## SIEMENS

## Data sheet

## 3RT2036-3XJ44-0LA2



traction contactor, AC-3e/AC-3, 51 A, 22 kW / 400 V, 3-pole, 72 V DC, 0.7-1.25\* Us, electronic drive, with integrated varistor, auxiliary contacts: 2 NO + 2 NC, main circuit: screw terminal, control and auxiliary circuit: spring-loaded terminal, size: S2, removable auxiliary switch

274				
product brand name	SIRIUS			
product designation	Power contactor			
design of the product	With extended operating range			
product type designation	3RT2			
General technical data				
size of contactor	S2			
product extension				
<ul> <li>function module for communication</li> </ul>	No			
auxiliary switch	Yes			
power loss [W] for rated value of the current				
<ul> <li>at AC in hot operating state</li> </ul>	12 W			
<ul> <li>at AC in hot operating state per pole</li> </ul>	4 W			
type of calculation of power loss depending on pole	quadratic			
insulation voltage				
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V			
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V			
surge voltage resistance				
<ul> <li>of main circuit rated value</li> </ul>	6 kV			
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV			
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 ∨			
shock resistance at rectangular impulse				
• at DC	6.1g / 5 ms, 3.7g / 10 ms			
shock resistance with sine pulse				
• at DC	9.6g / 5 ms, 5.8g / 10 ms			
mechanical service life (operating 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 according to IEC 81346-2	Q			
Substance Prohibitance (Date)	10/01/2014			
SVHC substance name	Lead monoxide (lead oxide) - 1317-36-8			
Weight	1.206 kg			
Ambient conditions				
installation altitude at height above sea level maximum	2 000 m			
ambient temperature				
<ul> <li>during operation</li> </ul>	-40 +70 °C			
<ul> <li>during storage</li> </ul>	-55 +80 °C			
relative humidity minimum	10 %			
relative humidity at 55 °C according to IEC 60068-2-30	95 %			

maximum	
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	107 kg
global warming potential [CO2 eq] during manufacturing	5.88 kg
global warming potential [CO2 eq] during operation	102 kg
global warming potential [CO2 eq] after end of life	-0.988 kg
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	690 V
• at AC-3e rated value maximum	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	70 A
• at AC-1	
- up to 690 V at ambient temperature 40 °C rated	70 A
value	
— up to 690 V at ambient temperature 60 °C rated value	60 A
• at AC-2 at 400 V rated value	50 A
• at AC-3	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
• at AC-3e	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
at AC-4 at 400 V rated value	41 A
minimum cross-section in main circuit	05 mm²
<ul> <li>at maximum AC-1 rated value</li> <li>at maximum Ith rated value</li> </ul>	25 mm² 25 mm²
at maximum itn rated value     operational current for approx. 200000 operating cycles at	20 11111
AC-4	
• at 400 V rated value	24 A
at 690 V rated value	20 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 110 V rated value	4.5 A
- at 220 V rated value	1A
- at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
<ul> <li>with 2 current paths in series at DC-1</li> <li>— at 24 V rated value</li> </ul>	55 Δ
— at 24 v rated value — at 110 V rated value	55 A 45 A
— at 220 V rated value	40 A 5 A
— at 440 V rated value	1A
— at 600 V rated value	0.8 A
with 3 current paths in series at DC-1	
— at 24 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	35 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.1 A
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— at 600 V rated value	0.06 A				
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>					
— at 24 V rated value	55 A				
— at 110 V rated value	25 A				
— at 220 V rated value	5 A				
— at 440 V rated value	0.27 A				
— at 600 V rated value	0.16 A				
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>					
— at 24 V rated value	55 A				
— at 110 V rated value	55 A				
— at 220 V rated value	25 A				
— at 440 V rated value	0.6 A				
— at 600 V rated value	0.35 A				
operating power					
• at AC-2 at 400 V rated value	22 kW				
• at AC-3					
— at 230 V rated value	15 kW				
— at 400 V rated value	22 kW				
— at 500 V rated value	30 kW				
— at 690 V rated value	22 kW				
• at AC-3e					
— at 230 V rated value	15 kW				
— at 400 V rated value	22 kW				
— at 500 V rated value	30 kW				
— at 690 V rated value	22 kW				
operating power for approx. 200000 operating cycles at AC-					
4					
• at 400 V rated value	12.6 kW				
• at 690 V rated value	18.2 kW				
short-time withstand current in cold operating state up to 40 $^\circ \text{C}$					
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	937 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	697 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	468 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	282 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	229 A; Use minimum cross-section acc. to AC-1 rated value				
no-load switching frequency					
• at DC	1 500 1/h				
operating frequency					
• at AC-2 at AC-3e maximum	600 1/h				
• at AC-4 maximum	250 1/h				
Ratings for railway applications					
thermal current (Ith) up to 690 V					
• up to 40 °C according to IEC 60077 rated value	70 A				
• up to 70 °C according to IEC 60077 rated value	55 A				
Control circuit/ Control					
type of voltage	DC				
type of voltage of the control supply voltage	DC				
control supply voltage at DC rated value	72 V				
operating range factor control supply voltage rated value of					
magnet coil at DC					
• initial value	0.7				
• full-scale value	1.25				
design of the surge suppressor	with varistor				
duration of locked-rotor current	230 ms				
closing power of magnet coil at DC	23 W				
holding power of magnet coil at DC	1 W				
closing delay					
• at DC	35 110 ms				
opening delay					
• at DC	30 55 ms				

