SIEMENS

Data sheet



SIRIUS soft starter Values at 575 V, 50 °C standard: 280 A, 250 hp Inside-delta: 485 A, 500 hp 400-600 V AC, 115 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5545-2HA16<<

3RW4445-2BC35

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	313
 at 50 °C rated value 	А	280
• at 60 °C rated value	А	250
operational current for 3-phase motors at inside-delta circuit		
 at 40 °C rated value 	А	542
 at 50 °C rated value 	А	485
• at 60 °C rated value	А	433
yielded mechanical performance for 3-phase motors ● at 400 V		
— at standard circuit at 40 °C rated value	W	160 000
— at inside-delta circuit at 40 °C rated value	W	315 000
• at 500 V		
— at standard circuit at 40 °C rated value	W	200 000
— at inside-delta circuit at 40 °C rated value	W	355 000
operating frequency rated value	Hz	50 60

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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	62
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	145
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	210
height	mm	230
depth	mm	298
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 		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 clamping point		
 finely stranded with core end processing 		70 240 mm²

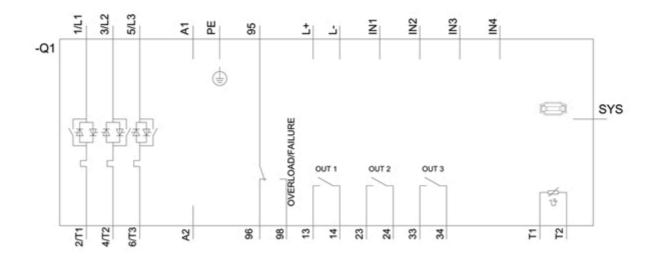
70 240 mm ² 95 300 mm ² 120 185 mm ² 120 185 mm ² 120 240 mm ² min. 2x 50 mm ² , max. 2x 185 mm ² min. 2x 50 mm ² , max. 2x 185 mm ²
120 185 mm ² 120 185 mm ² 120 240 mm ² min. 2x 50 mm ² , max. 2x 185 mm ²
120 185 mm ² 120 240 mm ² min. 2x 50 mm ² , max. 2x 185 mm ²
120 185 mm ² 120 240 mm ² min. 2x 50 mm ² , max. 2x 185 mm ²
120 185 mm ² 120 240 mm ² min. 2x 50 mm ² , max. 2x 185 mm ²
120 240 mm² min. 2x 50 mm², max. 2x 185 mm²
min. 2x 50 mm², max. 2x 185 mm²
min $2x 50 \text{ mm}^2$ max $2x 185 \text{ mm}^2$
min. 2x 00 min , max. 2x 100 min
max. 2x 70 mm ² , max. 2x 240 mm ²
250 500 kcmil
3/0 600 kcmil
min. 2x 2/0, max. 2x 500 kcmil
50 240 mm²
70 240 mm ²
2x (0.25 1.5 mm²)
2x (0.25 1.5 mm ²)
2/0 500 kcmil
2x (24 16)
m 5 000
2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
1K6 (only occasional condensation), 1C2 (no salt mist), 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
°C 60
°C -25 +80
°C 40
IP00; IP20 with box terminal/cover
finger-safe, for vertical contact from the front with box terminal/cover

<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	ABS	BUREAU VERITAS	Lloyd's Register urs	PRS
Marine / Shipping	other				
510000 AS	Confirmation				



UL/CSA ratings	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	200				
 — at inside-delta circuit at 50 °C rated value 	hp	400				
• at 575/600 V						
 — at standard circuit at 50 °C rated value 	hp	250				
- at inside-delta circuit at 50 °C rated value	hp	500				
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/101494						
Information- and Downloadcenter (Catalogs, Brochures,)					
https://www.siemens.com/ic10						
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/produc	t2mlfb=3RW44	145-2BC35				
Cax online generator						
http://support.automation.siemens.com/WW/CAXorder/defau	lt.aspx?lang=e	en&mlfb=3RW4445-2BC35				
Service&Support (Manuals, Certificates, Characteristics, FAQs,)						
https://support.industry.siemens.com/cs/ww/en/ps/3RW4445						
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4445-2BC35⟨=en						
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