SIEMENS

Data sheet

3RW4427-3BC34



SIRIUS soft starter Values at 460 V, 50 °C standard: 82 A, 60 hp Inside-delta: 142 A, 100 hp 200-460 V AC, 115 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5527-3HA14<<

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	93
 at 50 °C rated value 	А	82
• at 60 °C rated value	А	72
operational current for 3-phase motors at inside-delta circuit		
 at 40 °C rated value 	А	161
 at 50 °C rated value 	А	142
• at 60 °C rated value	А	125
yielded mechanical performance for 3-phase motors		
• at 230 V		
 — at standard circuit at 40 °C rated value 	W	22 000
— at inside-delta circuit at 40 °C rated value	W	45 000
• at 400 V		
— at standard circuit at 40 °C rated value	W	45 000
- at inside-delta circuit at 40 °C rated value	W	90 000
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	25

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	18
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	55
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	192
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 		box terminal
 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		

_		
	2.5 16 mm²	
	2.5 35 mm²	
	4 50 mm²	
	4 70 mm²	
	2,5 16 mm²	
	2.5 50 mm²	
	10 50 mm²	
	10 70 mm²	
	$2x (2.5 - 16 \text{ mm}^2)$	
	· · · · · ·	
;	28 (4 30 mm)	
	10 2/0	
	2X (10 1/0)	
	2x (0.25 1.5 mm²)	
ì		
	2x (24 16)	
m	5 000	
	2K2, 2C1, 2S1, 2M2 (max. fall he	eight 0.3 m)
	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4	
°C	60	
°C	-25 +80	
°C	40	
	IP20	
	finger-safe, for vertical contact fr	om the front
		Declaration of
	EMC	Conformity
	_	
\	гпг 🔊	()
/	1H1 (型)	
	RCM	EG-Konf.
nipping		
	m °C °C	2.535 mm² 450 mm² 470 mm² 2,550 mm² 1050 mm² 1050 mm² 1070 mm² 2x (2.516 mm²) 2x (2.535 mm²) 2x (2.535 mm²) 2x (2.535 mm²) 2x (435 mm²) 2x (450 mm²) 2x (1010) 102/0 2x (1010) 2x (0.251.5 mm²) 2x (0.251.5 mm²) 2x (2.416) m 5 000 2K2, 2C1, 2S1, 2M2 (max. fall hr 1K6 (only occasional condensati 1S2 (sand must not get inside th 3K6 (no formation of ice, no com mist), 3S2 (sand must not get inside th 3K6 (no formation of ice, no com mist), 3S2 (sand must not get inside th 3K6 (no formation of ice, no com mist), 3S2 (sand must not get inside th 3K6 (more complex), asset (sand must not get inside th 3K6 (more complex), asset (sand must not get inside th 3K6 (more complex), asset (sand must not get inside th 3K6 (more complex), asset (sand must not get inside th 3K6 (more complex), asset (sand must not get inside th 3K6 (more complex), asset (sand must not get inside th 3K6 (more complex), asset (sand must not get inside th 3K6 (more complex), asset (sand must not get inside th 3K6 (more complex), asset (sand must not get inside th 3K6 (more complex), asset (sand must not get inside th 3K6 (more complex), asset (sand must not get inside th 3K6 (more complex), asset (sand must not get inside th 3K6 (more complex), asset (sand must not get inside th 3K

Type Test Certific-	Sp
ates/Test Report	

Special Test Certificate









Marine / Shipping



Confirmation

other

yielded mechanical performance [hp] for 3-phase AC		
motor		
• at 200/208 V		
 — at inside-delta circuit at 50 °C rated value 	hp	40
• at 220/230 V		
 — at standard circuit at 50 °C rated value 	hp	25
- at inside-delta circuit at 50 °C rated value	hp	50
• at 460/480 V		
 — at standard circuit at 50 °C rated value 	hp	60
- at inside-delta circuit at 50 °C rated value	hp	100
contact rating of auxiliary contacts according to UL		B300 / R300

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=3RW4427-3BC34

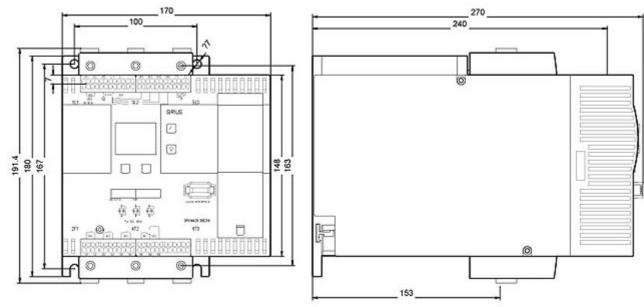
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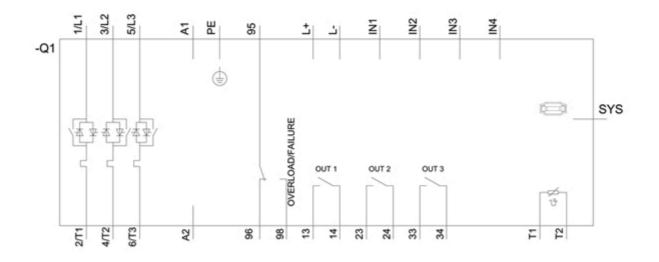
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4427-3BC34

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW4427-3BC34

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4427-3BC34&lang=en





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