arcing time	10 20 ms		
control version of the switch operating mechanism	Standard A1 - A2		
Auxiliary circuit			
number of NC contacts for auxiliary contacts	2		
instantaneous contact	2		
number of NO contacts for auxiliary contacts	2		
instantaneous contact	2		
operational current at AC-12 maximum	2 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	1 A		
• at 600 V rated value	0.15 A		
operational current at DC-13			
• at 24 V rated value	6 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		
UL/CSA ratings			
full-load current (FLA) for 3-phase AC motor			
• at 480 V rated value	52 A		
at 600 V rated value	52 A		
yielded mechanical performance [hp]			
for single-phase AC motor			
— at 110/120 V rated value	3 hp		
— at 230 V rated value	10 hp		
for 3-phase AC motor			
- at 200/208 V rated value	15 hp		
- at 220/230 V rated value	15 hp		
- at 460/480 V rated value	40 hp		
- at 575/600 V rated value	50 hp		
contact rating of auxiliary contacts according to UL Short-circuit protection	A600 / Q600		
	No		
_ product function short circuit protection design of the fuse link			
for short-circuit protection of the main circuit			
<ul> <li>for short-circuit protection of the main circuit</li> <li>— with type of coordination 1 required</li> </ul>	gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80		
wartype of opprandation in required	kA)		
- with type of assignment 2 required	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)		
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)		
Installation/ mounting/ dimensions			
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface		
fastening method side-by-side mounting	Yes		
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
height	114 mm		
width	55 mm		
depth	178 mm		
required spacing			
<ul> <li>with side-by-side mounting</li> </ul>			

