SIEMENS

Data sheet

3RA2416-8XF31-1AP0

Contactor assembly for star-delta (wye-delta) start AC-3, 7.5 kW/400 V, 230 V AC 50/60 Hz, 3-pole, Size S00 screw terminals electrical and mechanical interlock 3 NO integrated



product designation Contactor assembly for star-delta (wye-delta) start product type designation 3RA24	product brand name	SIRIUS
manufacturer's article number 1 of the supplied contactor 2 of the supplied contactor 38T2017-1AP01 38T2015-1AP01 38T2015-1AP01 38T2015-1AP01 of the supplied function module for wye-delta circuits 38A2313-2BB1 of the supplied function module for wye-delta circuits 38A2313-2BB1 of the supplied function module for wye-delta circuits 38A2313-2BB1 38A2313-2	product designation	Contactor assembly for star-delta (wye-delta) start
1 of the supplied contactor 2 of the supplied contactor 3 of the supplied contactor 5 of the supplied Contactor 6 of the supplied function module for wye-delta circuits 7 of the supplied function module for wye-delta circuits 8 of the supplied function module for wye-delta circuits 8 of the supplied function module for wye-delta circuits 8 of contactor 9 contactor 9 contactor 9 contactor 9 contactor 1 contactor 1 contactor 1 contactor 2 contactor 2 contactor 3 contactor 3 contactor 4 contactor 5 contactor 5 contactor 5 contactor 6 contactor 6 contactor 6 contactor bytical 6 contactor bytical 7 contactor bytical 7 contactor bytical 8 contactor contactor 9 contactor bytical 9 contactor contactor (bate) 1 contactor contactor contactor (bate) 1 contactor contactor contactor (bate) 1 contactor contac	product type designation	3RA24
2 of the supplied contactor 3 of the supplied contactor 4 of the supplied contactor 5 of the supplied Rassembly kit 5 of the supplied Function module for wye-delta circuits 8 38A2913-28B1 8 38A2913-28B1 8 38A2913-28B1 8 38A2816-0EW20 Contract technical data Size of contactor product extension auxiliary switch No shock resistance at rectangular impulse 4 at AC 5 of 7,5 ms, 4,2g / 10 ms 6 of 7g / 5 ms, 4,2g / 10 ms 6 of 7g / 5 ms, 4,2g / 10 ms 8 of AB DC 8 of AB DC 8 of AB DC 9 of Contactor with sine pulse 9 of AB DC 10,5g / 5 ms, 6,6g / 10 ms 9 of contactor with added auxiliary switch block typical 9 of the contactor with added auxiliary switch block typical 10 000 000 10 of the contactor with added auxiliary switch block typical 10 000 000 10 of the contactor with added auxiliary switch block typical 10 000 000 10 of the contactor with added auxiliary switch block typical 10 000 000 10 of the contactor with added auxiliary switch block typical 10 of the contactor with added auxiliary switch block typical 10 000 000 10 of the contactor with added auxiliary switch block typical 10 000 000 10 of the contactor	manufacturer's article number	
• 3 of the supplied contactor • of the supplied RS assembly kit • of the supplied function module for wye-delta circuits 3RA2913-2RB1 3RA2916-0EW20 General technical data size of contactor product extension auxiliary switch shock resistance at rectangular impulse • at AC • at DC	 1 of the supplied contactor 	3RT2017-1AP01
of the supplied RS assembly kit of the supplied function module for wye-delta circuits SRA2816-DEW20	 2 of the supplied contactor 	<u>3RT2017-1AP01</u>
of the supplied function module for wye-delta circuits Size of contactor	• 3 of the supplied contactor	<u>3RT2015-1AP01</u>
Size of contactor	 of the supplied RS assembly kit 	3RA2913-2BB1
size of contactor product extension auxiliary switch shock resistance at rectangular impulse at AC at DC at DC at DC at DC at DC at DC bock resistance with sine pulse at AC at DC bock resistance with sine pulse at AC at DC at DC at DC at DC bock resistance with sine pulse at DC at DC bock resistance with sine pulse at DC at DC bock resistance with sine pulse at AC bock resistance with sine pulse bock resistance with sine pulse at AC bock resistance with sine pulse bock resistance with set AC bock resistance with sine pulse bock resistance with set AC bock resistance with set AC bock resistance	 of the supplied function module for wye-delta circuits 	3RA2816-0EW20
product extension auxiliary switch shock resistance at rectangular impulse • at AC • at DC shock resistance with sine pulse • at AC • at DC shock resistance with sine pulse • at AC • at DC • of the contactor life (operating cycles) • of contactor typical • of the contactor with added auxiliary switch block typical • of the contactor with added au	General technical data	
shock resistance at rectangular impulse • at AC • at DC 6,7g / 5 ms, 4,2g / 10 ms shock resistance with sine pulse • at AC • at AC • at DC 10,5g / 5 ms, 6,6g / 10 ms • at DC mechanical service life (operating cycles) • of contactor typical • of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Qu Substance Prohibitance (Date) SVHC substance name Lead -7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Weight 1.08 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage -25 +60 °C -40 uring storage -55 +80 °C Main circuit number of NC contacts for main current circuit number of NC contacts for main contacts operating voltage • at AC-3 rated value maximum 690 V operational current • at AC-3	size of contactor	S00
at AC at DC at AC	product extension auxiliary switch	No
at DC shock resistance with sine pulse at AC at DC to shock resistance with sine pulse at DC to start	shock resistance at rectangular impulse	
