SIEMENS

Data sheet

3RW4454-2BC36



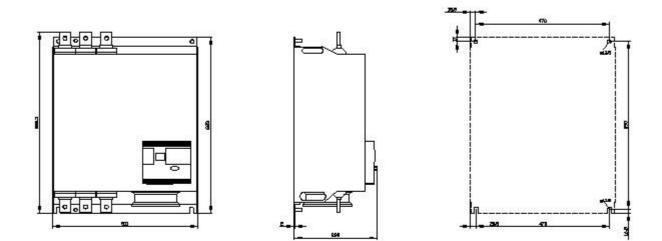
SIRIUS soft starter Values at 575 V, 50 °C standard: 551 A, 600 hp Inside-delta: 954 A, 1050 hp 400-690 V AC, 115 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5552-2HA16<<

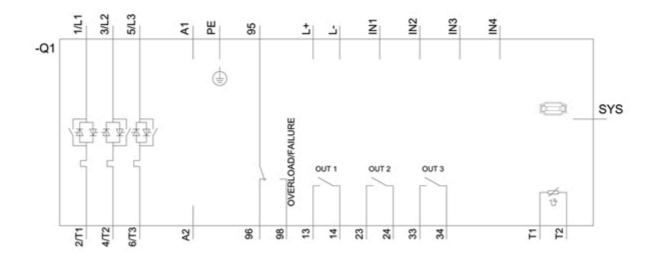
General technical data		
product brand name		SIRIUS
product feature		
 integrated bypass contact system 		Yes
thyristors		Yes
product function		
 intrinsic device protection 		Yes
 motor overload protection 		Yes
 evaluation of thermistor motor protection 		Yes
external reset		Yes
 adjustable current 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 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	615
 at 50 °C rated value 	А	551
at 60 °C rated value	А	489
operational current for 3-phase motors at inside-delta circuit		
• at 40 °C rated value	А	1 065
 at 50 °C rated value 	А	954
• at 60 °C rated value	А	847
yielded mechanical performance for 3-phase motors		
• at 400 V		
 — at standard circuit at 40 °C rated value 	W	355 000
— at inside-delta circuit at 40 °C rated value	W	630 000
• at 500 V		
- at standard circuit at 40 °C rated value	W	400 000
 — at inside-delta circuit at 40 °C rated value 	W	710 000
 at 690 V at standard circuit at 40 °C rated value 	W	630 000
operating frequency rated value	Hz	50 60

	0/	40
relative negative tolerance of the operating frequency	%	-10
relative positive tolerance of the operating frequency	%	10
operating voltage at standard circuit rated value	V	400 690
relative negative tolerance of the operating voltage at standard circuit	%	-15
relative positive tolerance of the operating voltage atstandard 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	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	%	-10
voltage frequency	_	
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		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		$50 - 240 \text{ mm}^2$
 finely stranded 		50 240 mm²

