SIEMENS

Data sheet 3RW4435-2BC45



SIRIUS soft starter Values at 500 V, 40 °C standard: 134 A, 90 kW Inside-delta: 232 A, 160 kW 400-600 V AC, 230 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5535-2HA16<<

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 	Α	134
 at 50 °C rated value 	Α	117
at 60 °C rated value	Α	100
operational current for 3-phase motors at inside-delta		
circuit		
	A	232
circuit	A A	232 203
e at 40 °C rated value		
 at 40 °C rated value at 50 °C rated value 	А	203
 at 40 °C rated value at 50 °C rated value at 60 °C rated value 	А	203
circuit • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value yielded mechanical performance for 3-phase motors	А	203
circuit • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value yielded mechanical performance for 3-phase motors • at 400 V	A A	203 173
circuit • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value yielded mechanical performance for 3-phase motors • at 400 V — at standard circuit at 40 °C rated value	A A W	203 173 75 000
circuit • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value yielded mechanical performance for 3-phase motors • at 400 V — at standard circuit at 40 °C rated value — at inside-delta circuit at 40 °C rated value	A A W	203 173 75 000
circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value yielded mechanical performance for 3-phase motors at 400 V at standard circuit at 40 °C rated value at inside-delta circuit at 40 °C rated value at 500 V	A A W W	203 173 75 000 132 000
circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value yielded mechanical performance for 3-phase motors at 400 V at standard circuit at 40 °C rated value at inside-delta circuit at 40 °C rated value at 500 V at standard circuit at 40 °C rated value	A A W W	203 173 75 000 132 000 90 000

	_	
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	Α	26
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	76
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	230
at 60 Hz rated value	V	230
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 		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		16 70 mm²

	16 70 mm²
	16 70 mm²
-	
	16 70 mm²
	16 70 mm²
	16 70 mm²
	max. 1x 50 mm², 1x 70 mm²
	max. 1x 50 mm², 1x 70 mm²
	max. 2x 70 mm²
	6 2/0
	6 2/0
	max. 2x 1/0
	16 95 mm²
	25 120 mm²
	2x (0.25 1.5 mm²)
	2x (0.25 1.5 mm²)
	4 250 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
	°C °C

General Product Approval EMC Declaration of Conformity













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	150		
● at 575/600 V				
 at standard 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		
contact rating or adminary contacts according to or		2000711000		

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=3RW4435-2BC45

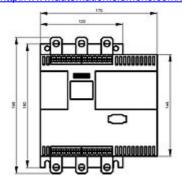
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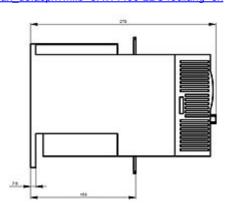
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4435-2BC45

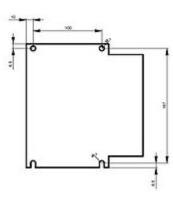
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

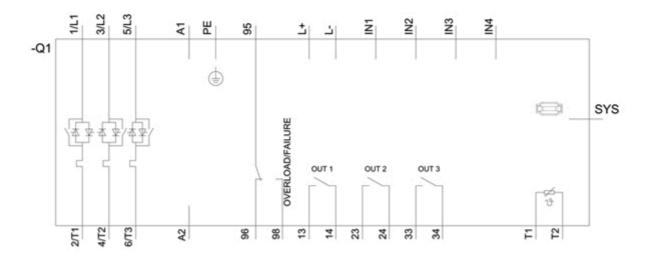
https://support.industry.siemens.com/cs/ww/en/ps/3RW4435-2BC45

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RW4435-2BC45&lang=en









last modified: 12/15/2020 ☑