	10				
— forwards	10 mm				
— upwards	10 mm				
— downwards	10 mm				
— at the side	0 mm				
<ul> <li>for grounded parts</li> </ul>					
— forwards	10 mm				
— upwards	10 mm				
— at the side	6 mm				
— downwards	10 mm				
<ul> <li>for live parts</li> </ul>					
— forwards	10 mm				
— upwards	10 mm				
— downwards	10 mm				
— at the side	6 mm				
Connections/ Terminals					
type of electrical connection					
<ul> <li>for main current circuit</li> </ul>	screw-type terminals				
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals				
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Spring-type terminals				
• of magnet coil	Spring-type terminals				
type of connectable conductor cross-sections for main contacts					
solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)				
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 25 mm²), 1x (1 35 mm²)				
type of connectable conductor cross-sections					
<ul> <li>for auxiliary contacts</li> </ul>					
— solid or stranded	2x (0.5 2.5 mm²)				
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm <sup>2</sup> )				
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm <sup>2</sup> )				
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 14)				
AWG number as coded connectable conductor cross section					
for main contacts	18 1				
	18 1 20 14				
for main contacts					
<ul><li>for main contacts</li><li>for auxiliary contacts</li></ul>					
<ul> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>Safety related data</li> </ul>					
for main contacts         for auxiliary contacts Safety related data product function	20 14				
for main contacts         for auxiliary contacts         Safety related data         product function         e mirror contact according to IEC 60947-4-1	20 14 Yes				
for main contacts         for auxiliary contacts         Safety related data         product function         e mirror contact according to IEC 60947-4-1         e positively driven operation according to IEC 60947-5-1	20 14 Yes No				
<ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> Safety related data product function <ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> <li>suitable for safety function</li> </ul>	20 14 Yes No Yes				
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<ul> <li>for main contacts         <ul> <li>for auxiliary contacts</li> </ul> </li> <li>Safety related data         <ul> <li>product function                 <ul></ul></li></ul></li></ul>	20 14 Yes No Yes Yes 20 a				
<ul> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>Safety related data</li> <li>product function         <ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> <li>suitable for safety function</li> <li>suitability for use safety-related switching OFF</li> <li>service life maximum</li> <li>test wear-related service life necessary</li> </ul> </li> </ul>	20 14 Yes No Yes Yes 20 a				
for main contacts         e for auxiliary contacts         Safety related data         product function         e mirror contact according to IEC 60947-4-1         e positively driven operation according to IEC 60947-5-1         e suitable for safety function         suitability for use safety-related switching OFF         service life maximum         test wear-related service life necessary         proportion of dangerous failures	20 14 Yes No Yes Yes 20 a Yes				
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<ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> Safety related data product function <ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> <li>suitable for safety function</li> <li>suitability for use safety-related switching OFF</li> <li>service life maximum</li> </ul> test wear-related service life necessary proportion of dangerous failures <ul> <li>with low demand rate according to SN 31920</li> <li>B10 value with high demand rate according to SN 31920</li> </ul> failure rate [FIT] with low demand rate according to SN	20 14 Yes No Yes 20 a Yes 40 % 73 %				
<ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> Safety related data product function <ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> <li>suitable for safety function</li> <li>suitability for use safety-related switching OFF</li> <li>service life maximum</li> <li>test wear-related service life necessary</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>B10 value with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> </ul>	20 14 Yes No Yes Yes 20 a Yes 40 % 73 % 1 000 000				
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<ul> <li>for main contacts <ul> <li>for auxiliary contacts</li> </ul> </li> <li>Safety related data</li> <li>product function <ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> <li>suitable for safety function</li> </ul> </li> <li>suitability for use safety-related switching OFF</li> <li>service life maximum <ul> <li>test wear-related service life necessary</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>B10 value with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>ISO 13849</li> <li>device type according to ISO 13849-1</li> </ul> </li> </ul>	20 14 Yes No Yes Yes 20 a Yes 40 % 73 % 1 000 000 100 FIT				
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<ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> Safety related data product function <ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> <li>suitable for safety function</li> <li>suitability for use safety-related switching OFF</li> <li>service life maximum</li> <li>test wear-related service life necessary</li> <li>proportion of dangerous failures <ul> <li>with low demand rate according to SN 31920</li> <li>B10 value with high demand rate according to SN 31920</li> </ul> </li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>ISO 13849</li> <li>device type according to ISO 13849-1</li> <li>overdimensioning according to ISO 13849-2 necessary</li> <li>IEC 61508</li> <li>safety device type according to IEC 61508-2</li> <li>Electrical Safety</li> </ul>	20 14 Yes No Yes Yes 20 a Yes 40 % 73 % 1 000 000 100 FIT 3 Yes Type A				
<ul> <li>for main contacts <ul> <li>for auxiliary contacts</li> </ul> </li> <li>Safety related data</li> <li>product function <ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> <li>suitable for safety function</li> </ul> </li> <li>suitability for use safety-related switching OFF</li> <li>service life maximum <ul> <li>test wear-related service life necessary</li> <li>proportion of dangerous failures</li> <li>with high demand rate according to SN 31920</li> <li>B10 value with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>ISO 13849</li> <li>device type according to ISO 13849-1</li> <li>overdimensioning according to ISO 13849-2 necessary</li> <li>IEC 61508</li> <li>safety device type according to IEC 61508-2</li> <li>Electrical Safety</li> <li>protection class IP on the front according to IEC 60529</li> </ul> </li> </ul>	20 14 Yes No Yes Yes 20 a Yes 40 % 73 % 1 000 000 100 FIT 3 Yes Type A				
<ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> Safety related data product function <ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> <li>suitable for safety function</li> <li>suitability for use safety-related switching OFF</li> <li>service life maximum</li> <li>test wear-related service life necessary</li> <li>proportion of dangerous failures</li> <li>with high demand rate according to SN 31920</li> <li>B10 value with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>ISO 13849</li> <li>device type according to ISO 13849-1</li> <li>overdimensioning according to ISO 13849-2 necessary</li> <li>IEC 61508</li> <li>safety device type according to IEC 61508-2</li> <li>Electrical Safety</li> <li>protection class IP on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li> </ul>	20 14 Yes No Yes Yes 20 a Yes 40 % 73 % 1 000 000 100 FIT 3 Yes Type A				
<ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> Safety related data product function <ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> <li>suitable for safety function</li> <li>suitability for use safety-related switching OFF</li> <li>service life maximum</li> <li>test wear-related service life necessary</li> <li>proportion of dangerous failures <ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> </ul> </li> <li>B10 value with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>ISO 13849</li> <li>device type according to ISO 13849-1</li> <li>overdimensioning according to ISO 13849-2 necessary</li> <li>IEC 61508</li> <li>safety device type according to IEC 61508-2</li> <li>Electrical Safety</li> <li>protection class IP on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li> </ul>	20 14 Yes No Yes Yes 20 a Yes 40 % 73 % 1 000 000 100 FIT 3 Yes Type A IP20 finger-safe, for vertical contact from the front				
<ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> Safety related data product function <ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> <li>suitable for safety function</li> </ul> suitability for use safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures <ul> <li>with low demand rate according to SN 31920</li> </ul> B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 ISO 13849 device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary IEC 61508 safety device type according to IEC 61508-2 Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Communication/ Protocol product function bus communication	20 14 Yes No Yes Yes 20 a Yes 40 % 73 % 1 000 000 100 FIT 3 Yes Type A				
<ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> Safety related data product function <ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> <li>suitable for safety function</li> <li>suitability for use safety-related switching OFF</li> <li>service life maximum</li> <li>test wear-related service life necessary</li> <li>proportion of dangerous failures <ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> </ul> </li> <li>B10 value with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>ISO 13849</li> <li>device type according to ISO 13849-1</li> <li>overdimensioning according to ISO 13849-2 necessary</li> <li>IEC 61508</li> <li>safety device type according to IEC 61508-2</li> <li>Electrical Safety</li> <li>protection class IP on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li> </ul>	20 14 Yes No Yes Yes 20 a Yes 40 % 73 % 1 000 000 100 FIT 3 Yes Type A IP20 finger-safe, for vertical contact from the front				

