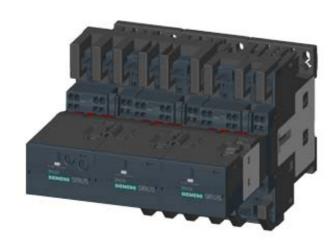
STAR-DELTA COMB. AC3, 22KW/400V AC24V, 50/60HZ, 3-POLE, SZ S0,

SPRING-LOADED TERMINAL ELECTR. AND MECH. INTERLOCK 3NO+3NC INTEGR.



General technical data:		
product brand name		SIRIUS
Product designation		star-delta (wye-delta) contactor assembly 3RA24
Product function		wye-delta motor start-up
Size of the contactor		S0
Protection class IP / on the front		IP20
Degree of pollution		3
Insulation voltage / with degree of pollution 3 / rated value	V	690
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
during transport	°C	-55 +80
during storage	°C	-55 +80
during operating	°C	-25 +60
Resistance against shock		12.5g / 5 ms and 7.8g / 10 ms
Impulse voltage resistance / rated value	kV	6
Active power loss / per conductor / typical	W	1.6
Manufacturer article number		
 of the function module for for wye-delta circuits included in the scope of supply 		3RA2816-0EW20
• 1 / of the contactor included in the scope of supply		3RT2027-2AC20

• 2 / of the contactor included in the scope of supply	3RT2027-2AC20
• 3 / of the contactor included in the scope of supply	3RT2026-2AC20
• of the RS applied assembly kit	3RA2923-2BB2
Mechanical operating cycles as operating time	
of the main contacts / typical	10,000,000
of the auxiliary contacts / typical	10,000,000
of the contactor / typical	10,000,000
• of the contactor with added auxiliary switch block / typical	10,000,000

Communication:		
Product function		
• bus-communication		No
control circuit interface with IO link		No
Protocol / is supported / AS interface protocol		No

Main circuit:		
Number of poles / for main current circuit		3
Number of NC contacts / for main contacts		0
Number of NO contacts / for main contacts		3
Operating voltage / at AC-3 / rated value / maximum	V	690
Operating current		
• at AC-1 / at 400 V		
• at 40 °C ambient temperature / rated value	Α	50
• at 60 °C ambient temperature / rated value	Α	42
• at AC-2 / at 400 V / rated value	Α	40
• at AC-3 / at 400 V / rated value	Α	50
• with 1 current path / at DC-1		
at 24 V / rated value	Α	35
• at 110 V / rated value	Α	4.5
• with 2 current paths in series / at DC-1		
• at 24 V / rated value	Α	35
• at 110 V / rated value	Α	35
• with 3 current paths in series / at DC-1		
• at 24 V / rated value	Α	35
• at 110 V / rated value	Α	35
• with 1 current path / at DC-3 / at DC-5		
• at 24 V / rated value	Α	20
• at 110 V / rated value	Α	2.5
• with 2 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	Α	35

• at 110 V / rated value	Α	15
• with 3 current paths in series / at DC-3 / at DC-5		
• at 24 V / rated value	Α	35
• at 110 V / rated value	Α	35
Service power		
• at AC-2 / at 400 V / rated value	kW	18.5
• at AC-3		
• at 400 V / rated value	kW	22
• at 500 V / rated value	kW	19
• at 690 V / rated value	kW	19
• at AC-4 / at 400 V / rated value	kW	4.4
Off-load operating frequency	1/h	1,500
Frequency of operation		
• with AC-1 / maximum	1/h	1,000
• with AC-2 / maximum	1/h	1,000
• with AC-3 / maximum	1/h	1,000
• with AC-4 / maximum	1/h	300

	conventional
	AC
Hz	50
Hz	60
V	24
V	24
	0.8 1.1
	0.8 1.1
V-A	65
V-A	8.5
	0.82
	0.25
	Hz V V

