# **SIEMENS**

Data sheet 3RT2024-1AB04



CONTACTOR, AC-3, 5.5KW/400V, 2NO+2NC, AC 24V 50HZ, 3-POLE, SZ S0 SCREW TERMINAL REMOVABLE AUX. SWITCH

product brand name		SIRIUS
Product designation		3RT2 contactor
General technical data:		
Insulation voltage		
● Rated value	V	690

Insulation voltage		
Rated value	V	690
Degree of pollution		3
Surge voltage resistance Rated value	kV	6
Mechanical service life (switching cycles)		
of the contactor typical		10 000 000
<ul> <li>of the contactor with added electronics- compatible 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
Thermal short-time current restricted to 10 s	Α	110
Protection class IP		
• on the front		IP20
• of the terminal		IP20
Equipment marking		
• acc. to DIN EN 61346-2		Q
• acc. to DIN EN 81346-2		Q

Main circuit:	
Number of poles for main current circuit	3
Number of NC contacts for main contacts	0
Number of NO contacts for main contacts	3
Operating voltage	

<ul> <li>at AC-3 Rated value maximum</li> </ul>	V	690
Operating current		
• at AC-1		
— at 400 V at ambient temperature 40 °C Rated value	Α	40
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ Rated value	Α	40
— up to 690 V at ambient temperature 60 °C Rated value	А	35
• at AC-2 at 400 V Rated value	Α	12
• at AC-3		
— at 400 V Rated value	Α	12
— at 500 V Rated value	Α	12
— at 690 V Rated value	Α	9
• at AC-4 at 400 V Rated value	Α	12.5
Operating current with 1 current path		
• at DC-1		
— at 24 V Rated value	Α	35
— at 110 V Rated value	Α	4.5
— at 220 V Rated value	Α	1
— at 440 V Rated value	Α	0.4
— at 600 V Rated value	Α	0.25
• at DC-3 at DC-5		
— at 24 V Rated value	Α	20
— at 110 V Rated value	Α	2.5
— at 220 V Rated value	Α	1
— at 440 V Rated value	Α	0.09
— at 600 V Rated value	Α	0.06
Operating current with 2 current paths in series		
• at DC-1		
— at 24 V Rated value	Α	35
— at 110 V Rated value	Α	35
— at 220 V Rated value	Α	5
— at 440 V Rated value	Α	1
— at 600 V Rated value	Α	0.8
• at DC-3 at DC-5		
— at 110 V Rated value	Α	15
— at 220 V Rated value	Α	3
— at 24 V Rated value	Α	35
— at 440 V Rated value	Α	0.27
— at 600 V Rated value	Α	0.16
Operating current with 3 current paths in series		

• at DC-1		
— at 24 V Rated value	Α	35
— at 110 V Rated value	Α	35
— at 220 V Rated value	Α	35
— at 440 V Rated value	Α	2.9
— at 600 V Rated value	Α	1.4
• at DC-3 at DC-5		
— at 110 V Rated value	Α	35
— at 220 V Rated value	Α	10
— at 24 V Rated value	Α	35
— at 440 V Rated value	Α	0.6
— at 600 V Rated value	Α	0.6
Operating power		
• at AC-1 at 400 V Rated value	kW	23
• at AC-2 at 400 V Rated value	kW	5.5
• at AC-4 at 400 V Rated value	kW	5.5
Operating power		
• at AC-1		
— at 230 V at 60 °C Rated value	kW	13.3
— at 230 V Rated value	kW	13.3
— at 400 V at 60 °C Rated value	kW	23
— at 690 V at 60 °C Rated value	kW	40
— at 690 V Rated value	kW	40
• at AC-3		
— at 230 V Rated value	kW	3
— at 400 V Rated value	kW	5.5
— at 690 V Rated value	kW	7.5
Operating power for ≥ 200000 operating cycles at AC-4		
• at 400 V Rated value	kW	2.6
• at 690 V Rated value	kW	4.6
Operating frequency		
• at AC-3 maximum	1/h	1 000
Control circuit/ Control:		
Type of voltage of the control supply voltage		AC
Control supply voltage with AC		
● at 50 Hz Rated value	V	24
Operating range factor control supply voltage rated		
value of the magnet coil with AC		

Αι	ıvil	i o	r\ /	ci	COL	110
-	1 X II	10	II V	L I		ш.

