## **SIEMENS**

## **Data sheet**

3RA2435-8XF32-1AL2

Contactor assembly for star-delta (wye-delta) start AC-3, 37 kW/400 V, 230 V AC 50/60 Hz, 3-pole, size S2 screw 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	3RT2035-1AL20		
2 of the supplied contactor	3RT2035-1AL20		
3 of the supplied contactor	3RT2027-1AL20		
<ul> <li>of the supplied RS assembly kit</li> </ul>	3RA2933-2C		
• of the supplied function module for wye-delta circuits	3RA2816-0EW20		
General technical data			
size of contactor	S2		
product extension auxiliary switch	No		
shock resistance at rectangular impulse			
• at AC	11.8g / 5 ms, 7.4g / 10 ms		
shock resistance with sine pulse			
• at AC	18.5g / 5 ms, 11.6g / 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)	10/01/2014		
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8		
Weight	3.274 kg		
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	80 A		
operating power			
• at AC-3			

— at 400 V rated value	37 kW		
operating frequency			
• at AC-3 maximum	1 000 1/h		
Control circuit/ Control			
type of voltage of the control supply voltage	AC		
control supply voltage 1 at AC			
<ul> <li>at 50 Hz rated value</li> </ul>	230 V		
at 60 Hz rated value	230 V		
operating range factor control supply voltage rated value of magnet coil at AC			
● at 50 Hz	0.8 1.1		
• at 60 Hz	0.85 1.1		
apparent pick-up power of magnet coil at AC			
• at 50 Hz	422 VA		
• at 60 Hz	378 VA		
inductive power factor with closing power of the coil  • at 50 Hz	0.69		
• at 60 Hz	0.65		
apparent holding power of magnet coil at AC	0.03		
apparent nothing power of magnet con at AC     at 50 Hz	36.4 VA		
• at 60 Hz	35 VA		
inductive power factor with the holding power of the coil	33 VA		
• at 50 Hz	0.36		
• at 60 Hz	0.39		
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			
contact rating of auxiliary contacts according to UL	A600 / Q600		
	A600 / Q600		
contact rating of auxiliary contacts according to UL	A600 / Q600		
contact rating of auxiliary contacts according to UL Short-circuit protection	A600 / Q600		
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: 160 A		
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: 160 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 80 A		
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  • for short-circuit protection of the auxiliary switch required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 160 A		
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— upwards	10 mm			
— downwards	10 mm			
— at the side	10 mm			
Connections/ Terminals				
type of electrical connection				
<ul> <li>for main current circuit</li> </ul>	screw-type terminals			
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals			
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals			
of magnet coil	Screw-type terminals			
type of connectable conductor cross-sections for main contacts				
• solid	2x (1 35 mm²), 1x (1 50 m	m²)		
<ul> <li>solid or stranded</li> </ul>	2x (1 35 mm²), 1x (1 50 mm²)			
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 25 mm²), 1x (1 35 mm²)			
type of connectable conductor cross-sections				
<ul> <li>for auxiliary contacts</li> </ul>				
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)			
Safety related data				
product function suitable for safety function	Yes			
Electrical Safety				
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			
Approvals Certificates				
General Product Approval		Test Certificates	Marine / Shipping	

EG-KOHE.



Confirmation



Type Test Certificates/Test Report



other Dangerous goods Environment

Confirmation Transport Information Environmental Con-

**firmations** 

## Further information

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=3RA2435-8XF32-1AL2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2435-8XF32-1AL2

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2435-8XF32-1AL2

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

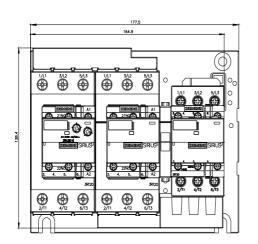
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RA2435-8XF32-1AL2\&lang=en}}$ 

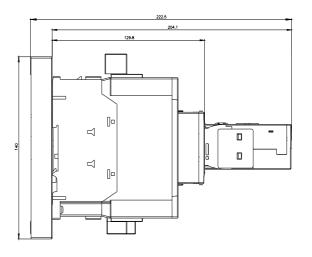
Characteristic: Tripping characteristics, I²t, Let-through current

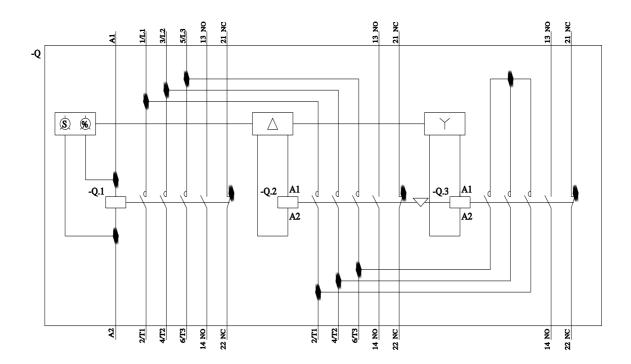
https://support.industry.siemens.com/cs/ww/en/ps/3RA2435-8XF32-1AL2/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2435-8XF32-1AL2&objecttype=14&gridview=view1







last modified: 7/9/2024 🖸

