SIEMENS

Data sheet

3RW4434-2BC34



SIRIUS soft starter Values at 460 V, 50 °C standard: 100 A, 75 hp Inside-delta: 173 A, 125 hp 200-460 V AC, 115 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5534-2HA14<<

General technical data		
product brand name		SIRIUS
product feature		
integrated bypass contact system		Yes
thyristors		Yes
product function		
intrinsic device protection		Yes
manual device protection		Yes
evaluation of thermistor motor protection		Yes
external reset		Yes
adjustable current limitation		Yes
inside-delta circuit		Yes
		Yes
product component motor brake outputinsulation voltage rated value	V	690
degree of pollution	v	3, acc. to IEC 60947-4-2
reference code according to EN 61346-2		Q
reference code according to DIN 40719 extended according		G
to IEC 204-2 according to IEC 750		3
Power Electronics		
product designation		Soft starter
operational current		
• at 40 °C rated value	А	113
 at 50 °C rated value 	А	100
• at 60 °C rated value	А	88
operational current for 3-phase motors at inside-delta circuit		
• at 40 °C rated value	А	196
• at 50 °C rated value	А	173
• at 60 °C rated value	А	152
yielded mechanical performance for 3-phase motors		
• at 230 V		
- at standard circuit at 40 °C rated value	kW	30
— at inside-delta circuit at 40 °C rated value	kW	55
• at 400 V		
— at standard circuit at 40 °C rated value	kW	55
- at inside-delta circuit at 40 °C rated value	kW	110
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	30
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	22		
continuous operating current [% of le] at 40 °C	%	115		
power loss [W] at operational current at 40 °C during operation typical	W	64		
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	170		
height	mm	200		
depth	mm	270		
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		
		100		
 at the side 	mm	5		
at the sidedownwards				
	mm	5		
downwards wire length maximum	mm mm	5 75		
downwards wire length maximum number of poles for main current circuit	mm mm	5 75 500		
• downwards wire length maximum number of poles for main current circuit Connections/ Terminals	mm mm	5 75 500		
• downwards wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection	mm mm	5 75 500 3		
downwards wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection	mm mm	5 75 500 3 busbar connection		
• downwards wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit	mm mm	5 75 500 3 busbar connection spring-loaded terminals		
• downwards wire length maximum 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	mm mm	5 75 500 3 busbar connection spring-loaded terminals 0		
• downwards wire length maximum 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	mm mm	5 75 500 3 busbar connection spring-loaded terminals 0 3		
• downwards wire length maximum 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	mm mm	5 75 500 3 busbar connection spring-loaded terminals 0		
• downwards wire length maximum 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 main contacts for box terminal using the front clamping point	mm mm	5 75 500 3 busbar connection spring-loaded terminals 0 3 1		
• downwards wire length maximum 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 main contacts for box terminal using the front clamping point • finely stranded with core end processing	mm mm	5 75 500 3 busbar connection spring-loaded terminals 0 3 1 1 16 70 mm ²		
• downwards wire length maximum 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 main contacts for box terminal using the front clamping point	mm mm	5 75 500 3 busbar connection spring-loaded terminals 0 3 1		
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• downwards wire length maximum 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 main contacts for box terminal using the front clamping point • finely stranded with core end processing • finely stranded without core end processing	mm mm	5 75 500 3 busbar connection spring-loaded terminals 0 3 1 1 16 70 mm ² 16 70 mm ²		
 downwards wire length maximum 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 CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point finely stranded with core end processing stranded type of connectable conductor cross-sections for main 	mm mm	5 75 500 3 busbar connection spring-loaded terminals 0 3 1 1 16 70 mm ² 16 70 mm ²		

