SIEMENS

Data sheet 3RW4425-1BC34



SIRIUS soft starter Values at 460 V, 50 °C standard: 51 A, 30 hp Inside-delta: 88 A, 60 hp 200-460 V AC, 115 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5525-1HA14<<

General technical data			
	SIRIUS		
	Yes		
	Yes		
	Yes		
V	690		
	3, acc. to IEC 60947-4-2		
	Q		
	G		
	Soft starter		
	57		
	51		
Α	45		
А	99		
А	88		
Α	78		
kW	15		
kW	30		
kW	30		
kW	55		
hp	15		
hp Hz	50 60		
·			
	A A A A A kW kW		

operating voltage at standard circuit rated value	V	200 460
relative negative tolerance of the operating voltage at	%	-15
standard circuit relative positive tolerance of the operating voltage at	%	10
standard circuit		000 400
operating voltage at inside-delta circuit rated value	V	200 460
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	11
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during	W	36
operation typical		
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	%	-15
voltage at AC at 50 Hz relative positive tolerance of the control supply	%	10
voltage at AC at 50 Hz relative negative tolerance of the control supply	%	-15
voltage at AC at 60 Hz relative positive tolerance of the control supply	%	10
voltage at AC at 60 Hz	70	
display version for fault signal		Display
Mechanical data		
width	mm	170
height	mm	192
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		box terminal
for auxiliary and control circuit		screw-type 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		
• solid		2.5 16 mm ²
 finely stranded with core end processing 		2.5 35 mm ²
 finely stranded without core end processing 		4 50 mm²
• stranded		4 70 mm²
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		

• solid		2,5 16 mm²
 finely stranded with core end processing 		2.5 50 mm²
 finely stranded without core end processing 		10 50 mm²
stranded		10 70 mm²
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		
• solid		2x (2.5 16 mm²)
 finely stranded with core end processing 		2x (2.5 35 mm²)
 finely stranded without core end processing 		2x (4 35 mm²)
• stranded		2x (4 50 mm²)
type of connectable conductor cross-sections at AWG cables for main contacts for box terminal		
 using the back clamping point 		10 2/0
using the front clamping point		10 2/0
 using both clamping points 		2x (10 1/0)
type of connectable conductor cross-sections for auxiliary contacts		
• solid		2x (0.5 2.5 mm²)
 finely stranded with core end processing 		2x (0.5 1.5 mm²)
type of connectable conductor cross-sections at AWG cables		
 for auxiliary contacts 		2x (20 14)
 for auxiliary contacts finely stranded with core end processing 		2x (20 16)
Ambient conditions		
installation altitude at height above sea level	m	5 000
environmental category		
 during transport according to IEC 60721 		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
 during storage according to IEC 60721 		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
 during operation according 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
protection class IP on the front according to IEC 60529		IP20
touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front
Certificates/ approvals		

General Product Approval







Confirmation







Declaration of Conformity

Test Certificates

Marine / Shipping





Special Test Certificate

Type Test Certificates/Test Report





Marine / Shipping

other







Confirmation

UL/CSA ratings yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V - at inside-delta circuit at 50 °C rated value hp 25 • at 220/230 V — at standard circuit at 50 °C rated value hp 15 - at inside-delta circuit at 50 °C rated value hp 30 • at 460/480 V - at standard circuit at 50 °C rated value hp 30 - at inside-delta circuit at 50 °C rated value 60 hp 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=3RW4425-1BC34

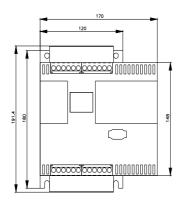
Cax online generator

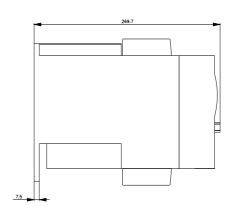
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4425-1BC34

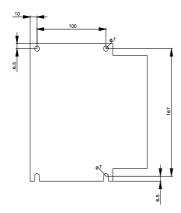
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

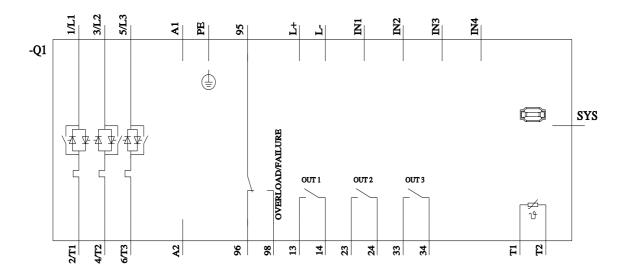
https://support.industry.siemens.com/cs/ww/en/ps/3RW4425-1BC34

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RW4425-1BC34&lang=en









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