SIEMENS

Data sheet

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<<

3RW4434-2BC34

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	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 	W	30 000		
— at inside-delta circuit at 40 °C rated value	W	55 000		
• at 400 V				
- at standard circuit at 40 °C rated value	W	55 000		
- at inside-delta circuit at 40 °C rated value	W	110 000		
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	A	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
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 main contacts for box terminal using the front		

	10 7 0 m2	
	16 70 mm ²	
	16 70 mm²	
	16 70 mm²	
	16 70 mm²	
	max. 1x 50 mm ² , 1x 70 mm ²	
	max. 1x 50 mm ² , 1x 70 mm ²	
_	max. 2x 70 mm ²	
	6 2/0	
	6 2/0	
_	max. 2x 1/0	
	16 95 mm²	
	25 120 mm²	
	2x (0.25 1.5 mm ²)	
	2x (0.25 1.5 mm²)	
	4 250 kcmil	
	2x (24 16)	
m	5 000	
	2K2, 2C1, 2S1, 2M2 (max. fall he	ight 0.3 m)
	1K6 (only occasional condensation	n), 1C2 (no salt mist),
		,
°C	60	
°C	-25 +80	
°C	40	
	IP00; IP20 with box terminal/cove	r
	finger-safe, for vertical contact fro	m the front with box
	finger-safe, for vertical contact fro terminal/cover	m the front with box
	0	m the front with box
	⊃° ⊃°	16 70 mm² 16 70 mm² max. 1x 50 mm², 1x 70 mm² max. 1x 50 mm², 1x 70 mm² max. 1x 50 mm², 1x 70 mm² max. 2x 70 mm² 6 2/0 6 2/0 max. 2x 1/0 16 95 mm² 25 120 mm² 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²) 2x (24 16) m 5 000 2K2, 2C1, 2S1, 2M2 (max. fall he 1K6 (only occasional condensation 1S2 (sand must not get inside the 3K6 (no formation of ice, no cond mist), 3S2 (sand must not get into °C 60 °C 60 °C 60

Special Test Certific-	Type Test Certific-
ate	<u>ates/Test Report</u>









Marine / Shipping



Confirmation

other

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

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=3RW4434-2BC34

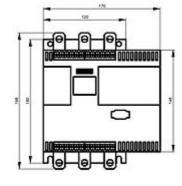
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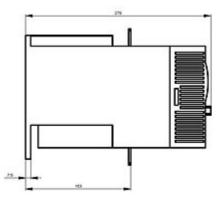
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4434-2BC34

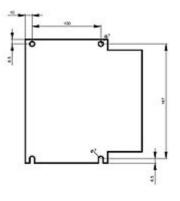
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

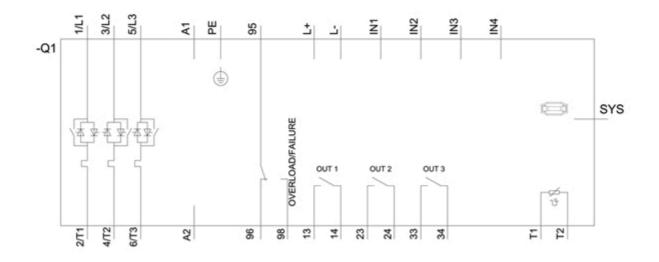
https://support.industry.siemens.com/cs/ww/en/ps/3RW4434-2BC34

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









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