Data sheet 3RT1064-2XJ46-0LA2



power contactor, AC-3e/AC-3 225 A, 110 kW / 400 V Uc: 72 V DC x (0.7-1.25) PLC input 24-110 V DC 3-pole, auxiliary contacts 2 NO + 2 NC drive: electronic main circuit: busbar control and auxiliary circuit: spring-loaded terminal extended rated condition railroad IEC 60077

product brand name	SIRIUS
product designation	Power contactor
design of the product	With extended operating range
product type designation	3RT1
General technical data	
size of contactor	S10
product extension	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
at AC in hot operating state	51 W
 at AC in hot operating state per pole 	17 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
• of auxiliary circuit with degree of pollution 3 rated value	500 V
surge voltage resistance	
 of main circuit rated value 	8 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	690 V
shock resistance for railway applications according to EN 61373	Category 1, Class B
shock resistance at rectangular impulse	
• at DC	8,5g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at DC	13,4g / 5 ms, 6,5g / 10 ms
mechanical service life (operating cycles)	
of contactor typical	10 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
of the contactor with added auxiliary switch block typical	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	09/06/2016
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7 Perfluorobutane sulfonic acid (PFBS) and its salts
Weight	6.58 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-40 +70 °C

during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
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
	O
operating voltageat AC-3 rated value maximum	1 000 V
at AC-3 rated value maximum at AC-3e rated value maximum	1 000 V
operational current	1 000 V
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	275 A
 at AC-1 — up to 690 V at ambient temperature 40 °C rated value 	275 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	250 A
— up to 1000 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	100 A
• at AC-2 at 400 V rated value	225 A
• at AC-3	
— at 400 V rated value	225 A
— at 500 V rated value	225 A
— at 690 V rated value	225 A
— at 1000 V rated value	68 A
• at AC-3e	
— at 400 V rated value	225 A
— at 500 V rated value	225 A
— at 1000 V rated value	68 A
at AC-4 at 400 V rated value minimum areas section in main singuit	195 A
minimum cross-section in main circuit • at maximum AC-1 rated value	150 mm²
at maximum AC-1 rated value at maximum Ith rated value	150 mm²
operational current for approx. 200000 operating cycles at AC-4	130 11111
at 400 V rated value	96 A
at 690 V rated value	85 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	200 A
— at 110 V rated value	18 A
— at 220 V rated value	3.4 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.5 A
• with 2 current paths in series at DC-1	
— at 24 V rated value	200 A
— at 110 V rated value	200 A
— at 220 V rated value	20 A
— at 440 V rated value	3.2 A
— at 600 V rated value	1.6 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	200 A
— at 110 V rated value	200 A
— at 220 V rated value	200 A
— at 440 V rated value	11.5 A
— at 600 V rated value	4 A
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	200 A
— at 110 V rated value	2.5 A
— at 220 V rated value	0.6 A

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— at 440 V rated value	0.17 A
— at 600 V rated value	0.12 A
with 2 current paths in series at DC-3 at DC-5	
— at 24 V rated value	200 A
— at 110 V rated value	200 A
— at 220 V rated value	2.5 A
— at 440 V rated value	0.65 A
— at 600 V rated value	0.37 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	200 A
— at 110 V rated value	200 A
— at 220 V rated value	200 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
 at AC-2 at 400 V rated value 	110 kW
• at AC-3	
— at 230 V rated value	73 kW
— at 400 V rated value	110 kW
— at 500 V rated value	160 kW
— at 690 V rated value	200 kW
— at 1000 V rated value	90 kW
• at AC-3e	
— at 230 V rated value	73 kW
— at 400 V rated value	110 kW
— at 500 V rated value	160 kW
— at 1000 V rated value	90 kW
operating power for approx. 200000 operating cycles at AC-	
4	
at 400 V rated value	54 kW
at 690 V rated value	82 kW
short-time withstand current in cold operating state up to 40 °C	
limited to 1 s switching at zero current maximum	4 000 A; Use minimum cross-section acc. to AC-1 rated value
	2 807 A; Use minimum cross-section acc. to AC-1 rated value
Ilmited to 5 s switching at zero current maximum	2 082 A; Use minimum cross-section acc. to AC-1 rated value
Ilmited to 10 s switching at zero current maximum	1 397 A; Use minimum cross-section acc. to AC-1 rated value
Ilimited to 30 s switching at zero current maximum	
Iimited to 60 s switching at zero current maximum	1 144 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	700 1/h
• at DC	700 1/11
operating frequency	700 1/b
• at AC-1 maximum	700 1/h
• at AC-2 maximum	250 1/h
• at AC-3 maximum	500 1/h
• at AC-3e maximum	500 1/h
• at AC-2 at AC-3e maximum	250 1/h
• at AC-4 maximum	130 1/h
operating frequency	
• at DC-1 maximum	350 1/h
• at DC-3 maximum	250 1/h
• at DC-5 maximum	250 1/h
Ratings for railway applications	
thermal current (Ith) up to 690 V	
 up to 40 °C according to IEC 60077 rated value 	275 A
up to 70 °C according to IEC 60077 rated value	215 A
Control circuit/ Control	
type of voltage	DC
type of voltage of the control supply voltage	DC
control supply voltage at DC rated value	72 V
operating range factor control supply voltage rated value of	
magnet coil at DC	

