## SIEMENS

## Data sheet

## 3RT1054-6AB36



Power contactor, AC-3 115 A, 55 kW / 400 V AC (50-60 Hz) / DC operation 23-26 V UC Auxiliary contacts 2 NO + 2 NC 3-pole, Size S6 Busbar connections Drive: conventional screw terminal

product brand name	SIRIUS		
product designation	Power contactor		
product type designation	3RT1		
General technical data			
size of contactor	S6		
product extension			
<ul> <li>function module for communication</li> </ul>	No		
<ul> <li>auxiliary switch</li> </ul>	Yes		
power loss [W] for rated value of the current at AC in hot operating state	21 W		
• per pole	7 W		
power loss [W] for rated value of the current without load current share typical	5.2 W		
surge voltage resistance			
<ul> <li>of main circuit rated value</li> </ul>	8 kV		
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV		
maximum permissible voltage for safe isolation between coil and main contacts acc. 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 (switching cycles)			
<ul> <li>of contactor typical</li> </ul>	10 000 000		
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000		
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000		
reference code acc. to IEC 81346-2	Q		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
<ul> <li>ambient temperature during operation</li> </ul>	-25 +60 °C		
ambient temperature during storage	-55 +80 °C		
Main circuit			
number of poles for main current circuit	3		
number of NO contacts for main contacts	3		



	4.000.)/
operating voltage at AC-3 rated value maximum	1 000 V
operational current	160 A
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	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
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	97 A
	97 A 140 A
• at AC-5a up to 690 V rated value	
• at AC-5b up to 400 V rated value	95 A
<ul> <li>at AC-6a         <ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul> </li> </ul>	115 A
value — 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	53 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated	98 A
value — up to 400 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
<ul> <li>— up to 690 V for current peak value n=30 rated value</li> </ul>	98 A
<ul> <li>— up to 1000 V for current peak value n=30 rated value</li> </ul>	53 A
minimum cross-section in main circuit at maximum AC-1 rated value	70 mm²
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	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— 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
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 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

<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— 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
operational current	
• at 1 current path at DC-3 at DC-5	
- at 24 V rated value	160 A
— at 110 V rated value	2.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.17 A
— at 600 V rated value	0.17 A
	0.12 A
with 2 current paths in series at DC-3 at DC-5     at 24 V rated value	160 A
— at 24 V rated value	160 A 160 A
— at 110 V rated value	2.5 A
— at 220 V rated value	
— 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	100.4
— 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-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
operating power for approx. 200000 operating cycles at AC-4	
<ul> <li>at 400 V rated value</li> </ul>	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 kV·A
• up to 400 V for current peak value n=20 rated value	80 000 V·A
• up to 500 V for current peak value n=20 rated value	100 000 V·A
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	130 000 V·A
<ul> <li>up to 1000 V for current peak value n=20 rated value</li> <li>up to 1000 V for current peak value n=20 rated</li> </ul>	90 000 V·A
value	
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	30 000 V·A
• up to 400 V for current peak value n=30 rated value	60 000 V·A
• up to 500 V for current peak value n=30 rated value	80 000 V·A
• up to 690 V for current peak value n=30 rated value	110 000 V·A
• up to 1000 V for current peak value n=30 rated	90 000 V·A
value	
short-time withstand current in cold operating state up to 40 °C	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	2 565 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	1 654 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	1 170 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	729 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	572 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
no-load switching nequency	
• 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	400 1/h
• at AC-3 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	Acide
at 50 Hz rated value	23 26 V
at 60 Hz rated value	23 26 V
control supply voltage at DC	2520 V
rated value	23 26 V
operating range factor control supply voltage rated	20 20 V
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
design of the surge suppressor	with varistor
apparent pick-up power of magnet coil at AC	
• at 50 Hz	300 V·A
inductive power factor with closing power of the coil	
• at 50 Hz	0.9
apparent holding power of magnet coil at AC	
• at 50 Hz	5.8 V·A
inductive power factor with the holding power of the coil	
• at 50 Hz	0.8
closing power of magnet coil at DC	360 W
holding power of magnet coil at DC	5.2 W
closing delay	0.2 11
• 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	
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 2 A
at 500 V rated value	2 A
at 690 V rated value	1 A
operational current at DC-12	10.4
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 2 A
<ul> <li>at 125 V rated value</li> </ul>	2 A
at 220 V rated value	1 A