			70 240 mm ²	2	
 stranded 			70240 11111		
	nductor cross-sections for				
auxiliary contacts					
 solid 			2x (0.25 1.5	, ,	
	h core end processing		2x (0.25 1.5	5 mm²)	
type of connectable co cables	nductor cross-sections at AWG				
 for main contacts 			2/0 500 kcn	nil	
 for auxiliary contact 	rts		2x (24 16)		
mbient conditions					
installation altitude at h	neight above sea level	m	5 000		
environmental category	•				
 during transport ac 	-		2K2 2C1 2S	1 2M2 (max_fall_heig	ht 0.3 m)
during storage acc			2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) 1K6 (only occasional condensation), 1C2 (no salt mist),		
			1S2 (sand must not get inside the devices), 1M4		
 during operation a 	cc. to IEC 60721				nsation), 3C3 (no salt
ambiant tomporaturo		_	mist), 3S2 (sa	nd must not get into t	the devices), 3M6
ambient temperature		°C	60		
 during operation 		℃ ℃	60		
during storage		 	-25 +80		
derating temperature	the front acc. to IEC 60529	C	40 IP00		
protection class IP on t ertificates/ approvals			IPUU		
		_			
General Product Appro	oval			EMC	Declaration of Conformity
(SP)			EHL	RCM	EG-Konf.
CSA Test Certificates	Aarine / Shipping)	EHL	CCM other	EG-Konf.
	Marine / Shipping)	EHL		EG-Konf.
Test Certificates M Special Test Certific- ate	Aarine / Shipping		Lloveds	other Confirmation	CE EG-Konf.
Special Test Certific-			Llovets Kegister		EG-Konf.
Special Test Certific-	Marine / Shipping	U S	Lloved's Register Lus		CCE EG-Konf.
Special Test Certific-		U S	Liovers Register urs		C C C
Special Test Certific- ate		U S	Llovd's Register LRS		EG-Konf.
Special Test Certific- ate L/CSA ratings yielded mechanical per		u S	EHL Register urs		EG-Konf.
Special Test Certific- ate L/CSA ratings yielded mechanical per motor • at 460/480 V		U S hp	EHIC Lis		EG-Kont.
Special Test Certific- ate L/CSA ratings yielded mechanical per motor • at 460/480 V — at standard ci	formance [hp] for 3-phase AC	S			EG-Konf.
Special Test Certific- ate L/CSA ratings yielded mechanical per motor • at 460/480 V — at standard ci — at inside-delta • at 575/600 V	formance [hp] for 3-phase AC	hp	450		EG-Konf.
Special Test Certific- ate L/CSA ratings yielded mechanical per motor • at 460/480 V — at standard ci — at inside-delta • at 575/600 V — at standard ci	Formance [hp] for 3-phase AC	hp	450		EG-Konf.
Special Test Certific- ate L/CSA ratings yielded mechanical per motor • at 460/480 V — at standard ci — at inside-delta • at 575/600 V — at standard ci	formance [hp] for 3-phase AC	hp hp	450 850		EG-Konf.
Special Test Certific- ate L/CSA ratings yielded mechanical per motor • at 460/480 V — at standard ci — at inside-delta • at 575/600 V — at standard ci — at inside-delta contact rating of auxilia	Formance [hp] for 3-phase AC	hp hp hp	450 850 600		CCC EG-Konf.
Special Test Certific- ate L/CSA ratings yielded mechanical per motor • at 460/480 V — at standard ci — at inside-delta • at 575/600 V — at standard ci — at inside-delta	formance [hp] for 3-phase AC	hp hp hp	450 850 600 1 050		EG-Konf.
Special Test Certific- ate L/CSA ratings yielded mechanical per motor • at 460/480 V — at standard ci — at inside-delta • at 575/600 V — at standard ci — at inside-delta contact rating of auxilia urther information	formance [hp] for 3-phase AC rcuit at 50 °C rated value a circuit at 50 °C rated value rcuit at 50 °C rated value a circuit at 50 °C rated value	hp hp hp hp	450 850 600 1 050		C C C C Konf.
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Special Test Certific- ate L/CSA ratings yielded mechanical per motor • at 460/480 V — at standard ci — at inside-delta • at 575/600 V — at standard ci — at inside-delta contact rating of auxilia urther information Simulation Tool for Sof https://support.industry.s Information- and Down https://www.siemens.com	formance [hp] for 3-phase AC rcuit at 50 °C rated value a circuit at 50 °C rated value rcuit at 50 °C rated value a circuit at 50 °C rated value ft Starters (STS) iemens.com/cs/ww/en/view/101494 loadcenter (Catalogs, Brochures n/ic10	hp hp hp hp hp hp	450 850 600 1 050		C C C Kont.
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Special Test Certific- ate L/CSA ratings yielded mechanical per motor • at 460/480 V — at standard ci — at inside-delta • at 575/600 V — at standard ci — at inside-delta contact rating of auxilia urther information Simulation Tool for Sof https://support.industry.si Information- and Down https://www.siemens.cor Industry Mall (Online of https://mall.industry.siem Cax online generator	Formance [hp] for 3-phase AC rcuit at 50 °C rated value a circuit at 50 °C rated value a circuit at 50 °C rated value rcuit at 50 °C rated value a circuit at 50 °C rated value a circui	hp hp hp hp hp hp hp ct?mlfb=3RW	450 850 600 1 050 B300 / R300		EG-Konf.
Special Test Certific- ate L/CSA ratings yielded mechanical per motor • at 460/480 V — at standard ci — at inside-delta • at 575/600 V — at standard ci — at inside-delta contact rating of auxilia urther information Simulation Tool for Sof https://support.industry.si Information- and Down https://www.siemens.cor Industry Mall (Online of https://mall.industry.siem Cax online generator http://support.automatior	formance [hp] for 3-phase AC rcuit at 50 °C rated value a circuit at 50 °C rated value ircuit at 50 °C rated value a circuit at 50 °C rated value a circu	hp hp hp hp hp hp hp hp hp hp hp hp hp h	450 850 600 1 050 B300 / R300		EG-Konf.

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4454-2BC36&lang=en





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