• at 50 Hz

0.8 ... 1.1

Number of NC contacts		
for auxiliary contacts		
— instantaneous contact		2
Number of NO contacts		
• for auxiliary contacts		
— instantaneous contact		2
Product expansion Auxiliary switch		No
Operating current at AC-15		
• at 230 V Rated value	Α	6
• at 400 V Rated value	Α	3
• at 690 V Rated value	Α	1
Operating current		
• at DC-12 at 125 V Rated value	Α	2
• at DC-12 at 220 V Rated value	Α	1
• at DC-12 at 600 V Rated value	Α	0.15
• at DC-13 at 125 V Rated value	Α	0.9
• at DC-13 at 220 V Rated value	Α	0.3
• at DC-13 at 600 V Rated value	Α	0.1
Operating current		
• at DC-12		
— at 60 V Rated value	Α	6
— at 110 V Rated value	Α	3
• at DC-13		
— at 24 V Rated value	Α	6
— at 60 V Rated value	Α	2
— at 110 V Rated value	Α	1
Contact reliability of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)
JL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	Α	11
• at 600 V Rated value	Α	11
yielded mechanical performance [hp]		
• for single-phase AC motor at 110/120 V Rated value	metric hp	1
<ul> <li>for single-phase AC motor at 230 V Rated value</li> </ul>	metric hp	2
• for three-phase AC motor at 200/208 V Rated value	metric hp	3
• for three-phase AC motor at 220/230 V Rated value	metric hp	3
• for three-phase AC motor at 460/480 V Rated value	metric hp	7.5

• for three-phase AC motor at 575/600 V Rated	metric	10
value	hp	
Contact rating of the auxiliary contacts acc. to UL		A600 / Q600

Short-circuit:	
Design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
— with type of assignment 1 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 63 A
— with type of assignment 2 required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 25 A
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gL/gG: 10 A

nstallation/ mounting/ dimensions:				
mounting position		+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/-22.5° on vertical mounting surface		
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022		
Side-by-side mounting		Yes		
Height	mm	85		
Width	mm	45		
Depth	mm	141		
Required spacing				
<ul><li>with side-by-side mounting</li></ul>				
— forwards	mm	0		
— Backwards	mm	0		
— upwards	mm	0		
— downwards	mm	0		
— at the side	mm	0		
<ul><li>for grounded parts</li></ul>				
— forwards	mm	0		
— Backwards	mm	0		
— upwards	mm	0		
— at the side	mm	6		
— downwards	mm	0		
• for live parts				
— forwards	mm	0		
— Backwards	mm	0		
— upwards	mm	0		
— downwards	mm	0		
— at the side	mm	6		

