SIEMENS

Data sheet 3RW4434-6BC36



SIRIUS soft starter Values at 575 V, 50 °C standard: 100 A, 75 hp Inside-delta: 173 A, 150 hp 400-690 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 	Α	113
 at 50 °C rated value 	Α	100
at 60 °C rated value	Α	88
operational current for 3-phase motors at inside-delta circuit		
 at 40 °C rated value 	Α	196
 at 50 °C rated value 	Α	173
at 60 °C rated value	Α	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
at 690 V at standard circuit at 40 °C rated value	W	110 000
	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	400 690	
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	Α	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			

General Product Approval		EMC	Declaration of Conformity	
Certificates/ approvals		Communication of the Communica		
touch protection on the front acc. to IEC 60529		finger-safe, for vertical contact from the front with box terminal/cover		
protection class IP on the front acc. to IEC 60529		IP00; IP20 with box terminal/cover		
derating temperature	°C	40	40	
during storage	°C	-25 +80		
during operation	°C	60		
ambient temperature		mist), 3S2 (sand must not get into	the devices), 3M6	
during operation acc. to IEC 60721		1S2 (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no sal		
during transport acc. to IEC 60721 during storage acc. to IEC 60721		1K6 (only occasional condensation), 1C2 (no salt mist),		
during transport acc. to IEC 60721		2K2, 2C1, 2S1, 2M2 (max. fall he	ight 0.3 m)	
environmental category				
installation altitude at height above sea level	m	5 000		
mbient conditions				
 for auxiliary contacts finely stranded with core end processing 		ZX (ZU 1U)		
for auxiliary contacts for auxiliary contacts finely stranded with core and		2x (20 14) 2x (20 16)		
• for main contacts		4 250 kcmil		
cables		4 250 komil		
type of connectable conductor cross-sections at AWG				
 finely stranded with core end processing 		2x (0.5 1.5 mm²)		
• solid		2x (0.5 2.5 mm²)		
auxiliary contacts				
type of connectable conductor cross-sections for		20 120 11111		
stranded stranded		25 120 mm ²		
cable lug for main contacts • finely stranded		16 95 mm²		
type of connectable conductor cross-sections for DIN				
using both clamping points		max. 2x 1/0		
using the front clamping point		6 2/0		
using the back clamping point		6 2/0		
type of connectable conductor cross-sections at AWG cables for main contacts for box terminal				
stranded		max. 2x 70 mm²		
 finely stranded without core end processing 		max. 1x 50 mm², 1x 70 mm²		
finely stranded with core end processing		max. 1x 50 mm², 1x 70 mm²		
main contacts for box terminal using both clamping points				
stranded type of connectable conductor cross-sections for		16 70 mm-		
finely stranded without core end processing		16 70 mm²		
finely stranded with core end processing finely stranded without core and processing		16 70 mm² 16 70 mm²		
main contacts for box terminal using the back clamping point		40 70 mm²		
type of connectable conductor cross-sections for				
• stranded		16 70 mm²		
 finely stranded without core end processing 		16 70 mm²		
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Test Certificates

Marine / Shipping









Marine / Shipping

other



Confirmation

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,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4434-6BC36

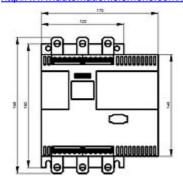
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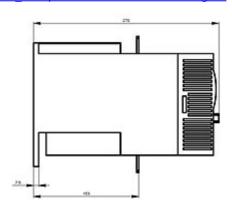
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4434-6BC36

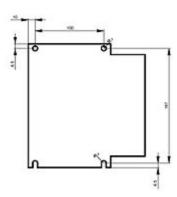
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

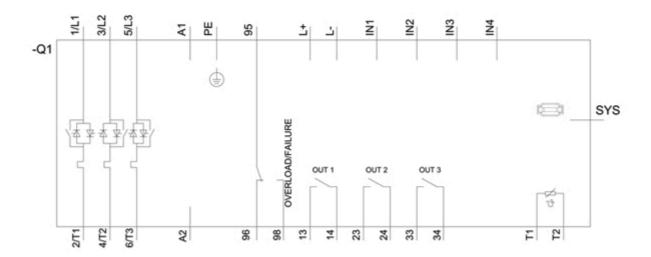
https://support.industry.siemens.com/cs/ww/en/ps/3RW4434-6BC36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RW4434-6BC36&lang=en









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