shock resistance with sine pulse at AC at DC 10,5g / 5 ms, 6,6g / 10 ms 10,000 000 of contactor typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Weight 1.08 kg Ambient conditions installation altitude at height above sea level maximum of uring operation of uring operation of uring storage 4.55 +60 °C -55 +80 °C Main circuit number of NO contacts for main contacts number of NO contacts for main contacts operating voltage of the Contacts of the contact of the c	• at AC	6,7g / 5 ms, 4,2g / 10 ms
at AC at DC	• at DC	6,7g / 5 ms, 4,2g / 10 ms
at DC mechanical service life (operating cycles) of contactor typical of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Weight 1.08 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation oduring storage -55 +80 °C Main circuit number of NO contacts for main contacts number of NC contacts for main contacts operating voltage of AC-3 rated value maximum of AC-3	shock resistance with sine pulse	
mechanical service life (operating cycles) of contactor typical of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Weight 1.08 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation oduring storage -25 +60 °C oduring storage -55 +80 °C Main circuit number of NO contacts for main contacts number of NO contacts for main contacts number of NC contacts for main contacts operating voltage of at AC-3 rated value maximum of NO coperation current of AC-3	• at AC	10,5g / 5 ms, 6,6g / 10 ms
of contactor typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Weight Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation during storage 40 °C Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operating voltage at AC-3 rated value maximum 690 V operational current at AC-3	• at DC	10,5g / 5 ms, 6,6g / 10 ms
of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Weight 1.08 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature ouring operation during storage during storage -55 +80 °C Main circuit number of NO contacts for main current circuit number of NC contacts for main contacts operating voltage at AC-3 rated value maximum of NO corrects at AC-3 O O O O O O O O O O O O O	mechanical service life (operating cycles)	
reference code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Weight 1.08 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage -25 +60 °C • during storage -55 +80 °C Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operating voltage • at AC-3 rated value maximum • at AC-3	 of contactor typical 	10 000 000
Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Weight 1.08 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage 25 +60 °C • during storage 7-25 +80 °C Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operating voltage • at AC-3 rated value maximum • at AC-3	of the contactor with added auxiliary switch block typical	10 000 000
SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Weight 1.08 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage -25 +60 °C • during storage -55 +80 °C Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operating voltage • at AC-3 rated value maximum 690 V operational current • at AC-3	reference code according to IEC 81346-2	Q
Lead monoxide (lead oxide) - 1317-36-8 Weight 1.08 kg Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature • during operation • during storage -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	Substance Prohibitance (Date)	10/01/2009
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage -25 +60 °C • during storage Ambient circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operating voltage • at AC-3 rated value maximum 690 V operational current • at AC-3	SVHC substance name	
installation altitude at height above sea level maximum ambient temperature during operation during storage -25 +60 °C during storage -55 +80 °C Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operating voltage at AC-3 rated value maximum 690 V operational current at AC-3	Weight	1.08 kg
ambient temperature • during operation • during storage -25 +60 °C • during storage -55 +80 °C Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operating voltage • at AC-3 rated value maximum • at AC-3	Ambient conditions	
 during operation during storage -25 +60 °C Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operating voltage at AC-3 rated value maximum operational current at AC-3 	installation altitude at height above sea level maximum	2 000 m
 during storage -55 +80 °C Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operating voltage at AC-3 rated value maximum operational current at AC-3 	ambient temperature	
number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operating voltage • at AC-3 rated value maximum • at AC-3	during operation	-25 +60 °C
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 • at AC-3	during storage	-55 +80 °C
number of NO contacts for main contacts number of NC contacts for main contacts operating voltage • at AC-3 rated value maximum operational current • at AC-3	Main circuit	
number of NC contacts for main contacts operating voltage • at AC-3 rated value maximum operational current • at AC-3	number of poles for main current circuit	3
operating voltage • at AC-3 rated value maximum operational current • at AC-3	number of NO contacts for main contacts	3
• at AC-3 rated value maximum operational current • at AC-3	number of NC contacts for main contacts	0
operational current • at AC-3	operating voltage	
• at AC-3	at AC-3 rated value maximum	690 V
	operational current	
— at 400 V rated value 16 A	• at AC-3	
	— at 400 V rated value	16 A

