SIEMENS

Data sheet

3RT1064-6NF36



power contactor, AC-3e/AC-3 225 A, 110 kW / 400 V AC (50-60 Hz) / DC Uc: 96-127 V PLC input 24 V DC 3-pole, auxiliary contacts 2 NO + 2 NC drive: electronic main circuit: busbar control and auxiliary circuit: screw terminal

product brand name	SIRIUS
product designation	Power contactor
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
 without load current share typical 	3.4 W
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 at rectangular impulse	
• at AC	8,5g / 5 ms, 4,2g / 10 ms
● at DC	8,5g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	13,4g / 5 ms, 6,5g / 10 ms
• 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)	05/01/2012
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2 2,2',6,6'-Tetrabrom-4,4'-isopropylidendi - 79-94-7
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

relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30	95 %
maximum	
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
 at AC-3 rated value maximum 	1 000 V
• at AC-3e rated value maximum	1 000 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated 	275 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	275 A
— up to 690 V at ambient temperature 60 °C rated value	250 A
— up to 1000 V at ambient temperature 40 $^\circ \text{C}$ rated value	100 A
— up to 1000 V at ambient temperature 60 °C rated value	100 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 690 V rated value	225 A
— at 1000 V rated value	68 A
 at AC-4 at 400 V rated value 	195 A
 at AC-5a up to 690 V rated value 	242 A
 at AC-5b up to 400 V rated value 	186 A
● at AC-6a	
 — up to 230 V for current peak value n=20 rated value 	225 A
 — up to 400 V for current peak value n=20 rated value 	225 A
 — up to 500 V for current peak value n=20 rated value 	225 A
 — up to 690 V for current peak value n=20 rated value 	225 A
 — up to 1000 V for current peak value n=20 rated value 	68 A
● at AC-6a	
 — up to 230 V for current peak value n=30 rated value 	172 A
 up to 400 V for current peak value n=30 rated value 	172 A
 — up to 500 V for current peak value n=30 rated value 	172 A
 up to 690 V for current peak value n=30 rated value 	172 A
 — up to 1000 V for current peak value n=30 rated value 	68 A
minimum cross-section in main circuit at maximum AC-1 rated value	150 mm²
operational current for approx. 200000 operating cycles at AC-4	
• 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 60 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 60 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 60 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 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 60 V rated value	7.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.17 A
 — at 600 V rated value • with 2 current paths in series at DC-3 at DC-5 	0.12 A
- at 24 V rated value	200 A
— at 60 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 60 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-3	
— at 230 V rated value	55 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	55 kW
— at 400 V rated value	110 kW
— at 500 V rated value	160 kW
— at 690 V rated value — at 1000 V rated value	200 kW 90 kW
operating power for approx. 200000 operating cycles at AC-	90 KVV
4	
• at 400 V rated value	54 kW
• at 690 V rated value	82 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	90 000 kVA
 up to 400 V for current peak value n=20 rated value 	150 000 VA
 up to 500 V for current peak value n=20 rated value 	190 000 VA
 up to 690 V for current peak value n=20 rated value 	260 000 VA
• up to 1000 V for current peak value n=20 rated value	110 000 VA
operating apparent power at AC-6a	60.000 V/A
up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value	60 000 VA
 up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value 	110 000 VA 140 000 VA
 up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value 	200 000 VA
• up to 1000 V for current peak value n=30 rated value	110 000 VA

