SIEMENS

Data sheet

3RT1054-2NB36



power contactor, AC-3e/AC-3 115 A, 55 kW / 400 V, AC (50-60 Hz) / DC Uc: 21-27.3 V PLC input 24 V DC 3-pole, auxiliary contacts 2 NO + 2 NC drive: electronic main circuit: busbar control and auxiliary circuit: spring-loaded terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S6
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	21 W
 at AC in hot operating state per pole 	7 W
 without load current share typical 	2.8 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
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 maximum	95 %

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 value 	160 A
● at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	160 A
 — up to 690 V at ambient temperature 60 °C rated value 	140 A
— up to 1000 V at ambient temperature 40 °C rated value	80 A
— up to 1000 V at ambient temperature 60 °C rated value	80 A
• at AC-3	
— at 400 V rated value	115 A
— at 500 V rated value	115 A
— at 690 V rated value	115 A
— at 1000 V rated value	53 A
• at AC-3e	445.4
— at 400 V rated value	115 A
— at 500 V rated value	115 A
— at 690 V rated value	115 A
— at 1000 V rated value	53 A
at AC-4 at 400 V rated value	97 A 140 A
at AC-5a up to 690 V rated value	
 at AC-5b up to 400 V rated value at AC-6a 	95 A
— up to 230 V for current peak value n=20 rated value	115 A
— up to 400 V for current peak value n=20 rated value	115 A
— up to 500 V for current peak value n=20 rated value	115 A
— up to 690 V for current peak value n=20 rated value	115 A
 — up to 1000 V for current peak value n=20 rated value at AC-6a 	53 A
 up to 230 V for current peak value n=30 rated value 	98 A
— up to 200 V for current peak value n=30 rated value	98 A
— up to 500 V for current peak value n=30 rated value	98 A
— up to 690 V for current peak value n=30 rated value	98 A
— up to 1000 V for current peak value n=30 rated value	53 A
minimum cross-section in main circuit at maximum AC-1 rated value	70 mm ²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	54 A
• at 690 V rated value	48 A
operational current	
 at 1 current path at DC-1 	
— at 24 V rated value	160 A
— at 60 V rated value	160 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	160 A
— at 60 V rated value	160 A
— at 110 V rated value	160 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	160 A
— at 60 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 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	160 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	0.12 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	160 A
— at 60 V rated value	160 A
— at 110 V rated value	160 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	160 A
— at 60 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 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	37 kW
— at 400 V rated value	55 kW
— at 500 V rated value	75 kW
— at 690 V rated value	110 kW
— at 1000 V rated value	75 kW
• at AC-3e	
— at 230 V rated value	37 kW
— at 400 V rated value	55 kW
— at 500 V rated value	75 kW
— at 690 V rated value	110 kW
— at 1000 V rated value	75 kW
operating power for approx. 200000 operating cycles at AC- 4	
 at 400 V rated value 	29 kW
at 690 V rated value	48 kW
operating apparent power at AC-6a	
up to 230 V for current peak value n=20 rated value	40 000 kVA
• up to 400 V for current peak value n=20 rated value	80 000 VA
• up to 500 V for current peak value n=20 rated value	100 000 VA
• up to 690 V for current peak value n=20 rated value	130 000 VA
• up to 1000 V for current peak value n=20 rated value	90 000 VA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	30 000 VA
 up to 400 V for current peak value n=30 rated value 	60 000 VA
 up to 500 V for current peak value n=30 rated value 	80 000 VA
 up to 690 V for current peak value n=30 rated value 	110 000 VA
• up to 1000 V for current peak value n=30 rated value	90 000 VA
short-time withstand current in cold operating state up to	
40 °C	