	0.45.4			
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			
<ul> <li>at 60 V rated value</li> </ul>	2 A			
<ul> <li>at 110 V rated value</li> </ul>	1 A			
<ul> <li>at 125 V rated value</li> </ul>	0.9 A			
<ul> <li>at 220 V rated value</li> </ul>	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				
<ul> <li>at 480 V rated value</li> </ul>	124 A			
<ul> <li>at 600 V rated value</li> </ul>	125 A			
yielded mechanical performance [hp]				
<ul> <li>for single-phase AC motor</li> </ul>				
— at 230 V rated value	25 hp			
<ul> <li>for 3-phase AC motor</li> </ul>				
— 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				
•				
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	~C: 255 A (600 ) ( 100 kA)			
<ul> <li>— with type of coordination 1 required</li> <li>with type of coordination 2 required</li> </ul>	gG: 355 A (690 V, 100 kA)			
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA)			
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	qG: 10 A (500 V, 1 kA)			
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)			
	gG: 10 A (500 V, 1 kA)			
required	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			
required Installation/ mounting/ dimensions	with vertical mounting surface +/-90° rotatable, with vertical mounting			
required Installation/ mounting/ dimensions mounting position fastening method	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back			
required Installation/ mounting/ dimensions mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing			
required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes			
required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm			
required Installation/ mounting/ dimensions mounting position fastening method	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			
required Installation/ mounting/ dimensions mounting position fastening method	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			
required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting	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			
required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards	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			
required Installation/ mounting/ dimensions mounting position fastening method	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			
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	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			
required Installation/ mounting/ dimensions mounting position fastening method <ul> <li>side-by-side mounting</li> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing                 <ul> <li>with side-by-side mounting</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> </li> </ul>	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			
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required Installation/ mounting/ dimensions mounting position fastening method <ul> <li>side-by-side mounting</li> <li>height</li> <li>width</li> <li>depth</li> </ul> <li>required spacing         <ul> <li>with side-by-side mounting</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>forwards</li> <li>forwards</li> </ul> </li>	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 20 mm			
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required Installation/ mounting/ dimensions mounting position fastening method <ul> <li>side-by-side mounting</li> <li>height</li> <li>width</li> <li>depth</li> </ul> <ul> <li>with side-by-side mounting</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> </ul>	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 20 mm 10 mm 10 mm 10 mm			
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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 — forwards — at the side • for grounded parts — forwards — at the side — downwards — at the side — downwards — at the side — downwards — at the side — for live parts — forwards	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 120 mm 170 mm 20 mm 10 mm 0 mm 20 mm 10 mm 20 mm 10 mm 20 mm			
required Installation/ mounting/ dimensions mounting position fastening method <ul> <li>side-by-side mounting</li> <li>height</li> <li>width</li> <li>depth</li> </ul> <ul> <li>with side-by-side mounting</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> <li>at the side</li> <li>for upwards</li> <li>at the side</li> <li>for upwards</li> <li>at the side</li> <li>for wards</li> <li>at the side</li> <li>downwards</li> <li>at the side</li> <li>for live parts</li> <li>for live parts</li> <li>for wards</li> <li>upwards</li> <li>upwards</li> <li>for live parts</li> <li>upwards</li> <li>upwards</li> <li>upwards</li> <li>upwards</li> <li>upwards</li> <li>upwards</li> <li>upwards</li> </ul>	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 120 mm 170 mm 20 mm 10 mm 20 mm 10 mm 20 mm 10 mm 20 mm 10 mm 10 mm			
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required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — upwards — downwards — at the side • for grounded parts — forwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — forwards — at the side • for live parts — forwards — upwards — at the side — downwards — at the side — downwards — at the side — downwards — at the side — downwards — at the side — forwards — upwards — upwards — at the side — downwards — width of connection bar	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 120 mm 170 mm 20 mm 0 mm 20 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm			
required Installation/ mounting/ dimensions mounting position fastening method <ul> <li>side-by-side mounting</li> <li>height</li> <li>width</li> <li>depth</li> </ul> <li>e with side-by-side mounting             <ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>at the side</li> <li>for live parts</li> <li>at the side</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> </ul> </li> <li>for live parts</li> <li>at the side</li> <li>at the side</li> <li>for live parts</li> <li>at the side</li> <li>at the side</li> <li>at the side</li> <li>for wards</li> <ul> <li>at the side</li> <li>forwards</li> <li>at the side</li> <li>for live parts</li> <li>at the side</li> <li>at the side</li> <li>at the side</li> </ul>	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 120 mm 170 mm 20 mm 0 mm 20 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm			

