## **SIEMENS**

## **Data sheet**

Contactor assembly for star-delta (wye-delta) start AC-3, 11 kW/400 V, 110 V AC 50/60 Hz, 3-pole, size S0 Spring-type terminals electrical and mechanical interlock 3 NO + 3 NC integrated



product brand name	SIRIUS		
product designation	Contactor assembly for star-delta (wye-delta) start		
product type designation	3RA24		
manufacturer's article number			
1 of the supplied contactor	3RT2024-2AG20		
2 of the supplied contactor	3RT2024-2AG20		
3 of the supplied contactor	3RT2024-2AG20		
<ul> <li>of the supplied RS assembly kit</li> </ul>	3RA2923-2BB2		
<ul> <li>of the supplied function module for wye-delta circuits</li> </ul>	3RA2816-0EW20		
General technical data			
size of contactor	S0		
product extension auxiliary switch	No		
shock resistance at rectangular impulse			
• at AC	7,5g / 5 ms, 4,7g / 10 ms		
• at DC	10g / 5 ms, 7,5g / 10 ms		
shock resistance with sine pulse			
• at AC	11,8g / 5 ms, 7,4g / 10 ms		
• at DC	15g / 5 ms, 10g / 10 ms		
mechanical service life (operating cycles)			
<ul> <li>of contactor typical</li> </ul>	10 000 000		
of the contactor with added auxiliary switch block typical	10 000 000		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	10/01/2009		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
<ul> <li>during operation</li> </ul>	-25 +60 °C		
during storage	-55 +80 °C		
Main circuit			
number of poles for main current circuit	3		
number of NO contacts for main contacts	3		
number of NC contacts for main contacts	0		
operating voltage			
at AC-3 rated value maximum	690 V		
operational current			
• at AC-3			
— at 400 V rated value	25 A		
operating power			
• at AC-3			
— at 400 V rated value	11 kW		

at EOO \/ rated \called	15 C I/M
— at 500 V rated value	15.6 kW
— at 690 V rated value	19 kW
operating frequency  • at AC-3 maximum	1 000 1/h
at AC-3 maximum  Control circuit/ Control	1 000 1/11
type of voltage of the control supply voltage	AC
control supply voltage 1 at AC	7.0
• at 50 Hz rated value	110 V
at 60 Hz rated value	110 V
operating range factor control supply voltage rated value of	110 V
magnet coil at AC	
● at 50 Hz	0.8 1.1
at 60 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	138 VA
• at 60 Hz	136 VA
inductive power factor with closing power of the coil	0.72
• at 50 Hz	0.72
at 60 Hz  apparent holding power of magnet cell at AC	0.74
apparent holding power of magnet coil at AC  • at 50 Hz	18.8 VA
• at 50 Hz • at 60 Hz	18.8 VA 15 VA
inductive power factor with the holding power of the coil	IV VA
at 50 Hz	0.25
• at 60 Hz	0.28
Auxiliary circuit	
number of NC contacts for auxiliary contacts	
instantaneous contact	3
number of NO contacts for auxiliary contacts	
• instantaneous contact	3
contact reliability of auxiliary contacts	< 1 error per 100 million operating cycles
UL/CSA ratings	, , , , , , , , , , , , , , , , , , , ,
	A600 / Q600
UL/CSA ratings	
UL/CSA ratings contact rating of auxiliary contacts according to UL	
UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection	
UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link	
UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit	A600 / Q600
UL/CSA ratings  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required	A600 / Q600 gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 63 A
UL/CSA ratings  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 63 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 25 A
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— backwards		0 mm			
— upwards		6 mm			
— downwards		6 mm			
— at the side		6 mm			
Connections/ Terminals					
type of electrical connection					
for main current circuit		spring-loaded terminals			
<ul> <li>for auxiliary and control circuit</li> </ul>		spring-loaded terminals			
at contactor for auxiliary contacts		Spring-type terminals			
of magnet coil		Spring-type terminals			
type of connectable conductor cross-sections for	main contacts				
• solid		2x (1 10 mm²)			
<ul> <li>solid or stranded</li> </ul>		2x (1 10 mm²)			
<ul> <li>finely stranded with core end processing</li> </ul>		2x (1 6 mm²)			
<ul> <li>finely stranded without core end processing</li> </ul>	9	2x (1 6 mm²)			
type of connectable conductor cross-sections	<b>i</b>				
<ul> <li>for auxiliary contacts</li> </ul>					
<ul><li>— solid or stranded</li></ul>		2x (0.5 2.5 mm²)			
<ul> <li>finely stranded with core end process</li> </ul>	ing	2x (0.5 1.5 mm²)			
<ul> <li>finely stranded without core end proce</li> </ul>	essing	2x (0.5 1.5 mm²)			
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>		2x (20 14)			
Safety related data					
B10 value with high demand rate according to SN	I 31920	1 000 000			
proportion of dangerous failures					
<ul> <li>with low demand rate according to SN 319</li> </ul>	20	40 %			
with high demand rate according to SN 319	920	75 %			
failure rate [FIT] with low demand rate according	with low demand rate according to SN 31920 100 FIT				
T1 value for proof test interval or service life acco	rding to IEC	20 a			
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			
Communication/ Protocol					
product function bus communication		No			
protocol is supported AS-Interface protocol		No			
product function control circuit interface with IO link		No			
Certificates/ approvals					
General Product Approval	Declaration of	Conformity	Test Certificates	Marine / Shipping	