 limited to 1 s switching at zero current maximum 	2 565 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	1 654 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	1 170 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	729 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	572 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	800 1/h
• at AC-2 maximum	400 1/h
• at AC-3 maximum	1 000 1/h
• at AC-3e maximum	1 000 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	21 27.3 V
at 60 Hz rated value	21 27.3 V
control supply voltage at DC	
rated value	21 27.3 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	20 mA
60947-1 maximum	
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 of magnet coil at AC	
• at 50 Hz	280 VA
• at 60 Hz	280 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
• at 60 Hz	0.8
apparent holding power of magnet coil at AC	
• at 50 Hz	4.8 VA
• at 60 Hz	4.8 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.6
• at 60 Hz	0.6
closing power of magnet coil at DC	320 W
holding power of magnet coil at DC	2.8 W
closing delay	
• at AC	35 75 ms
• at DC	35 75 ms
opening delay	
• at AC	80 90 ms
• at DC	80 90 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 contact	2
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	1 A
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	1 A
 at 600 V rated value 	0.15 A
operational current at DC-13	
• 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	124 A
• at 600 V rated value	125 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 230 V rated value	25 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	40 hp
— at 220/230 V rated value	50 hp
— at 460/480 V rated value	100 hp
— at 575/600 V rated value	125 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: 355 A (690 V, 100 kA)
— with type of assignment 2 required	gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50
with type of doorgnment 2 required	kA)
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface
	+/- 22.5° tiltable to the front and back
fastening method	screw fixing
 side-by-side mounting 	Yes
height	172 mm
width	120 mm
depth	170 mm
required spacing	
 with side-by-side mounting 	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
 for grounded parts 	
— forwards	20 mm
— upwards	10 mm
— at the side	10 mm