#### Connections/ Terminals:

• for main current circuit     • for auxiliary and control current circuit  Type of connectable conductor cross-section     • for main contacts     — single or multi-stranded     — finely stranded with core end processing     • for AWG conductors for main contacts     — single or multi-stranded     — finely stranded with core end processing     • for auxiliary contacts     — single or multi-stranded     — finely stranded with core end processing     • for auxiliary contacts     — single or multi-stranded     — finely stranded with core end processing     • for AWG conductors for auxiliary contacts  Apparent pick-up power of the magnet coil with AC     • at 50 Hz  Safety related data:  B10 value with high demand rate acc. to SN 31920 Proportion of dangerous failures     • with low demand rate acc. to SN 31920     • with high demand rate acc. to SN 31920     • with high demand rate acc. to SN 31920     • with high demand rate acc. to SN 31920 Failure rate [FIT] with low demand rate acc. to SN 31920 Product function Mirror contact acc. to IEC 60947-4-1 T1 value for proof test interval or service life acc. to [EC 61508 Protection against electrical shock  Mechanical data: Size of contactor  S0  Ambient conditions: Installation altitude at helght above sea level maximum  Ambient temperature     • during operation     • C    -25 +60     • during storage	Type of electrical connection		
Type of connectable conductor cross-section  • for main contacts  — single or multi-stranded — finely stranded with core end processing • for AWG conductors for main contacts  • single or multi-stranded — finely stranded with core end processing • for auxiliary contacts — single or multi-stranded — finely stranded with core end processing • for AWG conductors for auxiliary contacts — single or multi-stranded — finely stranded with core end processing • for AWG conductors for auxiliary contacts  Apparent pick-up power of the magnet coll with AC • at 50 Hz   Safety related data:  B10 value with high demand rate acc. to SN 31920  Proportion of dangerous failures • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920  Product function Mirror contact acc. to IEC 60947-4-1 T1 value for proof test interval or service life acc. to IEC 61508  Protection against electrical shock  Mechanical data:  Size of contactor  Ambient conditions:  Installation altitude at height above sea level maximum  Ambient temperature • during operation  *C -25 +60	for main current circuit		screw-type terminals
• for main contacts     — single or multi-stranded     — finely stranded with core end processing     • for AWG conductors for main contacts     • for auxiliary contacts     — single or multi-stranded     — finely stranded with core end processing     • for auxiliary contacts     — single or multi-stranded     — finely stranded with core end processing     • for AWG conductors for auxiliary contacts      — single or multi-stranded     — finely stranded with core end processing     • for AWG conductors for auxiliary contacts  Apparent pick-up power of the magnet coil with AC     • at 50 Hz  Safety related data:  B10 value with high demand rate acc. to SN 31920  Proportion of dangerous failures  • with low demand rate acc. to SN 31920  • with high demand rate acc. to SN 31920  • with high demand rate acc. to SN 31920  Failure rate [FIT] with low demand rate acc. to SN 31920  Product function Mirror contact acc. to IEC 60947-4-1  T1 value for proof test interval or service life acc. to IEC 61508  Protection against electrical shock  finger-safe  Mechanical data:  Size of contactor  S0  Ambient conditions:  Installation altitude at height above sea level maximum  Ambient temperature  • during operation  *C -25 +60	<ul> <li>for auxiliary and control current circuit</li> </ul>		screw-type terminals
single or multi-stranded finely stranded with core end processing  • for AWG conductors for main contacts • for auxiliary contacts single or multi-stranded finely stranded with core end processing • for AWG conductors for main contacts  • single or multi-stranded finely stranded with core end processing • for AWG conductors for auxiliary contacts  single or multi-stranded finely stranded with core end processing • for AWG conductors for auxiliary contacts  Apparent pick-up power of the magnet coll with AC • at 50 Hz  Safety related data:  B10 value with high demand rate acc. to SN 31920  Proportion of dangerous failures • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920  Failure rate [FIT] with low demand rate acc. to SN 31920  Fit 100  T1 value for proof test interval or service life acc. to [EC 60947-4-1]  T1 value for proof test interval or service life acc. to [EC 60947-4-1]  T1 value for proof test interval or service life acc. to [EC 60947-4-1]  Size of contactor  S0  Ambient conditions:  Installation altitude at height above sea level maximum  Ambient temperature • during operation  *C -25 +60	Type of connectable conductor cross-section		
