## SIEMENS

## Data sheet

## 3RW4434-6BC34



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 Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5534-6HA14<<

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	- V	3. acc. to IEC 60947-4-2
reference code acc. to DIN EN 61346-2		Q
	-	G
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		
<ul> <li>at 40 °C rated value</li> </ul>	А	113
<ul> <li>at 50 °C rated value</li> </ul>	А	100
<ul> <li>at 60 °C rated value</li> </ul>	А	88
operational current for 3-phase motors at inside-delta circuit		
<ul> <li>at 40 °C rated value</li> </ul>	А	196
<ul> <li>at 50 °C rated value</li> </ul>	А	173
<ul> <li>at 60 °C rated value</li> </ul>	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		
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	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		
<ul> <li>for main current circuit</li> </ul>		busbar connection
<ul> <li>for auxiliary and control circuit</li> </ul>		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 main contacts for box terminal using the front		

	16 70 mm <sup>2</sup>		
	16 70 mm² 16 70 mm²		
	16 70 mm²		
	16 70 mm²		
	16 70 mm²		
_	16 70 mm²		
	max. 1x 50 mm², 1x 70 mm²		
	max. 1x 50 mm², 1x 70 mm²		
	max. 2x 70 mm <sup>2</sup>		
	6 2/0		
	6 2/0		
-	max. 2x 1/0		
	16 95 mm <sup>2</sup>		
_	25 120 mm²		
	$2\times (0.5 - 2.5 \text{ mm}^2)$		
	$2x (0.5 \dots 2.5 \text{ mm}^2)$		
-	2x (0.5 1.5 mm²)		
	4 050 harril		
	4 250 kcmil		
	2x (20 14)		
	2x (20 16)		
. m	5 000		
	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		
	3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6		
°C	60		
°C	-25 +80		
	40		
°C			
°C	IP00; IP20 with box terminal/cover		
°C			
°C	IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box		
°C	IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box terminal/cover EMC Declaration of		
°C	IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box terminal/cover		
°C	IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box terminal/cover EMC Declaration of		
°C	IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box terminal/cover  EMC Declaration of Conformity  CEE CEE CEE CEE CEE CEE CEE CEE CEE C		

Conformity					
<u>Miscellaneous</u>	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	ABS	BUREAU VERITAS	Lloyds Register urs
Marine / Shipping		other			
PRS	DNV-GL DNV-GL	Confirmation			

hp	50
hp	30
hp	60
hp	75
hp	125
	B300 / R300
	hp hp hp

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=3RW4434-6BC34

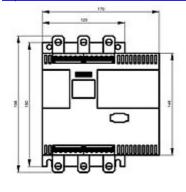
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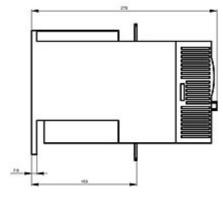
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4434-6BC34

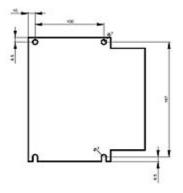
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

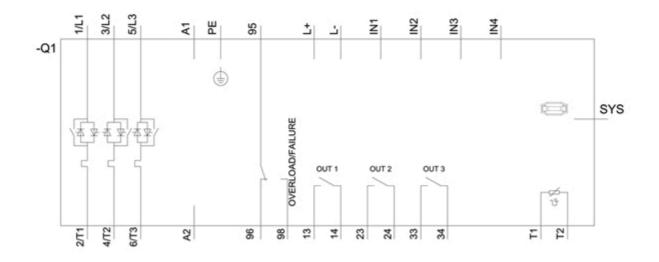
https://support.industry.siemens.com/cs/ww/en/ps/3RW4434-6BC34

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4434-6BC34&lang=en









last modified:

12/15/2020 🖸