operating power	
• at AC-3	
— at 400 V rated value	7.5 kW
— at 500 V rated value	10.3 kW
— at 690 V rated value	9.2 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	
at 50 Hz rated value	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	0.00 1.1
• at 50 Hz	76 VA
• at 60 Hz	68 VA
inductive power factor with closing power of the coil	00 V/1
at 50 Hz	0.8
	0.75
• at 60 Hz	0.10
apparent holding power of magnet coil at AC • at 50 Hz	13.4.1/4
	13.4 VA
• at 60 Hz	10.8 VA
inductive power factor with the holding power of the coil	0.05
• at 50 Hz	0.25
• at 60 Hz	0.25
Auxiliary circuit	
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	
UL/CSA ratings contact rating of auxiliary contacts according to UL	< 1 error per 100 million operating cycles 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: 35 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: 35 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 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 • for short-circuit protection of the auxiliary switch required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 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 • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and
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 • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
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 • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail
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 • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail 68 mm
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 Installation/ mounting/ dimensions mounting position fastening method height width	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail 68 mm 135 mm
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 • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail 68 mm 135 mm
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 Installation/ mounting/ dimensions mounting position fastening method height width depth	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail 68 mm 135 mm
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 • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail 68 mm 135 mm 145 mm
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 • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail 68 mm 135 mm 145 mm 6 mm 0 mm
UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail 68 mm 135 mm 145 mm 6 mm 6 mm
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 • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail 68 mm 135 mm 145 mm 6 mm 0 mm 6 mm 6 mm
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 • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — downwards — at the side	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail 68 mm 135 mm 145 mm 6 mm 0 mm 6 mm
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 • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail 68 mm 135 mm 145 mm 6 mm 6 mm 6 mm 6 mm 6 mm
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 Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail 68 mm 135 mm 145 mm 6 mm 6 mm 6 mm 6 mm 6 mm
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 Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — backwards — backwards — backwards — backwards	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail 68 mm 135 mm 145 mm 6 mm 6 mm 6 mm 6 mm 6 mm 7 mm 6 mm 9 mm
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 Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — at the side • for grounded parts — forwards — backwards — backwards — backwards — at the side • for grounded parts — forwards — backwards — backwards — backwards — upwards	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail 68 mm 135 mm 145 mm 6 mm 6 mm 6 mm 6 mm 6 mm 6 mm 6 mm
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 Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — at the side • for grounded parts — forwards — backwards — backwards — upwards — at the side	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail 68 mm 135 mm 145 mm 6 mm 6 mm 6 mm 6 mm 6 mm 6 mm 6 mm
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 Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — at the side • for grounded parts — forwards — backwards — backwards — backwards — at the side • for grounded parts — forwards — backwards — backwards — backwards — upwards	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A fuse gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail 68 mm 135 mm 145 mm 6 mm 6 mm 6 mm 6 mm 6 mm 6 mm 6 mm