finely stranded with core end processing  • for AWG conductors for main contacts  • for auxillary contacts  single or multi-stranded  finely stranded with core end processing  • for AWG conductors for auxiliary contacts  single or multi-stranded  finely stranded with core end processing  • for AWG conductors for auxiliary contacts  Apparent pick-up power of the magnet coil with AC  • at 50 Hz  Safety related data:  B10 value with high demand rate acc. to SN 31920  Proportion of dangerous failures  • with low demand rate acc. to SN 31920  • with high demand rate acc. to SN 31920  • with high demand rate acc. to SN 31920  • with high demand rate acc. to SN 31920  • with high demand rate acc. to SN 31920  • with low demand rate acc. to SN 31920  • with low demand rate acc. to SN 31920  • with low demand rate acc. to SN 31920  • with low demand rate acc. to SN 31920  • with low demand rate acc. to SN 31920  • with low demand rate acc. to SN 31920  • with low demand rate acc. to SN 31920  • with low demand rate acc. to SN 31920  • with low demand rate acc. to SN 31920  • with low demand rate acc. to SN 31920  • with ligh demand rate acc	• for main contacts		
• for AWG conductors for main contacts     • for auxiliary contacts     • single or multi-stranded     — finely stranded with core end processing     • for AWG conductors for auxiliary contacts  Apparent pick-up power of the magnet coil with AC     • at 50 Hz  Safety related data:  B10 value with high demand rate acc. to SN 31920  Proportion of dangerous failures     • with low demand rate acc. to SN 31920  • with high demand rate acc. to SN 31920  Proportion of the magnet rate acc. to SN 31920  • with high demand rate acc. to SN 31920  • with high demand rate acc. to SN 31920  • with high demand rate acc. to SN 31920  • with low demand rate acc. to SN 31920  • with low demand rate acc. to SN 31920  • with ligh demand rate acc. to SN 31920  • with low demand rate acc. to SN 31920  • with low demand rate acc. to SN 31920  • with ligh demand rate acc. to	<ul><li>— single or multi-stranded</li></ul>		2x (1 2,5 mm²), 2x (2,5 10 mm²)
• for auxiliary contacts     — single or multi-stranded     — finely stranded with core end processing     • for AWG conductors for auxiliary contacts  Apparent pick-up power of the magnet coll with AC     • at 50 Hz   Safety related data:  B10 value with high demand rate acc. to SN 31920  Proportion of dangerous failures     • with low demand rate acc. to SN 31920  • with high demand rate acc. to SN 31920  Product function Mirror contact acc. to IEC 60947-4-1  T1 value for proof test interval or service life acc. to IEC 61508  Protection against electrical shock  Mechanical data:  Size of contactor  Ambient conditions:  Installation altitude at height above sea level maximum  Ambient temperature     • during operation  *C -25 +60	<ul> <li>finely stranded with core end processing</li> </ul>		2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
- single or multi-stranded - finely stranded with core end processing • for AWG conductors for auxiliary contacts  Apparent pick-up power of the magnet coil with AC • at 50 Hz  Safety related data:  B10 value with high demand rate acc. to SN 31920 • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920  Failure rate [FIT] with low demand rate acc. to SN 31920  Product function Mirror contact acc. to IEC 60947-4-1 T1 value for proof test interval or service life acc. to IEC 61508 Protection against electrical shock  Mechanical data:  Size of contactor  Ambient conditions:  Installation altitude at height above sea level maximum  Ambient temperature • during operation  2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²) 2x (20 16), 2x (18 14)  4x (0.5 1,5 mm²), 2x (0.75 2,5 mm²) 2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²) 2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²) 2x (20 16), 2x (18 14)  4x (0.5 1,5 mm²), 2x (0.75 2,5 mm²) 2x (20 16), 2x (18 14)  4x (20 16), 2x	<ul> <li>for AWG conductors for main contacts</li> </ul>		2x (16 12), 2x (14 8)
- finely stranded with core end processing  • for AWG conductors for auxiliary contacts  Apparent pick-up power of the magnet coll with AC  • at 50 Hz  Safety related data:  B10 value with high demand rate acc. to SN 31920  Proportion of dangerous failures  • with low demand rate acc. to SN 31920  • with high demand rate acc. to SN 31920  • with high demand rate acc. to SN 31920  Failure rate [FIT] with low demand rate acc. to SN 31920  Product function Mirror contact acc. to IEC 60947-4-1  T1 value for proof test interval or service life acc. to IEC 61508  Protection against electrical shock  Mechanical data:  Size of contactor  Ambient conditions:  Installation altitude at height above sea level maximum  Ambient temperature  • during operation  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (20 16), 2x (18 14)  4x (10 14)  1 000 000  1 000 000  1 000 000  1 000 000	<ul> <li>for auxiliary contacts</li> </ul>		
• for AWG conductors for auxiliary contacts  Apparent pick-up power of the magnet coil with AC     • at 50 Hz  V·A 65  Safety related data:  B10 value with high demand rate acc. to SN 31920  Proportion of dangerous failures     • with low demand rate acc. to SN 31920     • with high demand rate acc. to SN 31920     • with high demand rate acc. to SN 31920     • with high demand rate acc. to SN 31920     • with high demand rate acc. to SN 31920  Product function Mirror contact acc. to IEC 60947-4-1  T1 value for proof test interval or service life acc. to IEC 61508  Protection against electrical shock  Mechanical data:  Size of contactor  Ambient conditions:  Installation altitude at height above sea level maximum  Ambient temperature     • during operation  C C -25 +60	<ul><li>single or multi-stranded</li></ul>		2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
