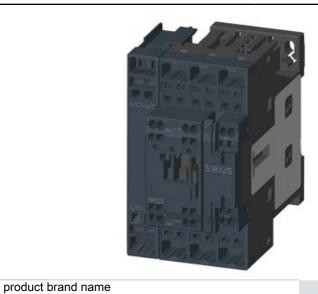
SIEMENS

Data sheet 3RT2327-2AB00



4NO CONTACTOR, AC1: 50A AC 24V 50HZ 4-POLE, 4NO, SZ: S0, SPRING-LOADED TERMINAL 1NO+1NC INTEGR.

Product designation		3RT2 contactor
General technical data:		
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
 of the contactor with added electronics- compatible auxiliary switch block typical 		5 000 000
 of the contactor with added auxiliary switch block typical 		10 000 000
Thermal short-time current restricted to 10 s	Α	260
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		4

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Operating voltage

Number of NC contacts for main contacts

Number of NO contacts for main contacts

0

• at AC-3 Rated value maximum	V	690
Operating current		
• at AC-1		
— at 400 V at ambient temperature 40 °C Rated value	Α	50
— up to 690 V at ambient temperature 40 °C Rated value	Α	50
— up to 690 V at ambient temperature 60 °C Rated value	Α	42
• at AC-2 at 400 V Rated value	Α	17
• at AC-3		
— at 400 V Rated value	Α	15.5
• at AC-4 at 400 V Rated value	Α	15.5
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 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
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	1
— at 440 V Rated value	Α	1
• 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
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	42
— at 440 V Rated value	Α	2.9

— 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
Operating power		
• at AC-1 at 400 V Rated value	kW	28
• at AC-2 at 400 V Rated value	kW	9
• at AC-4 at 400 V Rated value	kW	7.5
Operating power		
• at AC-1		
— at 230 V at 60 °C Rated value	kW	16
— at 230 V Rated value	kW	28
— at 400 V at 60 °C Rated value	kW	28
• at AC-3		
— at 230 V Rated value	kW	4
— at 400 V Rated value	kW	7.5
Operating frequency		
• at AC-3 maximum	1/h	750
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		
● at 50 Hz		0.8 1.1
● at 60 Hz		0.85 1.1
Auxiliary circuit:		
Number of NC contacts		
• for auxiliary contacts		
— instantaneous contact		1
Number of NO contacts	_	
• for auxiliary contacts		
 instantaneous contact 		1
Product expansion Auxiliary switch		Yes
Operating current at AC-15		
• at 230 V Rated value	Α	10
• 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	10
— 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)

UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	Α	14
• at 600 V Rated value	Α	17
yielded mechanical performance [hp]		
● for single-phase AC motor at 110/120 V Rated value	metric hp	1
 for single-phase AC motor at 230 V Rated value 	metric hp	3
 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	5
 for three-phase AC motor at 460/480 V Rated value 	metric hp	10
• for three-phase AC motor at 575/600 V Rated value	metric hp	15
Contact rating of the auxiliary contacts acc. to UL		A600 / Q600

Short-circuit:	
Design of the fuse link	
• for short-circuit protection of the main circuit	
— 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
 for short-circuit protection of the auxiliary switch required 	fuse gL/gG: 10 A

Installation/ mounting/ dimensions:

