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3RW4422-1BC36

SIEMENS



Data sheet



SIRIUS soft starter Values at 575 V, 50 °C standard: 26 A, 20 hp Inside-delta: 45 A, 40 hp 400-690 V AC, 115 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5524-1HA16<<

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 according to EN 61346-2		Q
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750		G
Power Electronics		
product designation		Soft starter
operational current		
 at 40 °C rated value 	А	29
 at 50 °C rated value 	А	26
 at 60 °C rated value 	А	23
operational current for 3-phase motors at inside-delta circuit	-	
 at 40 °C rated value 	А	50
 at 50 °C rated value 	А	45
 at 60 °C rated value 	А	40
yielded mechanical performance for 3-phase motors		
• at 400 V		
- at standard circuit at 40 °C rated value	kW	15
- at inside-delta circuit at 40 °C rated value	kW	22
• at 500 V		
— at standard circuit at 40 °C rated value	kW	18.5
- at inside-delta circuit at 40 °C rated value	kW	30
 at 690 V at standard circuit at 40 °C rated value 	kW	30
operating frequency rated value	Hz	50 60
relative negative tolerance of the operating frequency	%	-10
relative positive tolerance of the operating frequency	%	10

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operating voltage at standard circuit rated value	V	400.
relative negative tolerance of the operating voltage at standard circuit	%	⁴⁰⁰ . () dientudong
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	5
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	8
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	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		
type of electrical connectionfor main current circuit		box terminal
		box terminal screw-type terminals
for main current circuit		
 for main current circuit for auxiliary and control circuit 		screw-type terminals
for main current circuit for auxiliary and control circuit number of NC contacts for auxiliary contacts		screw-type terminals 0
for main current circuit for auxiliary and control circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts		screw-type terminals 0 3 1
for main current circuit for auxiliary and control circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front		screw-type terminals 0 3
for main current circuit for auxiliary and control circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point		screw-type terminals 0 3 1

 stranded 				47		
main contacts for bo	conductor cross-sec ox terminal using the) dien	tudong
clamping point	_					
 solid 				2,5 16 mm		
-	with core end processi	-		2.5 50 mm ²		
-	without core end proce	essing		10 50 mm ²		
stranded				10 70 mm²		
51	conductor cross-sec ox terminal using bot					
 solid 				2x (2.5 16 mr	m²)	
 finely stranded 	with core end processi	ng		2x (2.5 35 mr	m²)	
 finely stranded 	without core end proce	essing		2x (4 35 mm²	2)	
 stranded 				2x (4 50 mm ²	2)	
51	conductor cross-sec acts for box terminal					
 using the back 	clamping point			10 2/0		
 using the front of 	clamping point			10 2/0		
 using both clarr 				2x (10 1/0)		
auxiliary contacts	conductor cross-sec	tions for				
• solid				2x (0.5 2.5 m		
*	with core end processi	-		2x (0.5 1.5 m	im²)	
type of connectable cables	conductor cross-sec	tions at AWG				
 for auxiliary cor 	tacts			2x (20 14)		
-	tacts finely stranded w	vith core end		2x (20 14) 2x (20 16)		
processing				2/(20 10)		
Ambient conditions						
installation altitude	at height above sea le	evel	m	5 000		
environmental categ	ory					
 during transport 	according to IEC 607	21		2K2, 2C1, 2S1,	2M2 (max. fall heigh	nt 0.3 m)
 during storage a 	according to IEC 6072	1		· · ·	sional condensation)	
		204			t not get inside the d	
 during operation according to IEC 60721 				on of ice, no conden d must not get into th	sation), 3C3 (no salt ne devices) 3M6	
ambient temperature	9					,
 during operation 			°C	60		
 during storage 				-25 +80		
derating temperatur	9		°C	40		
	protection class IP on the front according to IEC			IP20		
60529						
· ·	the front according t	o IEC 60529		finger-safe, for	vertical contact from	the front
Certificates/ approval	S					
General Product Ap	proval					EMC
		Confirmatio	מר	•		•
60	(m)	Comman	<u>511</u>	(III)	FAL	kà.
					СПС	Ś
CSA	ccc			UL		RCM
Declaration of	Test Certificates			Marine / Shipping		
Conformity						
	Type Test Certific-	Special Test C	ertific-	and the second s	(OUVER	
CE	ates/Test Report	<u>ate</u>	<u>orano-</u>	199	6 <u>-</u> 4-6	Lloyds
				A STATE		Negister
FC Kend				ABS	BUREAU	LRS
EG-Konf.					VERITAS	
EG-Konf.					VERITAS	
EG-Konf.					VERITAS	
EG-Konf. Marine / Shipping		other			VERITAS	

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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	15		
- at inside-delta circuit at 50 °C rated value	hp	30		
• at 575/600 V				
 — at standard circuit at 50 °C rated value 	hp	20		
- at inside-delta circuit at 50 °C rated value	hp	40		
contact rating of auxiliary contacts according to UL		B300 / R300		
urther 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)

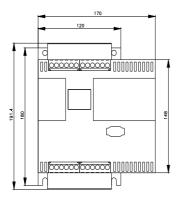
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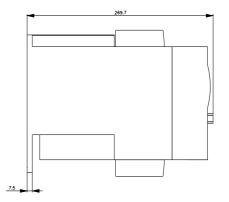
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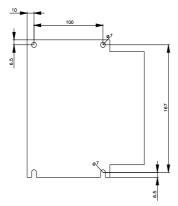
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4422-1BC36 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RW4422-1BC36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4422-1BC36&lang=en

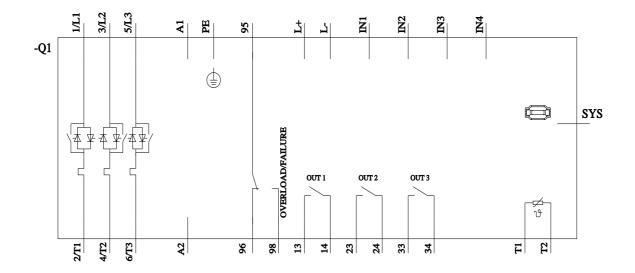






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