Apparent pick-up power of the magnet coil with AC  • at 50 Hz  Safety related data:  B10 value with high demand rate acc. to SN 31920  Proportion of dangerous failures  • with low demand rate acc. to SN 31920  • with high demand rate acc. to SN 31920  • with high demand rate acc. to SN 31920  • with high demand rate acc. to SN 31920  Failure rate [FIT] with low demand rate acc. to SN 31920  Product function Mirror contact acc. to IEC 60947-4-1  T1 value for proof test interval or service life acc. to IEC 61508  Protection against electrical shock  Mechanical data:  Size of contactor  S0  Ambient conditions:  Installation altitude at height above sea level maximum  Amblent temperature  • during operation  V-A 65  1 000 000  1 000 000  1 000 000  4 0  4	<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
* at 50 Hz     * At 50 Hz     * At 50 Hz  B10 value with high demand rate acc. to SN 31920 Proportion of dangerous failures     * with low demand rate acc. to SN 31920     * with high demand rate acc. to SN 31920     * with high demand rate acc. to SN 31920     * with high demand rate acc. to SN 31920     * with low demand rate acc. to SN 31920     * Failure rate [FIT] with low demand rate acc. to SN 31920 Product function Mirror contact acc. to IEC 60947-4-1     * T1 value for proof test interval or service life acc. to IEC 61508 Protection against electrical shock    Mechanical data:	<ul> <li>for AWG conductors for auxiliary contacts</li> </ul>		2x (20 16), 2x (18 14)
Safety related data:  B10 value with high demand rate acc. to SN 31920	Apparent pick-up power of the magnet coil with AC		
B10 value with high demand rate acc. to SN 31920 Proportion of dangerous failures  • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920  • with high demand rate acc. to SN 31920  Failure rate [FIT] with low demand rate acc. to SN 31920  Product function Mirror contact acc. to IEC 60947-4-1  T1 value for proof test interval or service life acc. to IEC 61508  Protection against electrical shock  Mechanical data:  Size of contactor  S0  Ambient conditions:  Installation altitude at height above sea level maximum  Ambient temperature  • during operation  1 000 000  1 000 000  40  40  40  40  40  40  40  40	● at 50 Hz	V·A	65
Proportion of dangerous failures  • with low demand rate acc. to SN 31920 % 40  • with high demand rate acc. to SN 31920 % 73  Failure rate [FIT] with low demand rate acc. to SN 31920 Product function Mirror contact acc. to IEC 60947-4-1 Yes  T1 value for proof test interval or service life acc. to IEC 61508  Protection against electrical shock finger-safe  Mechanical data:  Size of contactor S0  Ambient conditions:  Installation altitude at height above sea level maximum  Ambient temperature  • during operation °C -25 +60	Safety related data:		
with low demand rate acc. to SN 31920	<del>-</del>		1 000 000
● with high demand rate acc. to SN 31920 % 73  Failure rate [FIT] with low demand rate acc. to SN 31920  Product function Mirror contact acc. to IEC 60947-4-1 Yes  T1 value for proof test interval or service life acc. to IEC 61508  Protection against electrical shock finger-safe  Mechanical data:  Size of contactor S0  Ambient conditions:  Installation altitude at height above sea level maximum  Ambient temperature  ● during operation °C -25 +60	Proportion of dangerous failures		
Failure rate [FIT] with low demand rate acc. to SN 31920  Product function Mirror contact acc. to IEC 60947-4-1  T1 value for proof test interval or service life acc. to IEC 61508  Protection against electrical shock  Mechanical data:  Size of contactor  S0  Ambient conditions:  Installation altitude at height above sea level maximum  Ambient temperature  • during operation  • C -25 +60	<ul> <li>with low demand rate acc. to SN 31920</li> </ul>		40
Product function Mirror contact acc. to IEC 60947-4-1  T1 value for proof test interval or service life acc. to IEC 61508  Protection against electrical shock  Mechanical data:  Size of contactor  S0  Ambient conditions:  Installation altitude at height above sea level maximum  Ambient temperature  • during operation  • during operation  Yes  Yes  20  Installation altitude acc. to y 20  S0  S0  And Solve		%	73
T1 value for proof test interval or service life acc. to IEC 61508  Protection against electrical shock  Mechanical data:  Size of contactor  Ambient conditions:  Installation altitude at height above sea level maximum  Ambient temperature  • during operation  y 20  English acc. to provide acc. to pro		FIT	100
Protection against electrical shock  Mechanical data:  Size of contactor  So  Ambient conditions:  Installation altitude at height above sea level maximum  Ambient temperature  • during operation  finger-safe   m  2 000  max 2 000  cc  -25 +60	Product function Mirror contact acc. to IEC 60947-4-1		Yes
Mechanical data:  Size of contactor  Size of contactor  So  Ambient conditions:  Installation altitude at height above sea level maximum  Ambient temperature  • during operation  or C  -25 +60	-	У	20
Size of contactor  Ambient conditions:  Installation altitude at height above sea level maximum  Ambient temperature  • during operation  S0  m 2 000  column 3 000  colum	Protection against electrical shock		finger-safe
Ambient conditions:  Installation altitude at height above sea level m 2 000 maximum  Ambient temperature  • during operation °C -25 +60	Mechanical data:		
Installation altitude at height above sea level maximum  Ambient temperature  • during operation  m 2 000  c C -25 +60	Size of contactor		S0
maximum   Ambient temperature   ● during operation   °C   -25 +60			
Ambient temperature  ● during operation  °C -25 +60	•	m	2 000
● during operation °C -25 +60			
	•	°C	25 160
during storage	• .		
	during storage	· C	-55 +80
Certificates/ approvals:	Certificates/ approvals:		

