SIEMENS

Data sheet

3RW4424-1BC46



SIRIUS soft starter Values at 690 V, 40 °C standard: 47 A, 45 kW Inside-delta: only up to 600 V 400-690 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5524-1HA16<<

product brand name		SIRIUS
product feature		311103
		Yes
integrated bypass contact system thyristers		Yes
thyristors product function		Tes
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	47
 at 50 °C rated value 	А	42
• at 60 °C rated value	А	37
operational current for 3-phase motors at inside-delta circuit		
 at 40 °C rated value 	А	81
• at 50 °C rated value	А	73
• at 60 °C rated value	А	64
yielded mechanical performance for 3-phase motors		
• at 400 V		
— at standard circuit at 40 °C rated value	W	22 000
— at inside-delta circuit at 40 °C rated value	W	45 000
• at 500 V		
— at standard circuit at 40 °C rated value	W	30 000
— at inside-delta circuit at 40 °C rated value	W	45 000
 at 690 V at standard circuit at 40 °C rated value 	W	45 000

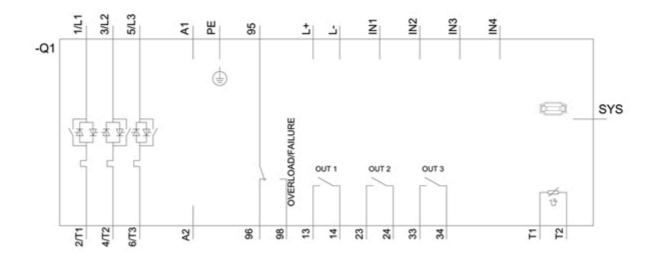
	-	
relative negative tolerance of the operating frequency	%	-10
relative positive tolerance of the operating frequency	%	10
operating voltage at standard circuit rated value	V	400 690
relative negative tolerance of the operating voltage at standard circuit	%	-15
relative positive tolerance of the operating 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	9
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during	W	32
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	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	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		

<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS	BUREAU	Lloyds Register urs	PRS
Marine / Shipping	other				
DNVGL	<u>Confirmation</u>				

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	25		
— at inside-delta circuit at 50 °C rated value	hp	50		
● at 575/600 V				
— at standard circuit at 50 °C rated value	hp	30		
— at inside-delta circuit at 50 °C rated value	hp	60		
contact rating of auxiliary contacts according to UL		B300 / R300		
Further information				
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 Cax online generator http://support.automation.siemens.com/WW/CAXorder/defaul Service&Support (Manuals, Certificates, Characteristics, https://support.industry.siemens.com/cs/ww/en/ps/3RW4424-	?mlfb=3RW4 lt.aspx?lang=e FAQs,) -1BC46	en&mlfb=3RW4424-1BC46		
Image database (product images, 2D dimension drawings http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfl				

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