SIEMENS

Data sheet 3RW4453-2BC35



SIRIUS soft starter Values at 575 V, 50 °C standard: 494 A, 500 hp Inside-delta: 856 A, 950 hp 400-600 V AC, 115 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5548-2HA16<<

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	551
 at 50 °C rated value 	Α	494
at 60 °C rated value	A	438
operational current for 3-phase motors at inside-delta circuit		
 at 40 °C rated value 	Α	954
 at 50 °C rated value 	Α	856
 at 60 °C rated value 	Α	759
yielded mechanical performance for 3-phase motors		
• at 400 V		
 at standard circuit at 40 °C rated value 	W	315 000
 at inside-delta circuit at 40 °C rated value 	W	560 000
● at 500 V		
 at standard circuit at 40 °C rated value 	W	355 000
 at inside-delta circuit at 40 °C rated value 	W	630 000
operating frequency rated value	Hz	50 60
relative negative tolerance of the operating frequency	%	-10

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type of connectable conductor cross-sections for DIN cable lug for main contacts • finely stranded 50 240 mm²			3
cable lug for main contacts ● finely stranded 50 240 mm²	number of CO contacts for auxiliary contacts		1
	 finely stranded 		50 240 mm²
• stranded 70 240 mm ²	stranded		70 240 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 		2/0 500 kcmil
 for auxiliary contacts 		2x (24 16)
Ambient 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)
• during storage acc. to IEC 60721		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
 during operation acc. to IEC 60721 		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
ambient temperature		
 during operation 	°C	60
during storage	°C	-25 +80
derating temperature	°C	40
• .		

Certificates/ approvals

General Product Approval

ЕМС

Declaration of Conformity













Test Certificates

Marine / Shipping

other

Special Test Certificate







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	400
 at inside-delta circuit at 50 °C rated value 	hp	750
• at 575/600 V		
 at standard circuit at 50 °C rated value 	hp	500
 at inside-delta circuit at 50 °C rated value 	hp	950
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 Download center (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4453-2BC35

Cax online generator

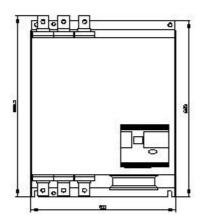
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4453-2BC35

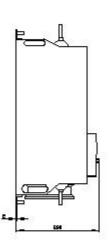
 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$

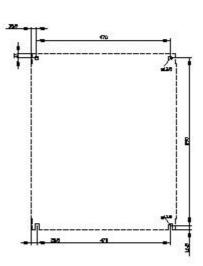
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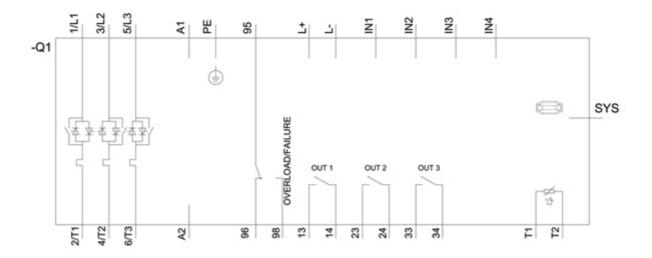
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4453-2BC35&lang=en









last modified: 1/18/2021 **C**