	dowowordo	10 mm			
	— downwards	10 mm			
		20 mm			
Connections/Toronitals For man corner circul softward of nauxiliary contacts of or man cornection bar of or man cornection cores-sections of or maximary contacts of maximary contacts of or maximary contacts of or maximary contacts of maximary contacts					
type of electrical connection of main carrent circuit of mainly and control circuit of mainly performance of mainly perform		10 mm			
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• for suviliery and control vircuit • extrements • ex					
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number of holes 1 connectable conductor cross-section for main contacts 5 • stranded 25 connectable conductor cross-section for auxiliary contacts 0.25 • solid 25 • finely stranded with core end processing 0.25 • for auxiliary contacts 24 • solid or stranded 24 • for auxiliary contacts 20 • for auxiliary contacts 24 • for auxiliary contacts 24 • for auxiliary contacts 24 • for auxiliary contacts 20 • for auxiliary contacts 20 • for auxiliary contacts 20 <tr< td=""><td>thickness of connection bar</td><td>3 mm</td><td></td></tr<>	thickness of connection bar	3 mm			
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	number of holes	1			
connectable conductor cross-section for auxiliary contacts 0.25 2.5 mm ² 0.25 2.5 mm ² in rely stranded without core and processing 0.25 2.5 mm ² 0.25 2.5 mm ² in rely stranded without core and processing 0.25 2.5 mm ² 0.25 2.5 mm ² in rely stranded without core and processing 2.25 2.5 mm ² 0.25 2.5 mm ² in rely stranded without core and processing 2.4 (0.25 2.5 mm ²) 0.25 2.5 mm ² in rely stranded with core and processing 2.4 (0.25 2.5 mm ²) 2.4 (0.25 2.5 mm ²) in rely stranded with core and processing 2.4 (0.25 2.5 mm ²) 2.4 (0.25 2.5 mm ²) in rely stranded with core and processing 2.4 (0.25 2.5 mm ²) 2.4 (0.25 2.5 mm ²) in rely stranded with core and processing 2.4 (0.25 2.5 mm ²) 2.4 (0.25 2.5 mm ²) in rely stranded with core and processing 2.4 (0.25 2.5 mm ²) 2.4 (0.25 2.5 mm ²) in rely stranded with core and processing 2.4 (0.25 2.5 mm ²) 2.4 (0.25 2.5 mm ²) in rely stranded with core and processing 2.4 (0.25 2.5 mm ²) 2.4 (0.25 2.5 mm ²) in rely stranded with core and processing 2.4 14 2.4 14 Strate rely related strate cording to IE	connectable conductor cross-section for main contacts				
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• finely stranded with core end processing 0.25 2.6 mm ³ • finely stranded without core end processing 0.25 2.6 mm ³ • or auxiliary contacts - solid • solid or stranded with core end processing 2x (0.25 2.6 mm ³) • finely stranded with core end processing 2x (0.25 2.6 mm ³) • finely stranded with core end processing 2x (0.25 2.6 mm ³) • for auxiliary contacts 2x (0.25 2.6 mm ³) • or auxiliary contacts 2x (0.25 2.6 mm ³) • or auxiliary contacts 2x (0.25 2.6 mm ³) • or auxiliary contacts 2x (0.25 2.6 mm ³) • or auxiliary contacts 2x (0.25 2.6 mm ³) • or auxiliary contacts 2x (0.25 2.6 mm ³) • or auxiliary contacts 2x (0.25 2.6 mm ³) • or auxiliary contacts 2x (0.25 2.6 mm ³) • or auxiliary contacts 2x (0.25 2.6 mm ³) • or auxiliary contacts 2x (0.25 2.6 mm ³) • or auxiliary contacts 2x (0.25 2.6 mm ³) • or auxiliary contacts 2x (0.25 2.6 mm ³) • or auxiliary contacts 2x (0.27 1.6 mm ³) • or auxiliary contacts 9x (0.00 00.0 • or auxil	connectable conductor cross-section for auxiliary contacts				
• finely stranded without core end processing 0.25 2.5 mm² • for aukilary contacts 2x (0.25 2.5 mm²) • end or stranded 2x (0.25 2.5 mm²) • for aukilary contacts 2x (0.25 2.5 mm²) • for aukilary contacts 2x (0.25 1.5 mm²) • for aukilary contacts 2x (0.25 2.5 mm²) • for aukilary contacts 2x (0.25 1.5 mm²) • for aukilary contacts 2x (0.25 2.5 mm²) • for aukilary contacts 24 14 Safety related data 70 contact for aukilary contacts • for aukilary contacts 24 14 Safety related data 70 contact for aukilary contacts • for aukilary contacts 24 14 Safety related data 70 contact for aukilary contacts • or aukilary contacts 24 14 Safety related data 70 contact for aukilary contacts Protection class IP on the front according to IEC 60529 100 0000 11 value for protest interval or service ille according to IEC 60529 1100; 1120 with box terminal/cover safety/safety or base 6 continuation 7 contact from the front with box terminal/cover safety/safety or base 6 continuation 7 contact from the front with box terminal/cover safety/safety or base 6 continuation 100 0 000 11 value for pr	 solid or stranded 	0.25 2.5 mm²			