— forwards	6 mm
— backwards	0 mm
— upwards	6 mm
— downwards	6 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
 for main current circuit 	screw-type terminals
 for auxiliary and control circuit 	screw-type terminals
 at contactor for auxiliary contacts 	Screw-type terminals
of magnet coil	Screw-type terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
 solid or stranded 	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (0,5 4 mm²)
finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
type of connectable conductor cross-sections	
 for auxiliary contacts 	
 — solid or stranded 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG cables for auxiliary contacts 	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

General Product Approval

Approvals Certificates



Confirmation



Type Test Certificates/Test Report

Test Certificates

Special Test Certificate

Marine / Shipping













other Railway Environment

<u>Confirmation</u> <u>Special Test Certificate</u> <u>Environmental Confirmations</u> <u>ate</u> <u>Firmations</u>

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=3RA2416-8XF31-1AP0

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2416-8XF31-1APO} \\ \underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2416-8XF31-1APO} \\ \underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2416-8XF31-1APO} \\ \underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2416-8XF31-1APO} \\ \underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2416-8XF31-1APO} \\ \underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2416-8XF31-1APO} \\ \underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2416-8XF31-1APO} \\ \underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx.lang=en\&mlfb=3RA2416-8XF31-1APO} \\ \underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx.lang=en\&mlfb=3RA2416-8XF31-1APO} \\ \underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx.lang=en\&mlfb=3RA2416-8XF31-1APO} \\ \underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.automation.sieme$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2416-8XF31-1AP0

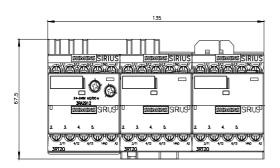
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2416-8XF31-1AP0&lang=en

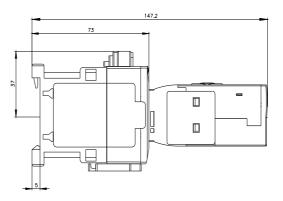
Characteristic: Tripping characteristics, I2t, Let-through current

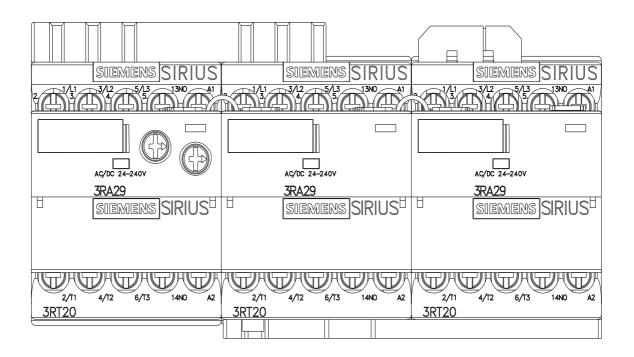
https://support.industry.siemens.com/cs/ww/en/ps/3RA2416-8XF31-1AP0/char

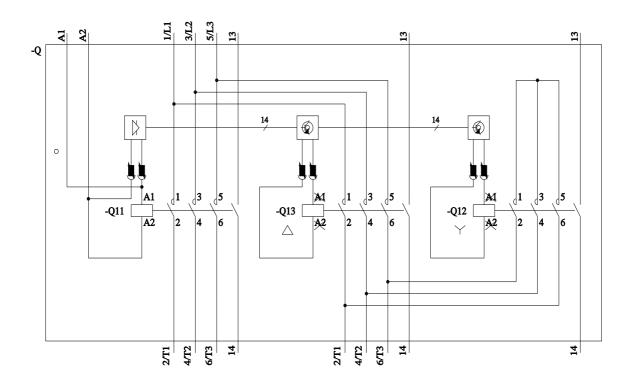
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2416-8XF31-1AP0&objecttype=14&gridview=view1









last modified: 7/9/2024 🖸