C rated value 	A	847
yielded mechanical performance for 3-phase motors ● at 230 V		
 — at standard circuit at 40 °C rated value 	kW	200
 — at inside-delta circuit at 40 °C rated value 	kW	355
• at 400 V		
 — at standard circuit at 40 °C rated value 	kW	355
 — at inside-delta circuit at 40 °C rated value 	kW	630
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

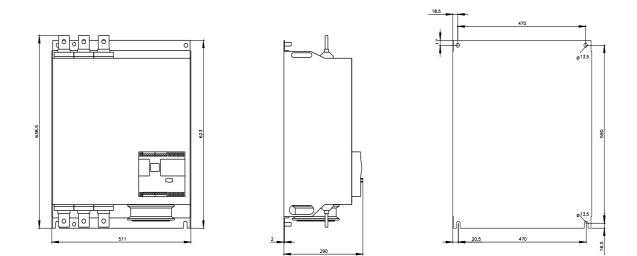
operating voltage at standard circuit rated value	V	200 460
relative negative tolerance of the operating voltage at standard circuit	%	-15
relative positive tolerance of the operating voltage at standard circuit	%	10
operating voltage at inside-delta circuit rated value	V	200 460
relative negative tolerance 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	123
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during	W	186
operation typical		
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		
 finely stranded 		50 240 mm²
• stranded		70 240 mm²
type of connectable conductor cross-sections for auxiliary contacts		
• solid		
		2x (0.5 2.5 mm²)
 finely stranded with core end processing 		2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²)

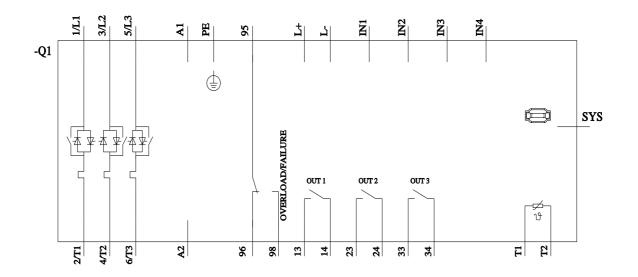
 cables for main contacts for auxiliary contacts for auxiliary contacts finely strand processing 	ded with core end		2/0 500 kcn 2x (20 14) 2x (20 16)	nil	
Ambient conditions					
installation altitude at height above environmental category • during transport according to IEC • during storage according to IEC • during operation according to IEC ambient temperature • during operation • during storage	00721 60721	m °C °C °C	1K6 (only occ: 1S2 (sand mu 3K6 (no forma mist), 3S2 (sa 60 -25 +80	I, 2M2 (max. fall height asional condensation), st not get inside the de tion of ice, no condens nd must not get into the	1C2 (no salt mist), vices), 1M4 ation), 3C3 (no salt
derating temperature protection class IP on the front accc 60529	ording to IEC	Ĵ	40 IP00		
Certificates/ approvals General Product Approval Confirmation Confirmation			(U) u	EAC	EMC ECM
Declaration of Conformity	Test Certifica	ates Ma	arine / Shipping		
CE UK EG-Konf.	<u>Special Test Cr</u> ate		ABS	BUREAU VERITAS	Lloyds Register us
other					
Confirmation					

Confirmation		_	
Communation	Conf	irmat	tion
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yielded mechanical performance [hp] for 3-phase AC motor			
• at 200/208 V			
 — at inside-delta circuit at 50 °C rated value 	hp	350	
• at 220/230 V			
 — at standard circuit at 50 °C rated value 	hp	200	
 — at inside-delta circuit at 50 °C rated value 	hp	400	
● at 460/480 V			
 — at standard circuit at 50 °C rated value 	hp	450	
 — at inside-delta circuit at 50 °C rated value 	hp	850	
contact rating of auxiliary contacts according to UL		B300 / R300	
Further information			
Simulation Tool for Soft Starters (STS)			
https://support.industry.siemens.com/cs/ww/en/view/101494	<u>917</u>		
Information- and Downloadcenter (Catalogs, Brochures	,)		
https://www.siemens.com/ic10			
Industry Mall (Online ordering system)		454 60044	
https://mall.industry.siemens.com/mall/en/en/Catalog/production Cax online generator	ct?mitb=3RVV	<u>454-6BC44</u>	

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4454-6BC44 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4454-6BC44 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4454-6BC44&lang=en





last modified:

1/16/2022 🖸