• strandod		16 70 mm²		
stranded type of connectable conductor cross-sections for main		10 / U IIIII*		
contacts for box terminal using both clamping points				
 finely stranded with core end processing 		max. 1x 50 mm	², 1x 70 mm²	
 finely stranded without core end processing 		max. 1x 50 mm		
• stranded		max. 2x 70 mm		
type of connectable conductor cross-sections for AWG cables for main contacts for box terminal				
 using the back clamping point 		6 2/0		
 using the front clamping point 		6 2/0		
 using both clamping points 		max. 2x 1/0		
type of connectable conductor cross-sections for DIN ca lug for main contacts	ble			
 finely stranded 		16 95 mm²		
• stranded		25 120 mm²		
type of connectable conductor cross-sections for auxilia contacts	iry			
• solid		2x (0.25 1.5 r	mm²)	
 finely stranded with core end processing 		2x (0.25 1.5 r	mm²)	
type of connectable conductor cross-sections for AWG cables				
for main contacts		4 250 kcmil		
for main contacts for auxiliary contacts				
for auxiliary contacts Ambient conditions		2x (24 16)		
	_	5.000	_	_
installation altitude at height above sea level	m	5 000		
environmental category			0.10 (``
during transport according to IEC 60721			2M2 (max. fall height 0.3	
 during storage according to IEC 60721 		1K6 (only occas (sand must not	sional condensation), 1C2 get inside the devices), 1N	(no salt mist), 1S2
during operation according to IEC 60721		3K6 (no formati	on of ice, no condensatior t not get into the devices),	n), 3C3 (no salt mist),
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; IP20 with	box terminal/cover	
touch protection on the front according to IEC 60529		finger-safe, for terminal/cover	vertical contact from the fr	ont with box
Certificates/ approvals				
General Product Approval				EMC
	rmation		EHC	RCM
Declaration of Conformity Test Cer	tificates		Marine / Shipping	
UN (C	<u>est Certific-</u> ate	Type Test Certific- ates/Test Report		
CA EG-Konf.			ABS	BUREAU VERITAS
Marine / Shipping		other		
	IV-GL	<u>Confirmation</u>		
UL/CSA ratings yielded mechanical performance [hp] for 3-phase AC mo	tor			
Justice incomments in benominance [ub] to a-bugge We mo				

contact rating of auxiliary contacts according to UL		B300 / R300
— at inside-delta circuit at 50 °C rated value	hp	125
 — at standard circuit at 50 °C rated value 	hp	75
● at 460/480 V		
— at inside-delta circuit at 50 °C rated value	hp	60
 — at standard circuit at 50 °C rated value 	hp	30
• at 220/230 V		
- at inside-delta circuit at 50 °C rated value	hp	50
• at 200/208 V		
(000/000)/		

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Simulation Tool for Soft Starters (STS)

https://support.industry.siemens.com/cs/ww/en/view/101494917

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RW4434-2BC34

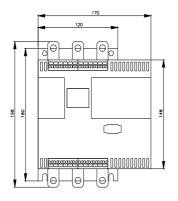
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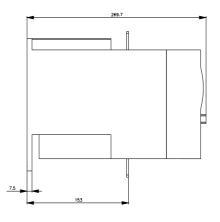
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4434-2BC34

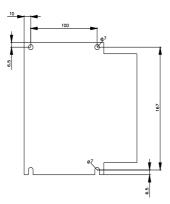
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

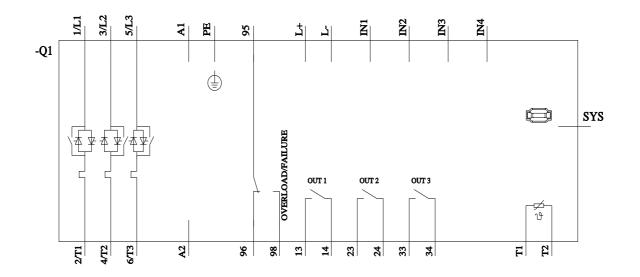
https://support.industry.siemens.com/cs/ww/en/ps/3RW4434-2BC34

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4434-2BC34&lang=en









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