Confirmation







Special Test Certificate



## Marine / Shipping













other Railway

Confirmation Vibration and Shock

Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RA2423-8XF32-2AG2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2423-8XF32-2AG2

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA242

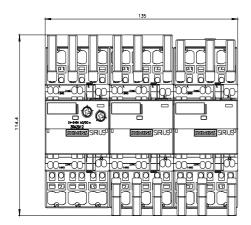
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$ 

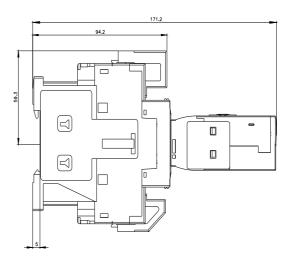
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2423-8XF32-2AG2&lang=en

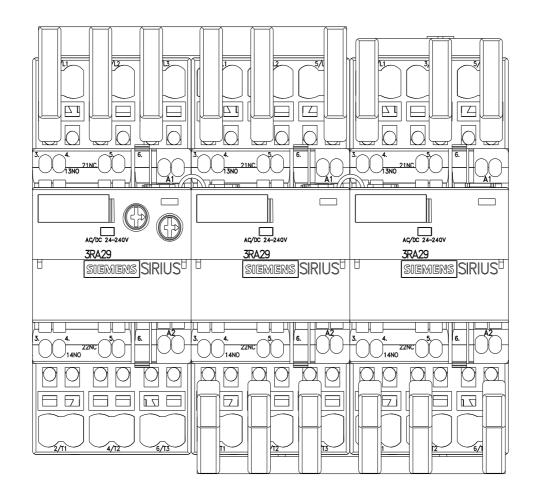
Characteristic: Tripping characteristics, I2t, Let-through current

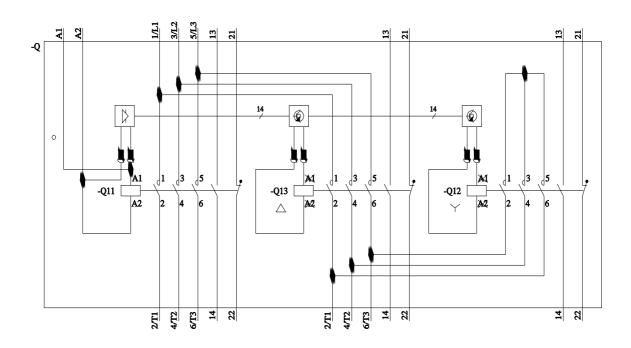
https://support.industry.siemens.com/cs/ww/en/ps/3RA242

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2423-8XF32-2AG2&objecttype=14&gridview=view1









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