SIEMENS

Data sheet

3RW4434-6BC35



SIRIUS soft starter Values at 575 V, 50 °C standard: 100 A, 75 hp Inside-delta: 173 A, 150 hp 400-600 V AC, 115 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5534-6HA16<<

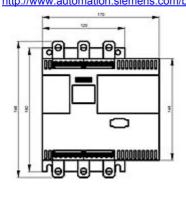
General technical data		
product brand name		SIRIUS
product feature	-	
 integrated bypass contact system 		Yes
thyristors		Yes
product function	-	
 intrinsic device protection 		Yes
 motor overload protection 		Yes
 evaluation of thermistor motor protection 		Yes
external reset		Yes
 adjustable current 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 	A	113
 at 50 °C rated value 	A	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 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
• at 500 V		
- at standard circuit at 40 °C rated value	W	75 000
- at inside-delta circuit at 40 °C rated value	W	132 000
operating frequency rated value	Hz	50 60

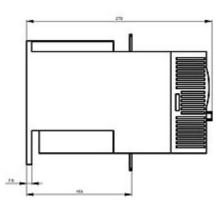
	-	
relative positive tolerance of the operating frequency	%	10
operating voltage at standard circuit rated value	V	400 600
relative negative tolerance of the operating voltage at standard circuit	%	-15
relative positive tolerance of the operating voltage at standard circuit	%	10
operating voltage at inside-delta circuit rated value	V	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	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 		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 clamping point		
 finely stranded with core end processing 		16 70 mm²

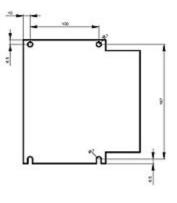
 finely stranded without core end processing 		16 70 mm²	
stranded		$16 70 \text{ mm}^2$	
type of connectable conductor cross-sections for main contacts for box terminal using the back			
clamping point			
 finely stranded with core end processing 		16 70 mm²	
 finely stranded without core end processing 		16 70 mm²	
stranded		16 70 mm²	
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points			
 finely stranded with core end processing 		max. 1x 50 mm ² , 1x 70 mm ²	
 finely stranded without core end processing 		max. 1x 50 mm ² , 1x 70 mm ²	
stranded		max. 2x 70 mm ²	
type of connectable conductor cross-sections at 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 cable lug for main contacts			
 finely stranded 		16 95 mm²	
stranded		25 120 mm²	
type of connectable conductor cross-sections for			
auxiliary contacts		$2\times (0.5 - 0.5 \text{ mm}^2)$	
 solid finally stranded with core and processing 		$2x (0.5 \dots 2.5 \text{ mm}^2)$	
• finely stranded with core end processing type of connectable conductor cross-sections at AWG		2x (0.5 1.5 mm²)	
cables			
for main contacts		4 250 kcmil	
 for auxiliary contacts 		2x (20 14)	
 for auxiliary contacts finely stranded with core end 		2x (20 16)	
processing			
mbient conditions			
installation altitude at height above sea level	m	5 000	
environmental category			
 during transport acc. to IEC 60721 		2K2, 2C1, 2S1, 2M2 (max. fall hei	ght 0.3 m)
• during storage acc. to IEC 60721		1K6 (only occasional condensatio 1S2 (sand must not get inside the	devices), 1M4
during operation acc. to IEC 60721		3K6 (no formation of ice, no conde mist), 3S2 (sand must not get into	
ambient temperature	°C	60	
during operation	⊃° ⊃°	60 -25 +80	
during storage	0°		
derating temperature	۰C	40	-
protection class IP on the front acc. to IEC 60529		IP00; IP20 with box terminal/cover	
touch protection on the front acc. to IEC 60529		finger-safe, for vertical contact from terminal/cover	
ertificates/ approvals			
General Product Approval		EMC	Declaration of
			Conformity
		0	
(SN) (m) (m)			((
		RCM	EG-Konf.
CSA CCC UL			
CSA CCC UL			
CSA CCC UL			
Test Certificates Marine / Ship	ping		

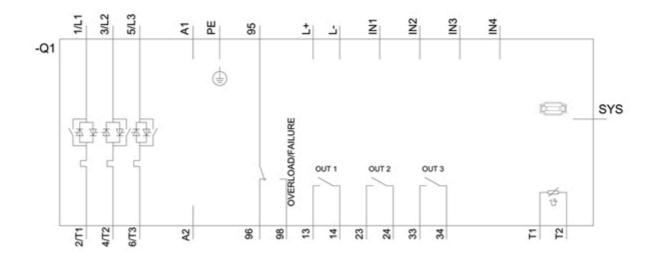
<u>Type Test Certific-</u> <u>ates/Test Report</u>	Special Test Certific- ate	ABS	BUREAU	Lloyds Register uis	PRS
Marine / Shipping	other				
DNV-GL	<u>Confirmation</u>				

UL/CSA ratings			
yielded mechanical performance [hp] for 3-phase AC motor			
• 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	
• at 575/600 V			
— at standard circuit at 50 °C rated value	hp	75	
- at inside-delta circuit at 50 °C rated value	hp	150	
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,)			
Industry Mall (Online ordering system)			
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4434-6BC35			
Cax online generator			
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4434-6BC35			
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW4434-6BC35			
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)			
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4434-6BC35⟨=en			









last modified:

12/15/2020 🖸