* Interactive Value 1.25 Consumed current at PLC-control input according to IEC 2 mA 2	● initial value	0.7
Consumed current at PLC-control input according to IEC		
design of the surge suppressor with varietor closing power of magnet coil at DC 580 W	consumed current at PLC-control input according to IEC	
design of the surge suppressor with variator closing power of magnet coil at DC	voltage at PLC-control input	24 110 V
Closing power of magnet coll at DC		with varistor
Colong delay	closing power of magnet coil at DC	580 W
## at DC opening delay ## at DC arcing time control version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable) ## Auxiliary circuit number of NC contacts for auxiliary contacts ## instantianeous contact 2	holding power of magnet coil at DC	3.4 W
opening delay * at DC * arching time control version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable) Auxiliary circuit number of NC contacts for auxiliary contacts * instantaneous contact 2 * instantaneous contact 2 * instantaneous contact 3 * operational current at AC-12 maximum 10 A	closing delay	
# at DC # arcing time	• at DC	45 80 ms
arcing time	opening delay	
Control version of the switch operating mechanism	• at DC	80 100 ms
Auxiliary circuit number of NC contacts for auxillary contacts instantaneous contact 2 number of NO contacts for auxillary contacts instantaneous contact 2 operational current at AC-12 maximum 10 A operational current at AC-12 maximum 10 A operational current at AC-15 it at 30 V rated value it 30	arcing time	10 15 ms
number of NC contacts for auxiliary contacts 2 instantaneous contact 2 instantaneous contact 2 instantaneous contact 2 instantaneous contact 2 operational current at AC-15 2 instantaneous contact 2 operational current at AC-15 in 230 V rated value 3 A in 4500 V rated value 2 A operational current at AC-12 in 2124 V rated value 3 A in 48 V rated value 6 A in 48 V rated value 6 A in 48 V rated value 6 A in 41 10 V rated value 6 A in 41 10 V rated value 3 A in 41 20 V rated value 3 A in 41 20 V rated value 4 A in 41 20 V rated value 5 A in 41 20 V rated value 1 A in 42 V rated value 1 A in 42 V rated value 1 A in 42 V rated value 0.15 A operational current at DC-13 in 41 24 V rated value 2 A in 41 60 V rated value 3 A in 41 60	control version of the switch operating mechanism	PLC-IN or Standard A1 - A2 (adjustable)
• instantaneous contact 2 2 2 2 2 2 2 2 2	Auxiliary circuit	
number of NO contacts for auxiliary contacts 2	number of NC contacts for auxiliary contacts	2
• instantaneous contact 2	• instantaneous contact	2
Operational current at AC-12 maximum	number of NO contacts for auxiliary contacts	2
Departational current at AC-15	instantaneous contact	2
at 230 V rated value	operational current at AC-12 maximum	10 A
at 400 V rated value	operational current at AC-15	
• at 500 V rated value 2 A	• at 230 V rated value	6 A
A	 at 400 V rated value 	3 A
• at 24 V rated value	at 500 V rated value	2 A
### at 48 V rated value	operational current at DC-12	
at 160 V rated value	• at 24 V rated value	10 A
* at 110 V rated value	 at 48 V rated value 	6 A
	 at 60 V rated value 	6 A
	 at 110 V rated value 	3 A
• at 600 V rated value 0.15 A operational current at DC-13 • at 24 V rated value 6 A • at 48 V rated value 2 A • at 60 V rated value 1 A • at 110 V rated value 0.9 A • at 110 V rated value 0.9 A • at 1220 V rated value 0.3 A • at 220 V rated value 0.1 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 182 A yielded mechanical performance [hp] • for 3-phase AC motor — at 200/208 V rated value 182 A yielded mechanical performance [hp] • for 3-phase AC motor — at 200/208 V rated value 50 hp — at 220/230 V rated value 50 hp — at 250/230 V rated value 150 hp — at 460/480 V rated value 200 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection No design of the fuse link • for short-circuit protection of the main circuit — with type of assignment 2 required GG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA), efor short-circuit protection of the auxiliary switch required GG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA), efor short-circuit protection of the auxiliary switch required GG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA), efor short-circuit protection of the auxiliary switch required GG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA), efor short-circuit protection of the auxiliary switch required GG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA), efor short-circuit protection of the auxiliary switch required GG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA), efor short-circuit protection of the auxiliary switch required GG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA), efor short-circuit protection of the auxiliary switch required GG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)	• at 125 V rated value	2 A
operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 800 V rated value • at 800 V rated value • at 480 V rated value • at 200 V rated value • at 800 V rated value • at 800 V rated value • at 800 V rated value • at 600 V rated value • at 200/208 V rated value • at 200/208 V rated value • at 200/208 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 60/480 V rated value • 200 hp contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection A600 / G600 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 main circuit • with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required	 at 220 V rated value 	1 A
at 24 V rated value at 48 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 1125 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 220 V rated value at 280 V rated value at 480 V rated value at 500 V rated value at 200/208 V rated value at 200/208 V rated value at 200/208 V rated value at 460/480 V rated value at 460/480 V rated value at 460/480 V rated value at 4575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection No design of the fuse link of or short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required of or short-circuit protection of the auxiliary switch required of or short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	at 600 V rated value	0.15 A
• at 48 V rated value • at 60 V rated value • at 110 V rated value • at 1125 V rated value • at 1220 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • 0.1 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 200/208 V rated value • at 220/208 V rated value • at 480480 V rated value • at 80040 V rated value • at 575/600 V rated value • at 60040 V rated value • at 20020 V rated value • at 60040 V rated value •	operational current at DC-13	
at 10 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 600 V rated value terror or 3-phase AC motor - at 200/208 V rated value - at 220/230 V rated value - at 220/230 V rated value - at 460/480 V rated value - at 460/480 V rated value - at 575/600 V rated value - at 575/600 V rated value - ontact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the fuse link of or short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required of or short-circuit protection of the auxiliary switch required of or short-circuit protection of the auxiliary switch required of or short-circuit protection of the auxiliary switch required of or short-circuit protection of the auxiliary switch required of or short-circuit protection of the auxiliary switch required of or short-circuit protection of the auxiliary switch required of or short-circuit protection of the auxiliary switch required of or short-circuit protection of the auxiliary switch required of or short-circuit protection of the auxiliary switch required of or short-circuit protection of the auxiliary switch required of or short-circuit protection of the auxiliary switch required of or short-circuit protection of the auxiliary switch required of or short-circuit protection of the auxiliary switch required of or short-circuit protection of the auxiliary switch required of or short-circuit protection of the auxiliary switch required of or short-circuit protection of the auxiliary switch required of or short-circuit protection of the auxiliary switch required of or short-circuit protection of the auxiliary switch required of or short-circuit protection of the auxiliary switch required of or short-circuit protecti	• at 24 V rated value	6 A
 at 110 V rated value at 125 V rated value 0.9 A at 220 V rated value 0.3 A at 600 V rated value 0.1 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 180 A at 600 V rated value for 3-phase AC motor at 200/208 V rated value for 3-phase AC motor at 220/230 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value at 575/600 V rated value 200 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection product function short circuit protection design of the fuse link of or short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required gG: 500 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) of or short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions	• at 48 V rated value	2 A
