SIEMENS

Data sheet

Contactor assembly for star-delta (wye-delta) start AC-3, 22 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	3RT2027-2AG20		
2 of the supplied contactor	3RT2027-2AG20		
3 of the supplied contactor	3RT2026-2AG20		
 of the supplied RS assembly kit 	3RA2923-2BB2		
of the supplied function module for wye-delta circuits	3RA2816-0EW20		
General technical data			
size of contactor	S0		
product extension auxiliary switch	No		
shock resistance at rectangular impulse			
• at AC	8,3g / 5 ms, 5,3g / 10 ms		
• at DC	10g / 5 ms, 7,5g / 10 ms		
shock resistance with sine pulse			
• at AC	13,5g / 5 ms, 8,3g / 10 ms		
• at DC	15g / 5 ms, 10g / 10 ms		
mechanical service life (operating cycles)			
of contactor typical	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			
during operation	-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	50 A		
operating power			
• at AC-3			
— at 400 V rated value	22 kW		

-4.500.\/	40 134
— at 500 V rated value	19 kW
— at 690 V rated value	19 kW
operating frequency	4.000.4//
at AC-3 maximum Control circuit/ Control	1 000 1/h
Control circuit/ Control	AC
type of voltage of the control supply voltage	AC
control supply voltage 1 at AC • at 50 Hz rated value	440.1/
at 50 Hz rated value at 60 Hz rated value	110 V 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	164 VA
• at 60 Hz	160 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.72
● at 60 Hz	0.74
apparent holding power of magnet coil at AC	
• at 50 Hz	23 VA
• at 60 Hz	19 VA
inductive power factor with the holding power of the coil	0.05
• 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	3
instantaneous contact contact reliability of auxiliary contacts	< 1 error per 100 million operating cycles
CONTACT TENADING OF AUXINALY CONTACTS	Terror per 100 million operating cycles
	,
UL/CSA ratings	
UL/CSA ratings contact rating of auxiliary contacts according to UL	A600 / Q600
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: 125 A
ull/CSA ratings contact rating of auxiliary contacts according to Ull 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	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	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 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			
 for auxiliary and control circuit 		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)			
 solid or stranded 		2x (1 10 mm²)			
 finely stranded with core end processing 		2x (1 6 mm²)			
 finely stranded without core end processing 	9	2x (1 6 mm²)			
type of connectable conductor cross-sections	i				
 for auxiliary contacts 					
— solid or stranded		2x (0.5 2.5 mm²)			
 finely stranded with core end process 	ing	2x (0.5 1.5 mm²)			
 finely stranded without core end proce 	essing	2x (0.5 1.5 mm²)			
 for AWG cables for auxiliary contacts 		2x (20 14)			
Safety related data					
B10 value with high demand rate according to SN	I 31920	1 000 000			
proportion of dangerous failures					
with low demand rate according to SN 31920		40 %			
with high demand rate according to SN 319	920	75 %			
failure rate [FIT] 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

Further information

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=3RA2426-8XF32-2AG2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2426-8XF32-2AG2

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2426-82

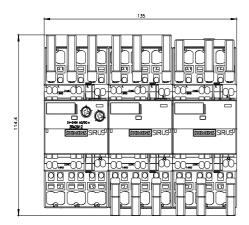
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

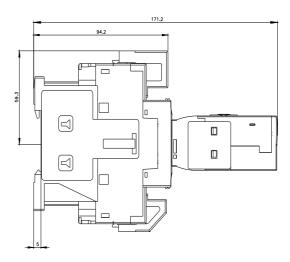
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2426-8XF32-2AG2&lang=en

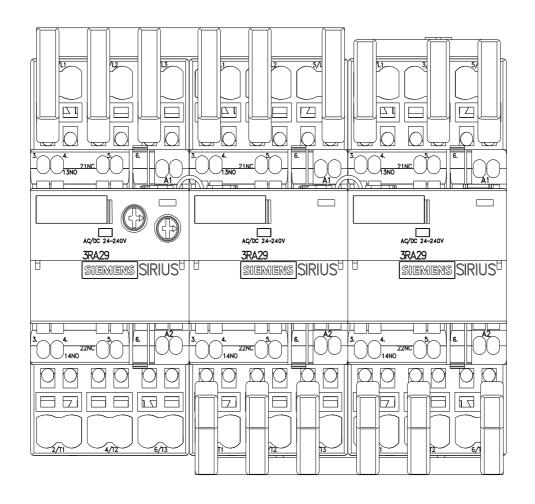
Characteristic: Tripping characteristics, I2t, Let-through current

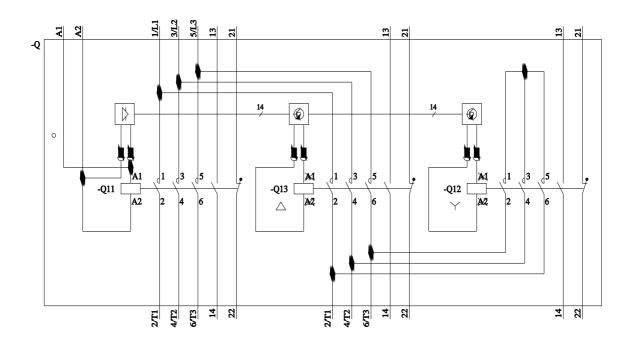
https://support.industry.siemens.com/cs/ww/en/ps/3RA2426-8XF32-2

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2426-8XF32-2AG2&objecttype=14&gridview=view1









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