SIEMENS

Data sheet

SIRIUS soft starter Values at 690 V, 40 °C standard: 134 A, 132 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 >>3RW5535-2HA16<<

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
ower Electronics		
product designation		Soft starter
operational current		
• at 40 °C rated value	А	134
● at 50 °C rated value	А	117
● at 60 °C rated value	А	100
operational current for 3-phase motors at inside-delta circuit		
• at 40 °C rated value	А	232
● at 50 °C rated value	А	203
• at 60 °C rated value	А	173
yielded mechanical performance for 3-phase motors		
• at 400 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 500 V		
— at standard circuit at 40 °C rated value	W	90 000
— at inside-delta circuit at 40 °C rated value	W	160 000
 at 690 V at standard circuit at 40 °C rated value 	W	132 000

3RW4435-2BC46

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Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit 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	wire length maximum	m	500
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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		

 finely stranded with core end processing finely stranded without core end processing 		
 Tinely stranded without core end processing 		16 70 mm ²
		16 70 mm ²
• stranded	-	16 70 mm²
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 mm², 1x 70 mm²
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		
• solid		2x (0.25 1.5 mm²)
 finely stranded with core end processing 	_	2x (0.25 1.5 mm²)
type of connectable conductor cross-sections at AWG cables		
 for main contacts 		4 250 kcmil
 for auxiliary contacts 		2x (24 16)
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 height 0.3 m)
		1K6 (only occasional condensation), 1C2 (no salt mist),
• during storage acc. to IEC 60721		1S2 (sand must not get inside the devices), 1M4
during operation acc. to IEC 60721		1S2 (sand must not get inside the devices), 1M4
during operation acc. to IEC 60721 ambient temperature		1S2 (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt
• during operation acc. to IEC 60721		1S2 (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt
during operation acc. to IEC 60721 ambient temperature	°C °C	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
• during operation acc. to IEC 60721 ambient temperature • during operation • during storage		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 60
during operation acc. to IEC 60721 ambient temperature during operation	°C	 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 60 -25 +80
during operation acc. to IEC 60721 ambient temperature during operation during storage derating temperature	°C	 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 60 -25 +80 40 IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box
during operation acc. to IEC 60721 ambient temperature during operation during storage derating temperature protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529	°C	 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 60 -25 +80 40 IP00; IP20 with box terminal/cover
during operation acc. to IEC 60721 ambient temperature during operation during storage derating temperature protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Certificates/ approvals	°C	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 60 -25 +80 40 IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box terminal/cover
during operation acc. to IEC 60721 ambient temperature during operation during storage derating temperature protection class IP on the front acc. to IEC 60529	°C	 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 60 -25 +80 40 IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box terminal/cover
during operation acc. to IEC 60721 ambient temperature during operation during storage derating temperature protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Certificates/ approvals	°C	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 60 -25 +80 40 IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box terminal/cover finger-safe, for vertical contact from the fort with box terminal/cover
• during operation acc. to IEC 60721 ambient temperature • during operation • during storage derating temperature protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Certificates/ approvals	°C	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 60 -25 +80 40 IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box terminal/cover EMC Declaration of Conformity EME Declaration of Conformity
during operation acc. to IEC 60721 ambient temperature during operation during storage derating temperature protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Certificates/ approvals	°C	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 60 -25 +80 40 IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box terminal/cover EMC
• during operation acc. to IEC 60721 ambient temperature • during operation • during storage derating temperature protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 ertificates/ approvals	°C	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 60 -25 +80 40 IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box terminal/cover EMC Declaration of Conformity EME EMC

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

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 150 • at 575/600 V at standard circuit at 50 °C rated value hp 150 • at standard circuit at 50 °C rated value hp 100 - at standard circuit at 50 °C rated value hp 200 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/c10 Industry Mall (Online ordering system) https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4435-2BC46 Cax online generator http://support.industry.siemens.com/cs/ww/en/ps/3RW4435-2BC46 Service&Support (Manuals, Certificates, Characteristics, FAQs,) http://www.automation.siemens.com/cs/ww/en/ps/3RW4435-2BC46	UL/CSA ratings				
 at standard circuit at 50 °C rated value at standard circuit at 50 °C rated value bp at standard circuit at 50 °C rated value bp at 575/600 V at standard circuit at 50 °C rated value bp bp at standard circuit at 50 °C rated value bp bp contact rating of auxiliary contacts according to UL B300 / R300 Further information 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=3RW4435-2BC46 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4435-2BC46 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW4435-2BC46 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)					
— at inside-delta circuit at 50 °C rated value — at inside-delta circuit at 50 °C rated value — at standard circuit at 50 °C rated value — at standard circuit at 50 °C rated value 	• at 460/480 V				
	- at standard circuit at 50 °C rated value	hp	75		
— at standard circuit at 50 °C rated value — at inside-delta circuit at 50 °C rated value hp 100 — at inside-delta circuit at 50 °C rated value hp 200 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=3RW4435-2BC46 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4435-2BC46 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW4435-2BC46 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)	- at inside-delta circuit at 50 °C rated value	hp	150		
— at inside-delta circuit at 50 °C rated value hp 200 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=3RW4435-2BC46 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4435-2BC46 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW4435-2BC46 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)	● at 575/600 V				
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=3RW4435-2BC46 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4435-2BC46 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW4435-2BC46 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)	— at standard circuit at 50 °C rated value	hp	100		
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=3RW4435-2BC46 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4435-2BC46 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW4435-2BC46 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)	- at inside-delta circuit at 50 °C rated value	hp	200		
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=3RW4435-2BC46 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4435-2BC46 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW4435-2BC46 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)	contact rating of auxiliary contacts according to UL B300 / R300				
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=3RW4435-2BC46 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4435-2BC46 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW4435-2BC46 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)	Further information				

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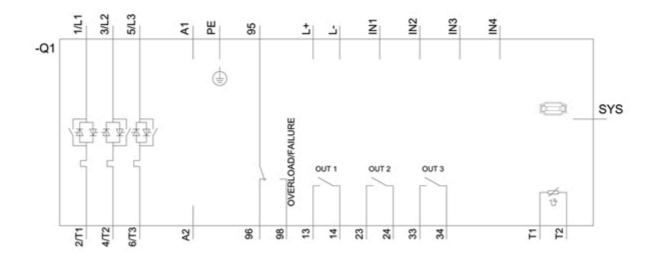
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