at 125 V rated value at 220 V rated value at 600 V rated value 0.1 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 180 A at 600 V rated value 182 A yielded mechanical performance [hp] of or 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value 200 hp contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the fuse link of or short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required of of short-circuit protection of the auxiliary switch required of of short-circuit protection of the auxiliary switch required of of short-circuit protection of the auxiliary switch required of of short-circuit protection of the auxiliary switch required of of short-circuit protection of the auxiliary switch required of of short-circuit protection of the auxiliary switch required of of short-circuit protection of the auxiliary switch required of of short-circuit protection of the auxiliary switch required of of short-circuit protection of the auxiliary switch required of of short-circuit protection of the auxiliary switch required of of short-circuit protection of the auxiliary switch required of of short-circuit protection of the auxiliary switch required of of short-circuit protection of the auxiliary switch required of of short-circuit protection of the auxiliary switch required of of short-circuit protection of the auxiliary switch required of of short-circuit protection of the auxiliary switch required of of short-circuit protection of the auxiliary switch required of of short-circuit protection of the auxiliary switch required	at 60 V rated value	2 A
at 220 V rated value at 600 V rated value 0.1 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 180 A at 600 V rated value 182 A yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value 60 hp at 220/230 V rated value 75 hp at 460/480 V rated value 150 hp at 575/600 V rated value 200 hp contact rating of auxiliary contacts according to UL Short-circuit protection product function 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 for short-circuit protection of the auxiliary switch required gG: 500 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions	at 110 V rated value	1 A
at 600 V rated value UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value befor 3-phase AC motor - at 200/208 V rated value - at 220/230 V rated value - at 220/230 V rated value - at 460/480 V rated value - at 450/480 V rated value - at 575/600 V rated value 200 hp contact rating of auxiliary contacts according to UL Short-circuit protection product function 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 for short-circuit protection of the auxiliary switch required gG: 500 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions	• at 125 V rated value	0.9 A
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function 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 • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required GG: 10 A (500 V, 1 kA)	• at 220 V rated value	0.3 A
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 182 A yielded mechanical performance [hp] • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — 200 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection product function 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 • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions	at 600 V rated value	0.1 A
* at 480 V rated value * at 600 V rated value * to 73-phase AC motor * at 220/230 V rated value * at 460/480 V rated value * at 575/600 V rated value * at 57	UL/CSA ratings	
* at 600 V rated value yielded mechanical performance [hp] * for 3-phase AC motor * — at 200/208 V rated value * — at 220/230 V rated value * — at 460/480 V rated value * — at 575/600 V rated value * — ontact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection product function short circuit protection No 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 * for short-circuit protection of the auxiliary switch required * of or short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	full-load current (FLA) for 3-phase AC motor	
yielded mechanical performance [hp] • for 3-phase AC motor — at 200/208 V rated value 60 hp — at 220/230 V rated value 75 hp — at 460/480 V rated value 150 hp — at 575/600 V rated value 200 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection product function short circuit protection No design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required gG: 500 A (690 V, 100 kA) — with type of assignment 2 required gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions	• at 480 V rated value	180 A
for 3-phase AC motor — at 200/208 V rated value		182 A
- at 200/208 V rated value - at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value - at 575/600 V rated value 200 hp contact rating of auxiliary contacts according to UL Short-circuit protection product function 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 • for short-circuit protection of the auxiliary switch required gG: 500 A (690 V, 100 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions	yielded mechanical performance [hp]	
- at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value 200 hp contact rating of auxiliary contacts according to UL Short-circuit protection product function 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 • for short-circuit protection of the auxiliary switch required of the function 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 - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required	• for 3-phase AC motor	
- at 460/480 V rated value - at 575/600 V rated value 200 hp contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection Mo 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 • for short-circuit protection of the auxiliary switch required gG: 500 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)	— at 200/208 V rated value	60 hp
- at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection No 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 of the fuse link gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) of the fuse link gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) of the fuse link gG: 400 A (690 V, 100 kA) of the fuse link gG: 400 A (690 V, 100 kA) of the fuse link of the fuse link gG: 400 A (690 V, 100 kA) of the fuse link of the fuse link gG: 400 A (690 V, 100 kA) of the fuse link of the fuse link gG: 400 A (690 V, 100 kA) of the fuse link	— at 220/230 V rated value	75 hp
contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection No 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 of the fuse link gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) of the fuse link gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) Installation/ mounting/ dimensions	— at 460/480 V rated value	150 hp
Short-circuit protection product function 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 • for short-circuit protection of the auxiliary switch required gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions	— at 575/600 V rated value	200 hp
product function 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 of the fuse link gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) of the fuse link gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) of the fuse link gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) of the fuse link of the fuse link of the fuse link gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) of the fuse link of the fuse link of the fuse link of the fuse link of the main circuit gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA) of the fuse link of the fuse link of the fuse link of the fuse link of the main circuit gG: 400 A (690 V, 100 kA) of the fuse link of the main circuit of the main circuit gG: 400 A (690 V, 100 kA) of the fuse link of the		A600 / Q600
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: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions	Short-circuit protection	
for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required	product function short circuit protection	No
— with type of coordination 1 required gG: 500 A (690 V, 100 kA) — with type of assignment 2 required gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 100 kA) gG: 10 A (500 V, 1 kA)	design of the fuse link	
— with type of assignment 2 required gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions	 for short-circuit protection of the main circuit 	
• for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions	 — with type of coordination 1 required 	gG: 500 A (690 V, 100 kA)
• for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions	 — with type of assignment 2 required 	
Installation/ mounting/ dimensions	for the state of t	
		gg: 10 A (500 V, 1 kA)
mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface		
	mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface