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			
 limited to 5 s switching at zero current maximum 	2 807 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 10 s switching at zero current maximum 	2 082 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 30 s switching at zero current maximum 				
 limited to 60 s switching at zero current maximum 	1 397 A; Use minimum cross-section acc. to AC-1 rated value 1 144 A; Use minimum cross-section acc. to AC-1 rated value			
no-load switching frequency				
• at AC	1 000 1/h			
• at DC	1 000 1/h			
operating frequency				
• at AC-1 maximum	750 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-4 maximum	130 1/h			
Control circuit/ Control				
type of voltage of the control supply voltage	AC/DC			
control supply voltage at AC				
• at 50 Hz rated value	96 127 V			
at 60 Hz rated value	96 127 V			
control supply voltage at DC				
rated value	96 127 V			
operating range factor control supply voltage rated value of				
magnet coil at DC				
initial value	0.8			
full-scale value	1.1			
operating range factor control supply voltage rated value of magnet coil at AC				
● at 50 Hz	0.8 1.1			
• at 60 Hz	0.8 1.1			
type of PLC-control input according to IEC 60947-1	Туре 2			
consumed current at PLC-control input according to IEC 60947-1 maximum	20 mA			
voltage at PLC-control input rated value	24 V			
operating range factor of the voltage at PLC-control input	0.8 1.1			
design of the surge suppressor	with varistor			
apparent pick-up power				
 at minimum rated control supply voltage at AC 				
— at 50 Hz	400 VA			
— at 60 Hz	400 VA			
 at maximum rated control supply voltage at AC 				
— at 60 Hz	530 VA			
— at 50 Hz	530 VA			
apparent pick-up power of magnet coil at AC				
• at 50 Hz	530 VA			
• at 60 Hz	530 VA			
inductive power factor with closing power of the coil				
• at 50 Hz	0.8			
• at 60 Hz	0.8			
apparent holding power				
 at minimum rated control supply voltage at DC 	2.8 VA			
at maximum rated control supply voltage at DC	3.4 VA			
apparent holding power				
at minimum rated control supply voltage at AC				
— at 50 Hz	5.5 VA			
— at 60 Hz	5.5 VA			
at maximum rated control supply voltage at AC				
— at 50 Hz	8.5 VA			
— at 60 Hz	8.5 VA			
apparent holding power of magnet coil at AC				
• at 50 Hz	8.5 VA			

• at 60 Hz	8.5 VA		
inductive power factor with the holding power of the coil			
• at 50 Hz	0.5		
• at 60 Hz	0.4		
closing power of magnet coil at DC	580 W		
holding power of magnet coil at DC	3.4 W		
closing delay			
• at AC	45 80 ms		
• at DC	45 80 ms		
opening delay			
• at AC	80 100 ms		
• at DC	80 100 ms		
arcing time	10 15 ms		
control version of the switch operating mechanism	PLC-IN or Standard A1 - A2 (adjustable)		
Auxiliary circuit	· _ · · · · · · · · · · · · · · · · · ·		
number of NC contacts for auxiliary contacts instantaneous	2		
contact	-		
number of NO contacts for auxiliary contacts instantaneous contact	2		
operational current at AC-12 maximum	10 A		
operational current at AC-15			
• at 230 V rated value	6 A		
• at 400 V rated value	3 A		
• at 500 V rated value	2 A		
• at 690 V rated value	1A		
operational current at DC-12			
at 24 V rated value	10 A		
 at 48 V rated value 	6 A		
 at 60 V rated value 	6 A		
at 110 V rated value	3 A		
at 125 V rated value	2 A		
at 220 V rated value	1A		
at 600 V rated value	0.15 A		
operational current at DC-13	0.1071		
at 24 V rated value	10 A		
at 48 V rated value	2 A		
at 60 V rated value			
	2 A		
• at 110 V rated value	1 A		
• at 125 V rated value	0.9 A		
at 220 V rated value	0.3 A		
at 600 V rated value	0.1 A		
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)		
UL/CSA ratings			
full-load current (FLA) for 3-phase AC motor			
• at 480 V rated value	180 A		
• at 600 V rated value	192 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	A600 / Q600		
Short-circuit protection			
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 Installation/ mounting/ dimensions	gG: 10 A (500 V, 1 kA)		