CCC	<u>Confirmation</u>	UK CA	CE EG-Konf.		KC
General Product Approval	EMV	Test Certificates		Marine / Shipping	
EAC	RCM	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	ABS	B U REAU VERITAS
Marine / Shipping				other	Railway
Lloyd's Register urs	PRS	RINA	RMRS	<u>Confirmation</u>	Special Test Certific- ate
Railway	Environment				
Type Test Certific- ates/Test Report	EPD	Environmental Con- firmations			
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=3RT2036-3XJ44-0LA2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2036-3XJ44-0LA2

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-3XJ44-0LA2

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

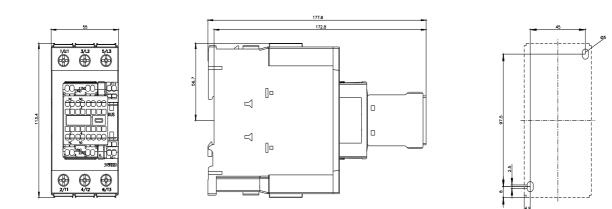
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2036-3XJ44-0LA2&lang=en

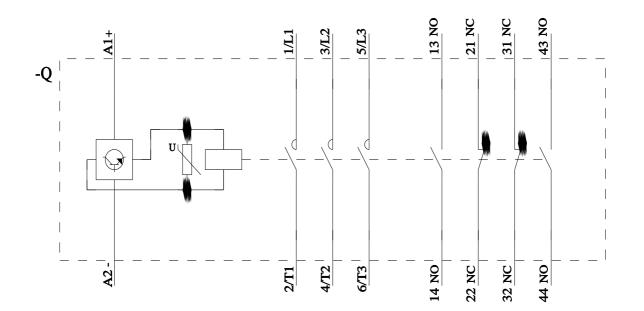
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

https://support.industry.si emens.com/cs/ww/en/ps/3RT2 A2/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2036-3XJ44-0LA2&objecttype=14&gridview=view1





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