	+/- 22.5° tiltable to the front and back
fastening method side-by-side mounting	Yes
fastening method	screw fixing
height	210 mm
width	145 mm
depth	202 mm
required spacing	
with side-by-side mounting	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
for grounded parts	
— forwards	20 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
for live parts	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
 for auxiliary and control circuit 	spring-loaded terminals
width of connection bar	25 mm
thickness of connection bar	6 mm
diameter of holes	11 mm
number of holes	1
type of connectable conductor cross-sections for main contacts	
solid or stranded	2x (70 240 mm²)
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid	2x (0.25 2.5 mm²)
— solid or stranded	2x (0,25 2,5 mm²)
 finely stranded with core end processing 	2x (0.25 1.5 mm²)
 finely stranded without core end processing 	2x (0.25 2.5 mm²)
for AWG cables for auxiliary contacts	2x (24 14)
AWG number as coded connectable conductor cross section	
for auxiliary contacts	24 14
Safety related data	
product function	
 mirror contact according to IEC 60947-4-1 	Yes
 positively driven operation according to IEC 60947-5-1 	No
suitable for safety function	Yes
suitability for use safety-related switching OFF	Yes; safety-related disconnection via A1 A2
service life maximum	20 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
with high demand rate according to SN 31920	73 %
B10 value with high demand rate according to SN 31920	1 000 000
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
ISO 13849	
device type according to ISO 13849-1	3
device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary	3 Yes

