SIEMENS

Data sheet

3RT1055-6AP36



power contactor, AC-3e/AC-3 150 A, 75 kW / 400 V AC (50-60 Hz) / DC Uc: 220-240 V 3-pole, auxiliary contacts 2 NO + 2 NC drive: conventional main circuit: busbar control and auxiliary circuit: screw terminal

03	
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	405 A
 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 rated value	185 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	450.4
— 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 132 A
 at AC-4 at 400 V rated value at AC-5a up to 690 V rated value 	152 A 162 A
 at AC-5b up to 400 V rated value 	102 A 124 A
• at AC-6a	127 A
— up to 230 V for current peak value n=20 rated	150 A
value — 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	150 A
 — up to 1000 V for current peak value n=20 rated value 	65 A
● at AC-6a	
 — 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
— up to 1000 V for current peak value n=30 rated value	65 A
minimum cross-section in main circuit at maximum AC-1 rated value	95 mm²
operational current for approx. 200000 operating cycles at AC-4	
 at 400 V rated value at 690 V rated value 	68 A 57 A
• at 690 v rated value 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

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 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	100.1
— 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 roted value	100 4
— at 24 V rated value	160 A
— at 60 V rated value	160 A
— at 110 V rated value	160 A 2.5 A
— at 220 V rated value	
— at 440 V rated value — at 600 V rated value	0.65 A 0.37 A
	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	0.75 A
• at AC-3	
— 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
• at AC-3e	
— 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 	110 000 VA
value	
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 value 	110 000 VA

short-time withstand current in cold operating state				
up to 40 °C	2.727 At Lee minimum grace continue and to AC 1 retail value			
 limited to 1 s switching at zero current maximum 	2 727 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 5 s switching at zero current maximum 	1 831 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 10 s switching at zero current maximum 	1 300 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 	850 A; Use minimum cross-section acc. to AC-1 rated value			
no-load switching frequency	703 A; Use minimum cross-section acc. to AC-1 rated value			
• at AC	2 000 1/h			
• at DC	2 000 1/h 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				
type of voltage of the control supply voltage	AC/DC			
control supply voltage at AC				
• at 50 Hz rated value	220 240 V			
 at 60 Hz rated value 	220 240 V			
control supply voltage at DC				
 rated value 	220 240 V			
operating range factor control supply voltage rated				
value of magnet coil at DC				
• initial value	0.8			
 full-scale value operating range factor control supply voltage rated 	1.1			
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	10 00			
• at AC	40 60 ms			
• at DC	40 60 ms 10 15 ms			
arcing time 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 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	2 A 1 A			
at 600 V rated value	0.15 A			
operational current at DC-13	10.4			
 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 	0.3 A			
contact reliability of auxiliary contacts	0.1 A 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			
 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				
	50 hr			
— 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			
Short-circuit protection				
design of the fuse link				
design of the fuse link • for short-circuit protection of the main circuit	aC: 355 A (600 V 100 KA)			
 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)			
design of the fuse link • for short-circuit protection of the main circuit	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415			
 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 	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA)			
 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 	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415			
 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: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA)			
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 Installation/ mounting/ dimensions	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)			
 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: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting			
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 Installation/ mounting/ dimensions mounting position	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 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			
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 Installation/ mounting/ dimensions mounting position fastening method	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 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			
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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 Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 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			
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 Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 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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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 Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 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			
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Connections/ Terminals					
type of electrical connection					
for main current circuit		Connection bar			
 for auxiliary and control circuit 		screw-type terminals			
• at contactor for auxiliary contacts		Screw-type terminals			
 of magnet coil 		Screw-type terminals			
width of connection bar		17 mm			
thickness of connection bar		3 mm			
diameter of holes		9 mm			
number of holes		1			
connectable conductor cross-section contacts	for main				
 stranded 		25 120 mm²			
connectable conductor cross-section contacts	for auxiliary				
 solid or stranded 		0.5 4 mm²			
 finely stranded with core end proc 	-	0.5 2.5 mm ²			
type of connectable conductor cross-	-sections				
 for auxiliary contacts 					
— solid		2x (0.5 1.5 mm²), 2x (0.7			
— solid or stranded		2x (0,5 1,5 mm²), 2x (0,7		(0,75 4 mm²)	
— finely stranded with core end		2x (0.5 1.5 mm²), 2x (0.7			
at AWG cables for auxiliary contact		2x (20 16), 2x (18 14)	, 1x 12		
AWG number as coded connectable of section	conductor cross				
 for auxiliary contacts 		18 14			
Safety related data					
product function					
 mirror contact according to IEC 60 		Yes			
 positively driven operation accordi 5-1 	-	No			
B10 value with high demand rate according to SN 31920 T1 value for proof test interval or service life according to		1 000 000 20 a			
IEC 61508 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		
 safety-related switching OFF 		Yes			
Certificates/ approvals					
General Product Approval					
Confirmation			<u>KC</u>	EHC	
EMC Functional Safety/Safety o Machinery	f Declaration o	f Conformity	Test Certificates		
RCM Type Examination Certificate	EG-Konf.	UK CA	Type Test Certific- ates/Test Report	Special Test Certific- ate	
Test Certificates Marine / Shippi	ng				



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=3RT1055-6AP36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1055-6AP36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1055-6AP36

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

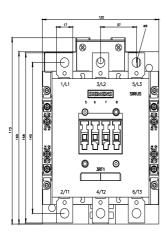
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1055-6AP36&lang=en

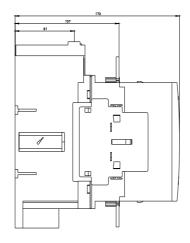
Characteristic: Tripping characteristics, I²t, Let-through current

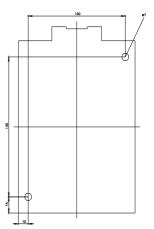
https://support.industry.siemens.com/cs/ww/en/ps/3RT1055-6AP36/char

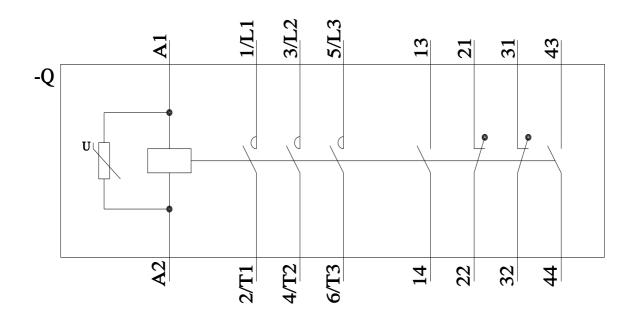
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1055-6AP36&objecttype=14&gridview=view1









last modified:

2/10/2023 🖸