SIEMENS

Data sheet

3RT1055-6AF36-3PA0



power contactor, AC-3e/AC-3 150 A, 75 kW / 400 V AC (50-60 Hz) / DC Uc: 110-127 V 3-pole, auxiliary contacts 2 NO + 2 NC permanently mounted drive: conventional 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	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 	27 W
 at AC in hot operating state per pole 	9 W
 without load current share typical 	5.2 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 safe isolation 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 	185 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C	185 A
rated value	100 A
 up to 690 V at ambient temperature 60 °C rated value 	160 A
 up to 1000 V at ambient temperature 40 °C rated value 	90 A
 up to 1000 V at ambient temperature 60 °C rated value 	90 A
• at AC-3	
— at 400 V rated value	150 A
— at 500 V rated value	150 A
— at 690 V rated value	150 A
— at 1000 V rated value	65 A
• at AC-3e	
— at 400 V rated value	150 A
— at 500 V rated value	150 A
— at 690 V rated value	150 A
— at 1000 V rated value	65 A
 at AC-4 at 400 V rated value 	132 A
 at AC-5a up to 690 V rated value 	162 A
at AC-5b up to 400 V rated value	124 A
• at AC-6a	
 up to 230 V for current peak value n=20 rated value 	150 A
 up to 400 V for current peak value n=20 rated value 	150 A
— up to 500 V for current peak value n=20 rated value	150 A
 up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated 	150 A 65 A
value • at AC-6a	00 A
up to 230 V for current peak value n=30 rated value	105 A
 up to 400 V for current peak value n=30 rated value 	105 A
— up to 500 V for current peak value n=30 rated value	105 A
— up to 690 V for current peak value n=30 rated value	105 A 65 A
— up to 1000 V for current peak value n=30 rated value minimum cross-section in main circuit at maximum AC-1	95 mm ²
rated value operational current for approx. 200000 operating	
cycles at AC-4	
• at 400 V rated value	68 A
• at 690 V rated value	57 A
operational current	
• at 1 current path at DC-1	
— at 24 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 24 V rated value	160 A 160 A
— at 110 V rated value	160 A 20 A
— at 220 V rated value — at 440 V rated value	3.2 A
	1.6 A
 — at 600 V rated value with 3 current paths in series at DC-1 	1.0 A
— at 24 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 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 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 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-2 at 400 V rated value	75 kW
• at AC-3	AF IAM
— at 230 V rated value	45 kW
— at 400 V rated value	75 kW
— at 500 V rated value — at 690 V rated value	90 kW 132 kW
— at 1000 V rated value	90 kW
at AC-3e	30 KVV
— at 230 V rated value	45 kW
— at 400 V rated value	75 kW
— at 500 V rated value	90 kW
— at 690 V rated value	132 kW
— at 1000 V rated value	90 kW
operating power for approx. 200000 operating cycles	
at AC-4	
• at 400 V rated value	38 kW
• at 690 V rated value	55 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	60 000 kVA
• up to 400 V for current peak value n=20 rated value	100 000 VA
up to 500 V for current peak value n=20 rated value	130 000 VA
up to 690 V for current peak value n=20 rated value	170 000 VA
 up to 1000 V for current peak value n=20 rated value 	110 000 VA
operating apparent power at AC-6a	
up to 230 V for current peak value n=30 rated value	40 000 VA
 up to 400 V for current peak value n=30 rated value 	70 000 VA
up to 500 V for current peak value n=30 rated value	90 000 VA
• up to 690 V for current peak value n=30 rated value	120 000 VA
• up to 1000 V for current peak value n=30 rated	110 000 VA
value	
short-time withstand current in cold operating state up to 40 °C	
Iimited to 1 s switching at zero current maximum	2 727 A; Use minimum cross-section acc. to AC-1 rated value
Ilimited to 1's switching at zero current maximum Ilimited to 5 s switching at zero current maximum	1 831 A; Use minimum cross-section acc. to AC-1 rated value
limited to 3 s switching at zero current maximum limited to 10 s switching at zero current maximum	1 300 A; Use minimum cross-section acc. to AC-1 rated value
- miniou to 10 0 ownorming at 2010 bufferit maximum	. 3337., 300 minimum oraso accitori acc. to 713-1 fatea value

 limited to 30 s switching at zero current maximum 	850 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	703 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	2 000 1/h
• at DC	2 000 1/h
operating frequency	
at AC-1 maximum	800 1/h
at AC-2 maximum	300 1/h
at AC-3 maximum	750 1/h
at AC-3e maximum	750 1/h
at AC-4 maximum	130 1/h
Control circuit/ Control	100 1111
	ACIDO
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	440 407.1/
at 50 Hz rated value	110 127 V
at 60 Hz rated value	110 127 V
control supply voltage at DC	
• rated value	110 127 V
operating range factor control supply voltage rated	
value of magnet coil at DC	0.0
• 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
design of the surge suppressor	with varistor
apparent pick-up power of magnet coil at AC	
● at 50 Hz	300 VA
● at 60 Hz	300 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.9
● at 60 Hz	0.9
apparent holding power of magnet coil at AC	
• at 50 Hz	5.8 VA
● at 60 Hz	5.8 VA
inductive power factor with the holding power of the	
coil	
● at 50 Hz	0.8
● at 60 Hz	0.8
closing power of magnet coil at DC	360 W
holding power of magnet coil at DC	5.2 W
closing delay	
• at AC	20 95 ms
• at DC	20 95 ms
opening delay	
• at AC	40 60 ms
• at DC	40 60 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
instantaneous contact	
number of NO contacts for auxiliary contacts	
	2
instantaneous contact	
instantaneous contact operational current at AC-12 maximum	2 10 A
instantaneous contact operational current at AC-12 maximum operational current at AC-15	10 A
instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value	10 A 6 A
instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value	10 A 6 A 3 A
instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value	10 A 6 A 3 A 2 A
instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value	10 A 6 A 3 A
instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12	10 A 6 A 3 A 2 A 1 A
instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value	10 A 6 A 3 A 2 A