## **General Product Approval**

**EMC** 

Functional Safety/Safety of Machinery

Type Examination











Declaration of	of
Conformity	

**Test Certificates** 

**Shipping Approval** 



EG-Konf.

Type Test
Certificates/Test
Report

Special Test Certificate







## **Shipping Approval**

other





LRS







Confirmation

GL

#### other

Environmental Confirmations



#### Further information

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

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

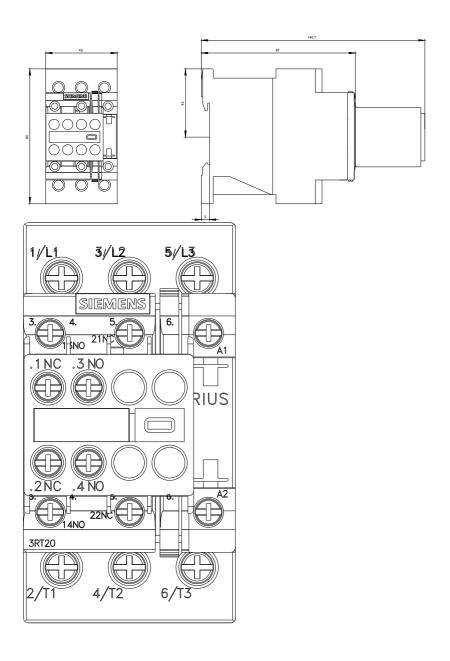
Cax online generator

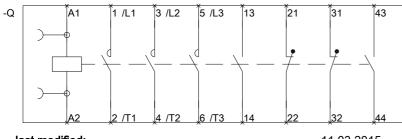
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT20241AB04}$ 

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

http://support.automation.siemens.com/WW/view/en/3RT20241AB04/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT20241AB04&lang=en





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