diameter of holes		9 mm		
number of holes		1		
type of electrical connection				
<ul> <li>for main current circuit</li> </ul>		Connection bar		
<ul> <li>for auxiliary and control circuit</li> </ul>		screw-type terminals		
<ul> <li>at contactor for auxiliary contacts</li> </ul>		Screw-type terminals		
of magnet coil		Screw-type terminals		
type of connectable conductor cross-sec	tions			
at AWG cables for main contacts		4 250 kcmil		
contacts	connectable conductor cross-section for main contacts			
• stranded		25 120 mm²		
contacts	connectable conductor cross-section for auxiliary contacts			
solid or stranded		0.5 4 mm <sup>2</sup>		
finely stranded with core end processi	•	0.5 2.5 mm²		
type of connectable conductor cross-sec	tions			
<ul> <li>for auxiliary contacts</li> </ul>				(0.75.4)
— solid		2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.7		
— solid or stranded		2x (0,5 1,5 mm <sup>2</sup> ), 2x (0,		(0,75 4 mm²)
— finely stranded with core end proc	cessing	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.7		
at AWG cables for auxiliary contacts		2x (20 16), 2x (18 14)	), 1x 12	
AWG number as coded connectable c cross section for auxiliary contacts	onductor	18 14		
Safety related data				
B10 value with high demand rate acc. to SN	31920	1 000 000		
product function				
<ul> <li>mirror contact acc. to IEC 60947-4-1</li> </ul>		Yes		
positively driven operation acc. to IEC	60947-5-1	No		
protection class IP on the front acc. to IE	C 60529	IP00; IP20 with box termin	al/cover	
touch protection on the front acc. to IEC	60529	finger-safe, for vertical cor	tact from the front with I	box terminal/cover
suitability for use safety-related switching OF	F	Yes		
Certificates/ approvals				
General Product Approval				EMC
	(لل س	KC	EAC	RCM
Declaration of Conformity	Test Certifica	ites		Marine / Shipping
		<b>A A A A</b>		-
EG-Konf.	<u>Type Test</u> <u>Certificates/T</u> <u>Report</u>		<u>Miscellaneous</u>	ABS
Marine / Shipping	other			
	<u>Confirmatic</u>	on <u>Miscellaneous</u>	<u>Miscellaneous</u>	<u>Confirmation</u>
Railway				

## 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=3RT1054-6AB36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1054-6AB36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-6AB36

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

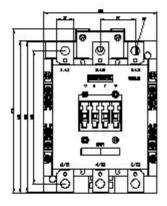
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1054-6AB36&lang=en

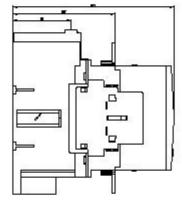
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

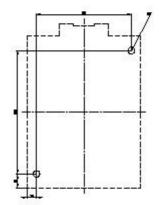
https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-6AB36/char

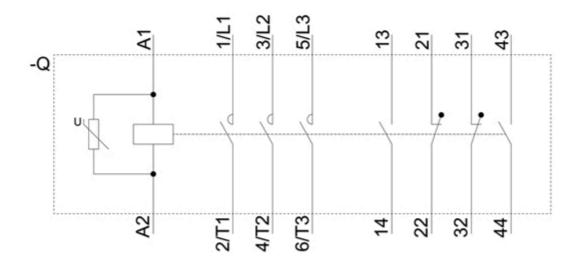
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1054-6AB36&objecttype=14&gridview=view1









last modified:

12/18/2020 🖸