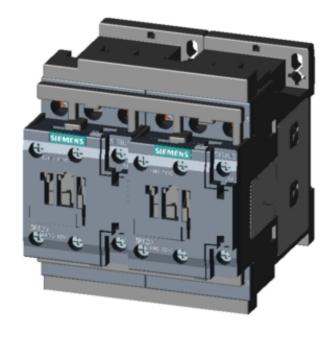
Product data sheet



REV. COMB., AC3, 11KW/400V AC230V, 50/60HZ, 3-POLE, SZ SO SCREW TERMINAL ELECTR. AND MECH. INTERLOCK 2NO INTEGR.

General technical data:		
product brand name		SIRIUS
product designation		star-delta (wye-delta) contactor assembly 3RA24
Product function		reversing contactor
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
Item designation		
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		К
• according to DIN EN 61346-2		Q

Manufacturer article number		
• 1 / of the contactor included in the scope of supply		3RT2026-1AL20
• 2 / of the contactor included in the scope of supply		3RT2026-1AL20
of the RS applied assembly kit		3RA2923-2AA1
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 / will be 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	٧	690
Operational current		
• at AC-1 / at 400 V		
• at 40 °C ambient temperature / rated value	Α	40
• at 60 °C ambient temperature / rated value	Α	35
• at AC-2 / at 400 V / rated value	Α	25
• at AC-3 / at 400 V / rated value	Α	25
• at AC-4 / at 400 V / rated value	Α	9
• 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	А	2.5

Α	35
Α	15
Α	35
Α	35
kW	11
kW	11
kW	11
kW	11
kW	4.4
1/h	15
1/h	1,000
1/h	1,000
1/h	1,000
1/h	300
	A A A kW kW kW kW hW hW hW hW hW hW

Control circuit:			
Design of activation		conventional	
Type of voltage / of the controlled supply voltage		AC	
Control supply voltage frequency			
• 1 / rated value	Hz	50	
• 2 / rated value	Hz	60	
Control supply voltage / 1			
• at 50 Hz / for AC / rated value	V	230	
• at 60 Hz / for AC / rated value	V	230	
Operating range factor control supply voltage rated value / of the magnet coil			
• at 50 Hz / for AC		0.8 1.1	
• at 60 Hz / for AC		0.8 1.1	
Apparent pull-in power / of the solenoid / for AC	V-A	77	
Apparent holding power / of the solenoid / for AC	V-A	9.8	
Inductive power factor			
• with the pull-in power of the coil		0.82	
• with the pull-in power of the coil		0.27	

Auxiliary circuit:			
Product extension / auxiliary switch		Yes	

Contact reliability / of the auxiliary contacts		< 1 error per 100 million operating cycles
Number of NC contacts / for auxiliary contacts		
• per direction of rotation		0
• instantaneous switching		0
 lagging switching 		0
Number of NO contacts / for auxiliary contacts		
• per direction of rotation		0
• instantaneous switching		0
• leading switching		0
Operating current / of the auxiliary contacts		
• at AC-12 / maximum	Α	10
• at AC-15		
• at 230 V	А	6
• at 400 V	Α	3
• at DC-12		
• at 48 V	А	6
• at 60 V	А	6
• at 110 V	Α	3
• at 220 V	А	1
• at DC-13		
• at 24 V	А	10
• at 48 V	А	2
• at 60 V	А	2
• at 110 V	А	1
• at 220 V	А	0.3

				uit:
9	a Ya	100	-61	1111

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 A
• for short-circuit protection of the auxiliary switch / required	fuse gL/gG: 10 A

Installation/mounting/dimensions:			
mounting position		any	
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail	
Width	mm	90	
Height	mm	101	
Depth	mm	97	

Distance, to be maintained, to the ranks assembly		
• forwards	mm	6
• 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	screw-type terminals			
for auxiliary and control current circuit	screw-type terminals			
Type of the connectable conductor cross-section				
• for main contacts				
• solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)			
• stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)			
• finely stranded				
 with conductor end processing 	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²			
• for AWG conductors / for main contacts	2x (16 12), 2x (14 8)			
• for auxiliary contacts				
• solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
• finely stranded				
 with conductor end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
 for AWG conductors / for auxiliary contacts 	2x (20 16), 2x (18 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

UL/CSA ratings			
yielded mechanical performance (hp)			
• for single-phase squirrel cage motors			
• at 110/120 V / rated value	hp	2	
• at 230 V / rated value	hp	3	
• for three-phase squirrel cage motors			
• at 220/230 V / rated value	hp	7.5	
• at 460/480 V / rated value	hp	15	
• at 575/600 V / rated value	hp	20	
Operating current (FLA) / for three-phase squirrel cage motors			
• at 480 V / rated value	Α	21	
• at 600 V / rated value	Α	22	
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 value) / 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)

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

CAx-Online-Generator

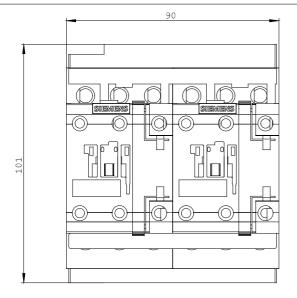
http://www.siemens.com/cax

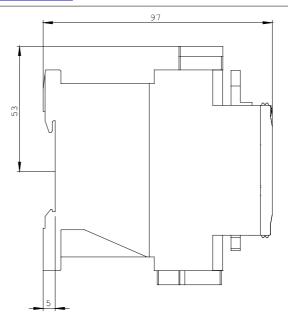
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

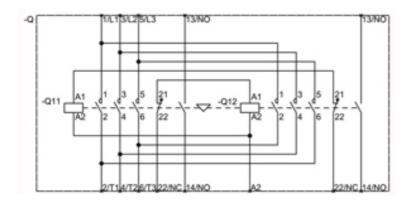
http://support.automation.siemens.com/WW/view/en/3RA2326-8XB30-1AL2-ZW96/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2326-8XB30-1AL2-ZW96







last change: Feb 4, 2013