Electrical Safety	
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover
Communication/ Protocol	
product function bus communication	No
Approvals Certificates	

General Product Approval



Confirmation







<u>KC</u>

General Product Approval

EMV

Functional Saftey

Test Certificates

other





Type Examination Certificate

Special Test Certificate Type Test Certificates/Test Report

Miscellaneous

other

Railway

Environment

Confirmation

Miscellaneous

Type Test Certificates/Test Report

Special Test Certificate Environmental Confirmations

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=3RT1064-2XJ46-0LA2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1064-2XJ46-0LA2

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1064-2XJ46-0LA2

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

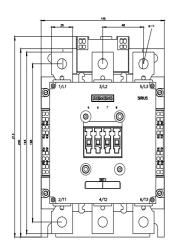
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1064-2XJ46-0LA2\&lang=en}$

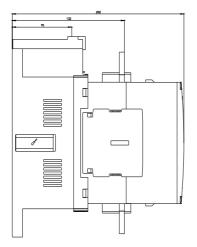
Characteristic: Tripping characteristics, I²t, Let-through current

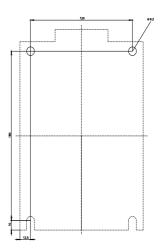
https://support.industry.siemens.com/cs/ww/en/ps/3RT1064-2XJ46-0LA2/char

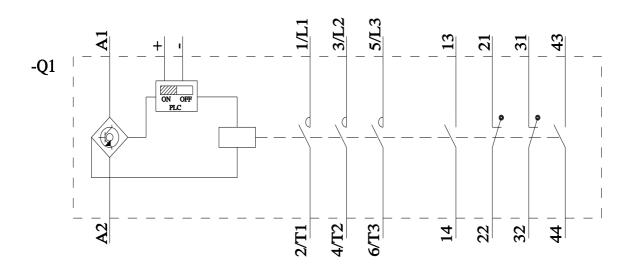
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1064-2XJ46-0LA2&objecttype=14&gridview=view1









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