type of connectable conductor cross-sections of auxiliary contacts Solid or stranded Solid or stranded They stranded with core end processing They stranded with out core end processing They stranded with out core end processing of auxiliary contacts AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section of auxiliary contacts 24 14 Solid truetton entror contact according to IEC 60947-5-1 Postively driven operation according to IEC 60529 tobic protection class IP on the front according to IEC 60529 tupor itel interval or service life according to IEC 60529 tupor itel protection on the front according to IEC 60529 tupor itel protection on the front according to IEC 60529 tupor itel protection on the front according to IEC 60529 tupor itel protection on the front according to IEC 60529 suitability for use safety/safety of Mac Confirmation Memory itelase Confirmation of Conformity Test Certificates tupor itela itela itela itela Type Examination Certure itela itela tupor itela itel	 finely stranded with core end processing 	0.25 1.5 mm²			
	 finely stranded without core end processing 	0.25 2.5 mm²			
- solid - solid or stranded 2x (0.252.5 mm ²) - infery stranded with occe end processing - x (0.252.5 mm ²) - infery stranded with occe end processing - x (0.252.5 mm ²) - or AVG cables for auxiliary contacts - 2x (0.252.5 mm ²) - or AVG cables for auxiliary contacts - 2x (0.252.5 mm ²) - or AVG cables for auxiliary contacts - 2x (0.252.5 mm ²) - or AVG cables for auxiliary contacts - 2x (0.252.5 mm ²) - Staty related auxiliary contacts - 2x (0.252.5 mm ²) - Staty related auxiliary contacts - 2x (0.252.5 mm ²) - Staty related data	type of connectable conductor cross-sections				
- solid or stranded 2x (0.25 25 mm ²) - inely stranded with core end processing 2x (0.25 25 mm ²) - inely stranded with core end processing 2x (0.25 25 mm ²) - or AWG cables for auxiliary contacts 2x (14) Awger value of auxiliary contacts 2x 14 Product function 2x 14 Product function 2x 14 Bit value with high demand rate according to IEC 60947-5-1 No Bit value with high demand rate according to IEC 60947-5-1 No Bit value with high demand rate according to IEC 60529 IP00; IP20 with box terminal/cover outpot prot test interval or service life according to IEC 60529 IP00; IP20 with box terminal/cover stably-related subtring OFF Ves Cardificated approvals Ves Cardificated approvals Exercite General Product Approval Ves Eneral Product Approval Exercite Eneral Product Approval Declaration of Conformity Stably/Safety of Mite chinery Declaration of Conformity Stably/Safety of Mite chinery Declaration of Conformity Test Certificates Exercite Report Exercit Exercit Special Tast Certific a	 for auxiliary contacts 				
	— solid	2x (0.25 2.5 mm²)			
	— solid or stranded	2x (0,25 2,5 mm²)			
• for AWG cables for auxiliary contacts 2x (24 14) AWG number as coded connectable conductor cross section 24 14 Safety related data 24 14 Product function 0 error of according to IEC 60947-4-1 Yes • positively driven operation according to IEC 60947-5-1 No B10 value with high demand rate according to IEC 60547 1000 000 11 value for proof test interval or service life according to IEC 60529 1000 000 12 value of proof test interval or service life according to IEC 60529 IP00; IP20 with box terminal/cover subability for use estely-related switching OFF Yes • safety-related switching OFF Yes Confirmation • safety-related switching OFF Yes Emeral Product Approvals Certificates/ approvals Confirmation KC Emeral Certificates/ approvals Confirmation KC Emeral EMC Functional safety/Safety of Machinery Declaration of Conformity Test Certificates EMC Functional safety/Safety of Machinery Extern Safety/Safety of Machinery Extern EMC Functional safety/Safety of Machinery Exteret Exteret Safety/Safety of Safety	 finely stranded with core end processing 	2x (0.25 1.5 mm²)			
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Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1054-2NB36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1054-2NB36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-2NB36

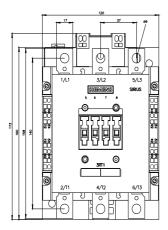
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

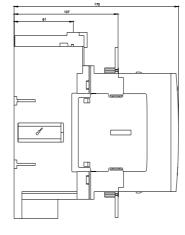
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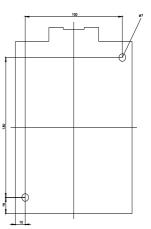
Characteristic: Tripping characteristics, I2t, Let-through current

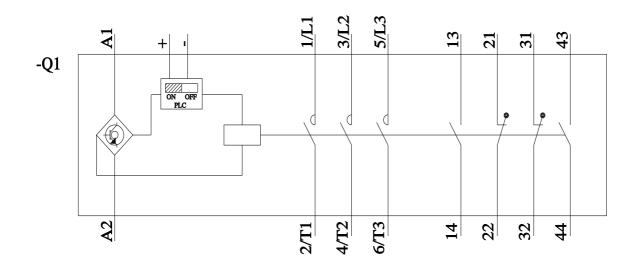
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