1001/11/1	
 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
	1 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
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	156 A
	144 A
at 600 V rated value	144 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 230 V rated value	30 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	50 hp
 at 220/230 V rated value 	60 hp
 at 460/480 V rated value 	125 hp
— at 575/600 V rated value	150 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
	A0007 Q000
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)
	0.045 4 (000) / 400 4)
 — with type of assignment 2 required 	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415
— with type of assignment 2 required	gG: 315 A (690 V, 100 kA), am: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA)
for short-circuit protection of the auxiliary switch	
	V, 50 kA)
for short-circuit protection of the auxiliary switch	V, 50 kA)
for short-circuit protection of the auxiliary switch required	V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	V, 50 kA) gG: 10 A (500 V, 1 kA)
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method	V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting	V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height	V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width	V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth	V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm
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for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting	V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 10 mm 10 mm 10 mm 10 mm 10 mm
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — at the side • for grounded parts — upwards — upwards — at the side • at the side • at the side • at the side • at the side	V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — at the side • for grounded parts — upwards — upwards — at the side — at the side — downwards — at the side — downwards — at the side — downwards	V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 10 mm 10 mm 10 mm 10 mm 10 mm
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — at the side • for grounded parts — upwards — at the side — downwards • for live parts	V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 20 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — at the side • for grounded parts — at the side — downwards — for live parts — forwards • for live parts — forwards	V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 0 mm 0 mm 10 mm
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — at the side — downwards — at the side — forwards — at the side — for live parts — forwards — upwards — upwards — at the side — downwards — at the side — downwards — upwards — at the side — downwards — upwards — upwards	V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 0 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
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for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — at the side — downwards — forwards — upwards — at the side — downwards — at the side	V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 20 mm 10 mm
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — at the side • for grounded parts — at the side — downwards — if orwards — upwards — at the side — downwards — at the side Connections/ Terminals type of electrical connection	V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 10 mm

• at contactor for auxiliary contacts

• of magnet coil

width of connection bar

thickness of connection bar

diameter of holes

number of holes

type of connectable conductor cross-sections

at AWG cables for main contacts

connectable conductor cross-section for main contacts

stranded

connectable conductor cross-section for auxiliary contacts

- solid or stranded
- finely stranded with core end processing

type of connectable conductor cross-sections

- for auxiliary contacts
 - solid
 - solid or stranded
 - finely stranded with core end processing
- at AWG cables for auxiliary contacts

AWG number as coded connectable conductor cross section

• for auxiliary contacts

Screw-type terminals

Screw-type terminals

17 mm

3 mm

9 mm 1

4 ... 250 kcmil

25 ... 120 mm²

0.5 ... 4 mm²

0.5 ... 2.5 mm²

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), max. 2x (0.75 ... 4 mm²)

2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²), max. 2x (0,75 ... 4 mm²)

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (20 ... 16), 2x (18 ... 14), 1x 12

18 ... 14

Safety related data

product function

• mirror contact according to IEC 60947-4-1

• positively driven operation according to IEC 60947-

5-1

 $\,$ B10 value with high demand rate according to SN 31920 $\,$

T1 value for proof test interval or service life according to IEC 61508

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529 suitability for use

safety-related switching OFF

Yes No

1 000 000

20 y

IP00; IP20 with box terminal/cover

finger-safe, for vertical contact from the front with box terminal/cover

Yes

Certificates/ approvals

General Product Approval





Confirmation



KC



EMC

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

Test Certificates

Marine / Shipping

Miscellaneous











other Railway

<u>Miscellaneous</u> <u>Confirmation</u> <u>Confirmation</u> <u>Miscellaneous</u> <u>Special Test Certificate</u>

Further information

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=3RT1055-6AF36-3PA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1055-6AF36-3PA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1055-6AF36-3PA0

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

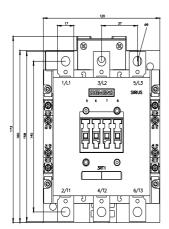
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1055-6AF36-3PA0&lang=en

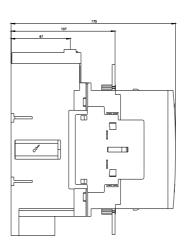
Characteristic: Tripping characteristics, I2t, Let-through current

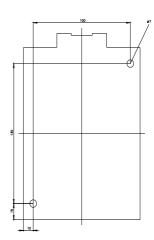
https://support.industry.siemens.com/cs/ww/en/ps/3RT1055-6AF36-3PA0/char

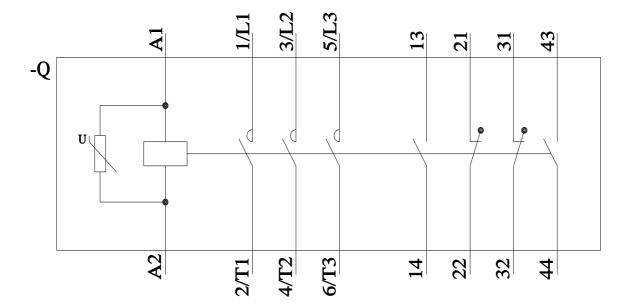
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1055-6AF36-3PA0&objecttype=14&gridview=view1









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