Auxiliary circuit:		
Product extension / auxiliary switch	No	
Contact reliability / of the auxiliary contacts	< 1	error per 100 million operating cycles
Number of NC contacts / for auxiliary contacts		

instantaneous switching		3
lagging switching		0
Number of NO contacts / for auxiliary contacts		
instantaneous switching		3
leading switching		0
Operating current / of the auxiliary contacts		
• at AC-12 / maximum	Α	10
• at AC-15		
• at 230 V	Α	6
• at 400 V	Α	3
• at DC-12		
• at 48 V	Α	6
• at 60 V	Α	6
• at 110 V	Α	3
• at 220 V	Α	1
• at DC-13		
• at 24 V	Α	10
• at 48 V	Α	2
• at 60 V	Α	2
• at 110 V	Α	1
• at 220 V	Α	0.3

Design of the fuse link	
• for short-circuit protection of the main circuit	
with type of assignment 1 / required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 100 A
at type of coordination 2 / required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35

• for short-circuit protection of the auxiliary switch / required

A

fuse gL/gG: 10 A

Installation/mounting/dimensions:			
mounting position		+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface	
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail	
Width	mm	135	
Height	mm	114	
Depth	mm	171	
Distance, to be maintained, to the ranks assembly			
• forwards	mm	6	

Short-circuit:

• backwards	mm	0
• upwards	mm	6
• downwards	mm	6
• sidewards	mm	6
Distance, to be maintained, to earthed part		
• forwards	mm	6
• backwards	mm	0
• upwards	mm	6
• downwards	mm	6
• sidewards	mm	6
Distance, to be maintained, conductive elements		
• forwards	mm	6
• backwards	mm	0
• upwards	mm	6
• downwards	mm	6
• sidewards	mm	6

Connections:		
Design of the electrical connection		
for main current circuit		spring-loaded terminals
for auxiliary and control current circuit		spring-loaded terminals
Type of the connectable conductor cross-section		
• for main contacts		
• finely stranded		
 with conductor end processing 		2x (1 6 mm²)
 without conductor final cutting 		2x (1 6 mm²)
• for AWG conductors / for main contacts		1x (18 8)
for auxiliary contacts		
• finely stranded		
 with conductor end processing 		2x (0.5 1.5 mm²)
 without conductor final cutting 		2x (0.5 1.5 mm²)
• for AWG conductors / for auxiliary contacts		2x (20 14)

Certificates/approvals:		
Verification of suitability	CE / UL / CSA / CCC	

General Product Approval Declaration of Conformity

Test Certificates





Special Test Certificate

Shipping Approval









GL





Shipping Approval

other





other

Environmental Confirmations

UL/CSA ratings

Contact rating designation / for auxiliary contacts / according to UL

A600 / Q600

Safety:			
B10 value / with high demand rate			
according to SN 31920		1,000,000	
Failure rate [FIT] / with low demand rate			
according to SN 31920	FIT	100	
Proportion of dangerous failures			
• with low demand rate / according to SN 31920	%	40	
• with high demand rate / according to SN 31920	%	75	
T1 value / for proof test interval or service life			
according to IEC 61508	а	20	
Protection against electrical shock		finger-safe	

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

 $\underline{\text{http://www.siemens.com/industrial-controls/mall}}$

CAx-Online-Generator

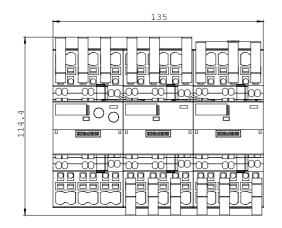
http://www.siemens.com/cax

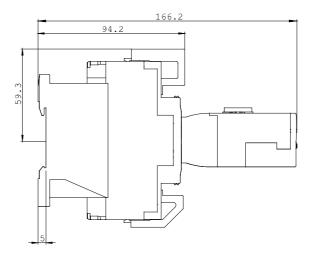
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

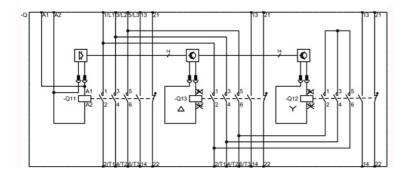
 $\underline{\text{http://support.automation.siemens.com/WW/view/en/3RA2426-8XF32-2AC2/all}}$

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2426-8XF32-2AC2







last change: Aug 4, 2014