festening method screw fixing • elsipht 210 mm width 145 mm depth 202 mm required spacing 0 mm • with side-by-side mounting 202 mm • with side-by-side mounting 0 mm - downwards 10 mm	mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface			
• side by side mountingVesheight210 mmdepth202 mmdepth202 mmevent side-by-side mounting20 mm- upwords10 mm- upwords10 mm- upwords10 mm- downwords10 mm- downwords10 mm- upwords10 mm- downwords10 mm- downwords70 - 20 mm- downwords70 - 20 mm- downwords11 mm- downwords10 mm- downwords10 mm- downwords	factoring mothed	+/- 22.5° tiltable to the front and back			
height20 nmwidth145 mmdepth202 nmrequired spacing20 nm- forwards20 nm- forwards10 mm- downards0 nm- downards10 mm- downards10					
width 445 mm depth 202 mm equind spacing 202 mm • with side-by-side mounting 207 mm - forwards 10 mm - downwards 10 mm - downwards 20 mm - downwards 10 mm - downwards 10 mm - downwards 20 mm - downwards 10 mm - downwards					
depth 202 mm required spacing					
required spacing 20 mm - low works 20 mm - upwards 10 mm - upwards 10 mm - downwards 0 mm - at the side 0 mm - for younds parts 20 mm - for younds parts 20 mm - for younds 10 mm - at the side 20 mm - downwards 10 mm - downwards 20 mm - for walliary contacts Screw-type terminals - for main current circuit Screw-type terminals - of or auxiliary contacts Screw-type terminals - of and for auxiliary contacts Screw-type terminals - of and for auxiliary contacts Screw-type terminals - of anototchor cross-section for auxiliary contacts Sco					
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Connections/ Terminals type of electrical connection Connection bar • for main current circuit connection bar • for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals width of connection bar Emm diameter of holes 11 mm number of holes 11 mm connectable conductor cross-section for main contacts - • stranded 0.5 4 mm² connectable conductor cross-section for auxiliary contacts 0.5 4 mm² • stranded 0.5 4 mm² finely stranded with core end processing 0.5 2.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) - solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) - solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) - solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) - solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) - for auxiliary contacts 18 14 AWG number as coded connectable conductor cross section 18 14 Safety related data 10000 000					
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	Certificates/ approvals				

()	<u>Confirmation</u>			KC	EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Confor	mity	Test Certificates	
RCM	<u>Type Examination Cer-</u> <u>tificate</u>	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>
Marine / Shipping					other
ABS	Lloyd's Register LRS	PRS	RMRS	DINV-GL	<u>Miscellaneous</u>
other			Railway		
Confirmation	<u>Miscellaneous</u>	Confirmation	Vibration and Shock	<u>Special Test Certific-</u> <u>ate</u>	

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,...)

htt om/ic10

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1064-6NF36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1064-6NF36

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

http .industry.siemens.com/cs/ww/en/ps/3RT106

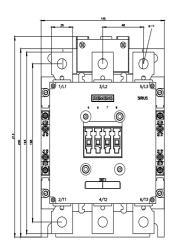
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1064-6NF36&lang=en

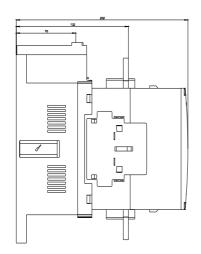
Characteristic: Tripping characteristics, I2t, Let-through current

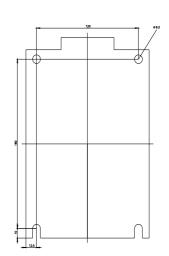
https://support.industry.siemens.com/cs/ww/en/ps/3RT1064-6NF36/char

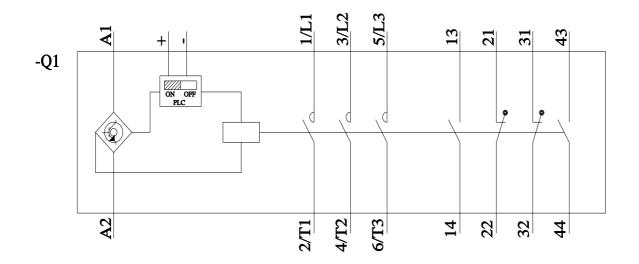
Further characteristics (e.g. electrical endurance, switching frequency)

3RT1064-6NF36&objecttype=14&gridview=view1 http://www.automation.si s.com/bilddb/index.aspx?view=









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