SIEMENS

Data sheet

SIRIUS soft starter Values at 690 V, 40 °C standard: 113 A, 110 kW Inside-delta: only up to 600 V 400-690 V AC, 230 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5534-2HA16<<

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 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
operating frequency rated value	Hz	50 60

3RW4434-2BC46

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number of CO contacts for auxiliary contacts 1 type of connectable conductor cross-sections for 1			
type of connectable conductor cross-sections for			
main contacts for box terminal using the front clamping point	type of connectable conductor cross-sections for main contacts for box terminal using the front		

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type of connectable conductor cross-sections for main contacts for box terminal using the back camping point 16 70 mm ² • Inely stranded with core end processing • stranded 16 70 mm ² • Inely stranded with core end processing • stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • stranded max. 1x 50 mm ² , 1x 70 mm ² • Inely stranded without core end processing • stranded max. 1x 50 mm ² , 1x 70 mm ² • using the back clamping point • using the toxt clamping point • stranded 6 2/0 6 2/0 6 2/0 • Connectable conductor cross-sections for DIN cable lug for main contacts • solid • for auxiliary contacts 7 (2 1.5 mm ²) • 2x (0 .2 1.5 mm ²) • 2x (2 .2 1.5 mm ²) • 1x (2 (and must not get inside the devices), 1MM • 3x (6 (not provision on class to the C 60721 • 1x (2 (and must not get inside the devices), 1MM • 3x (6 (not provis	 finely stranded without core end processing 		16 70 mm²	
main contacts for box terminal using the back clamping pointIf all all all all all all all all all al	stranded		16 70 mm²	
• finely stranded without core end processing 16 70 mm ² • stranded 16 70 mm ² 16 70 mm ² 16 70 mm ² • finely stranded with core end processing max. 1x 50 mm ² , 1x 70 mm ² • finely stranded with core end processing max. 1x 50 mm ² , 1x 70 mm ² • stranded max. 1x 50 mm ² , 1x 70 mm ² • stranded max. 1x 50 mm ² , 1x 70 mm ² • stranded with core end processing max. 1x 50 mm ² , 1x 70 mm ² • stranded max. 1x 50 mm ² , 1x 70 mm ² • using the back clamping point 6 2/0 • using the back clamping point 6 2/0 • using the front clamping points max. 2 x 1/0 • type of connectable conductor cross-sections for DIN max. 2 x 1/0 cable 16 95 mm ² • finely stranded 25 120 mm ² type of connectable conductor cross-sections at AWG 25 1.5 mm ²) • finely stranded with core end processing 4 250 kcmil type of connectable conductor cross-sections at AWG 2 x (0.25 1.5 mm ²) • for axiliary contacts 2 x (24 16) • mathematical theight above sea level m 5 000 • for axiliary	main contacts for box terminal using the back			
• straded 16 70 mm ² type of connectable conductor cross-sections for main contacts for box terminal using both clamping points max. 1x 50 mm ² , 1x 70 mm ² • 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 • using the back clamping point 6 2/0 • using the tark clamping point 6 2/0 • using the tark clamping point 6 2/0 • using the tark clamping point 6 2/0 • stranded 25 120 mm ² type of connectable conductor cross-sections for DIN cable lug for main contacts 16 95 mm ² • stranded 25 120 mm ² type of connectable conductor cross-sections at AWG cables 2x (0.25 1.5 mm ²) • for main contacts 2 x (24 16) • for auxiliary contacts 2 x (24 16) • for auxiliary contacts 2 x (24 16) • for auxiliary contacts 2 x (24 16)	 finely stranded with core end processing 		16 70 mm²	
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points max. 1x 50 mm², 1x 70 mm² max. 2x 70 mm² • inely stranded without core end processing • istranded max. 1x 50 mm², 1x 70 mm² max. 2x 70 mm² • using the back clamping point • using the front clamping point 6 2/0 • forely stranded 25 120 mm² • forely stranded 25 120 mm² • trauxiliary contacts 2x (0.25 1.5 mm²) • stranded 2x (0.25 1.5 mm²) • fore usiliary contacts 2x (24 16) • form and contacts 9 fore usiliary contacts • for mail c	 finely stranded without core end processing 		16 70 mm²	
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• finely stranded without core end processing • strandedmax. 1x 50 mm², 1x 70 mm² max. 2x 70 mm²type of connectable conductor cross-sections at AWG cables for main contacts for box terminal6• using the back clamping point6• using the font clamping point6• using the connectable conductor cross-sections for DIN cable lug for main contacts• finely stranded16• finely stranded16• stranded25• finely stranded25• finely stranded2x (0.25• stranded2x (0.25• solid2x (0.25• for nain contacts2x (2.25• for auxiliary contacts2x (24• for auxiliary contacts2x (24• for auxiliary contacts2x (24• for auxiliary contacts2x (22• for auxiliary contacts300• during storage acc. to IEC 60721M• during operation acc. to IEC 607211K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4• during operation acc. to IEC 6072160• during storage"C• during storage"C• during operation acc. to IEC 6072160• during storage </td <td>main contacts for box terminal using both clamping</td> <td></td> <td></td> <td></td>	main contacts for box terminal using both clamping			
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ambient temperaturemist), 3S2 (sand must not get into the devices), 3M6• during operation°C• during storage°C• during storage°C• carating temperature°C• carating				· · · · · ·
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• during storage °C -25 +80 derating temperature °C 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 the front with box terminal/cover				
derating temperature °C 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 the front with box terminal/cover				
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 the front with box terminal/cover		-		
touch protection on the front acc. to IEC 60529 finger-safe, for vertical contact from the front with box terminal/cover		°C		
terminal/cover	-			
Certificates/ approvals	touch protection on the front acc. to IEC 60529		0	n the front with box
	Certificates/ approvals			
General Product Approval EMC Declaration of Conformity	General Product Approval		EMC	
General Product Approval	protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Certificates/ approvals		IP00; IP20 with box terminal/cover finger-safe, for vertical contact from terminal/cover	n the fi
	Test Certificates Marine / Ship	oping		

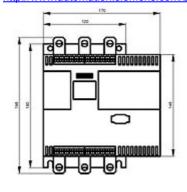
<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	ABS	B D R E A D VERITAS	Lloyd's Register urs	PRS
Marine / Shipping	other				
A STOCKED AND	Confirmation				

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=3RW4434-2BC46				
Cax online generator				

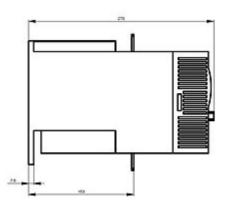
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4434-2BC46

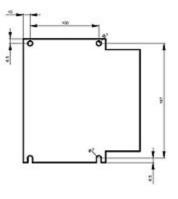
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4434-2BC46

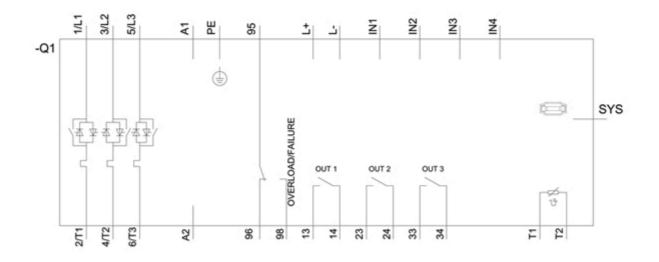
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4434-2BC46&lang=en



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