SIEMENS

Data sheet

3RW4455-6BC34



SIRIUS soft starter Values at 460 V, 50 °C standard: 615 A, 500 hp Inside-delta: 1065 A, 950 hp 200-460 V AC, 115 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5553-6HA14<<

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	693
 at 50 °C rated value 	А	615
 at 60 °C rated value 	А	551
operational current for 3-phase motors at inside-delta circuit		
 at 40 °C rated value 	А	1 200
 at 50 °C rated value 	А	1 065
 at 60 °C rated value 	А	954
yielded mechanical performance for 3-phase motors		
• at 230 V		
 — at standard circuit at 40 °C rated value 	W	200 000
— at inside-delta circuit at 40 °C rated value	W	400 000
• at 400 V		
 — at standard circuit at 40 °C rated value 	W	400 000
 — at inside-delta circuit at 40 °C rated value 	W	710 000
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated	hp	200

	_	
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	A	138
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	220
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	115
at 60 Hz rated value	V	115
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-section auxiliary contacts	s for				
• solid			2x (0.5 2.5 m	m²)	
 finely stranded with core end processing 			2x (0.5 1.5 m	m²)	
type of connectable conductor cross-section cables	s at AWG				
 for main contacts 			2/0 500 kcmil		
 for auxiliary contacts 			2x (20 14)		
 for auxiliary contacts finely stranded with c processing 	core end		2x (20 16)		
mbient conditions					
installation altitude at height above sea level		m	5 000		
environmental category					
 during transport acc. to IEC 60721 			2K2, 2C1, 2S1,	2M2 (max. fall heig	ht 0.3 m)
• during storage acc. to IEC 60721			1S2 (sand must	not get inside the d	,
 during operation acc. to IEC 60721 				on of ice, no conder d must not get into t	nsation), 3C3 (no salt
ambient temperature			11131), 552 (3410	a must not get into t	
during operation	c	°C	60		
during storage		°C	-25 +80		
derating temperature		°C	40		
protection class IP			IP00		
Certificates/ approvals					
General Product Approval					EMC
					LINO
()) A	س		C D C	103	Ŕ
			CNL	CUL	E RCM
	00				nem.
Declaration of Conformity T	est Certificates	Mori	ne / Shipping		
Declaration of Comonnity	est certificates	Iviali	ne / Snipping		
<u>Miscellaneous</u>	Special Test		and and		
	Certificate				Register
EG-Konf.			ARS		LIRS
			7125	VERITAS	210
other					
<u>Confirmation</u>					

UL/CSA ratings		
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	250
- at inside-delta circuit at 50 °C rated value	hp	450
• at 460/480 V		
 — at standard circuit at 50 °C rated value 	hp	500

- at inside-delta circuit at 50 °C rated value

950

B300 / R300

hp

contact rating of auxiliary contacts according to UL

Further information

Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4455-6BC34

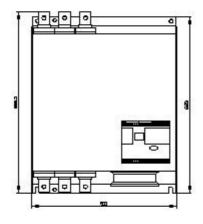
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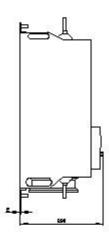
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4455-6BC34

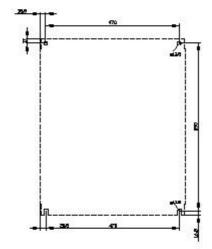
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

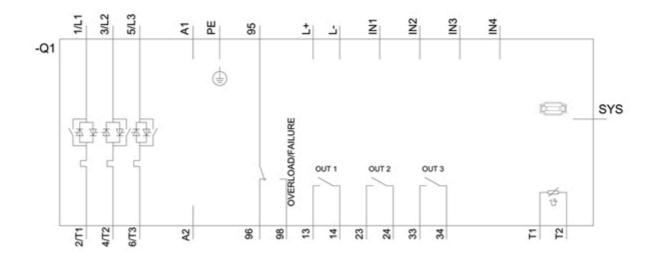
https://support.industry.siemens.com/cs/ww/en/ps/3RW4455-6BC34

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4455-6BC34&lang=en









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