Mounting type screw and snap-on mounting surface • Side-by-side mounting Yes Height mm 85 Width mm 61 Depth mm 97 Required spacing *with side-by-side mounting - forwards mm 0 - Backwards mm 0 - at the side mm 0 - at the side mm 0 - forwards mm 0 - at the side mm 0 - for grounded parts "for grounded parts "mm 0 - growards mm 0 - at the side mm 0 - downwards mm 0 - at the side mm 0 - downwards mm 0 - for live parts "mm 0 - forwards mm 0 - Backwards mm 0 - growards mm 0 - forwards mm 0 - growards mm 0 - dow	mounting position		+/-180° rotation possible on vertical mounting
## Side-by-side mounting Side-by-side mounting Si			surface; can be tilted forward and backward by +/-
* Side-by-side mounting * Side-by-side mounting * Width * Width * Side-by-side mounting * With side-by-side mounting * With side-by-side mounting * With side-by-side mounting * Forwards * Backwards * Upwards * Height * For grounded parts * For grounded parts * For grounded parts * Forwards * Upwards *			
Height mm 85 Width mm 61 Depth mm 97 Required spacing • with side-by-side mounting — forwards mm 0 — Backwards mm 0 — downwards mm 0 — at the side mm 0 • for grounded parts — forwards mm 0 — at the side mm 0 — at the side mm 0 — at the side mm 0 — forwards mm 0 — at the side mm 0 — to rive parts — forwards mm 0 — downwards mm 0 — downwards mm 0 — downwards mm 0 — at the side mm 6 Connections/ Terminals: Type of electrical connection • for main current circuit • for auxiliary and control current circuit — single or multi-stranded — finely stranded without core end processing • for auxiliary contacts — single or multi-stranded • for auxiliary contacts — single or multi-stranded • for auxiliary contacts • for auxiliary contacts — single or multi-stranded • for auxiliary contacts • for auxiliary contacts — single or multi-stranded • for auxiliary contacts	Mounting type		
Width mm 61 Depth mm 97 Required spacing • with side-by-side mounting — forwards mm 0 — Backwards mm 0 — downwards mm 0 — at the side mm 0 — forwards mm 0 — at the side mm 0 — forwards mm 0 — at the side mm 0 — forwards mm 0 — at the side mm 0 — for live parts — forwards mm 0 — at the side mm 0 — at the side mm 0 — for iver parts — forwards mm 0 — at the side mm 6 — downwards mm 0 — at the side mm 6 — downwards mm 0 — for auxiliary and control current circuit — for auxiliary and control current circuit — for aringle or multi-stranded — finely stranded without core end processing — finely stran	 Side-by-side mounting 		Yes
Required spacing • with side-by-side mounting — forwards	Height	mm	85
with side-by-side mounting	Width	mm	61
with side-by-side mounting — forwards	<u> </u>	mm	97
forwards			
- Backwards	with side-by-side mounting		
- upwards - downwards - at the side • for grounded parts - forwards - Backwards - upwards - at the side mm 0 • for live parts - forwards - downwards • for live parts - forwards - mm • for live parts - forwards - mm 0 • for live parts - forwards - mm 0 • for live parts - forwards - mm 0 • for live parts - forwards - mm 0 - at the side mm 0 • for live parts - forwards - mm 0 - growards - mm 0 - growards - mm 0 - the side - downwards - at the side - downwards - at the side - for main current circuit - for auxiliary and control current circuit - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing - finely stranded without core end processing - for AWG conductors for main contacts - single or multi-stranded - for auxiliary contacts - single or multi-stranded	— forwards	mm	0
- downwards	— Backwards	mm	0
- at the side	— upwards	mm	0
• for grounded parts — forwards — Backwards — upwards — at the side — downwards • for live parts — forwards — mm 0 • for live parts — forwards — Backwards — upwards — Backwards — upwards — downwards — upwards — downwards — at the side — dornwards — at the side Connections/ Terminals: Type of electrical connection • for auxiliary and control current circuit Type of connectable conductor cross-section • for main curtacts — single or multi-stranded — finely stranded with core end processing — finely stranded without core end processing • for AWG conductors for main contacts • for auxiliary contacts — single or multi-stranded	— downwards	mm	0
forwards	— at the side	mm	0
	• for grounded parts		
- upwards	— forwards	mm	0
- at the side - downwards • for live parts - forwards - forwards - Backwards - upwards - downwards - at the side - downwards - mm - 0 - downwards - mm - 0 - at the side - downwards - at the side - at the side Connections/ Terminals: Type of electrical connection • 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 - finely stranded without core end processing • for AWG conductors for main contacts • for auxiliary contacts - single or multi-stranded • for auxiliary contacts - single or multi-stranded • for auxiliary contacts - single or multi-stranded 2x (1 6 mm²) 2x (18 8)	— Backwards	mm	0
 downwards for live parts forwards mm Backwards upwards downwards at the side Connections/ Terminals: Type of electrical connection 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 finely stranded without core end processing finely stranded without core end processing for AWG conductors for main contacts for auxiliary contacts single or multi-stranded 2x (1 10 mm²) 2x (1 6 mm²) 2x (1 6 mm²) 	— upwards	mm	0
for live parts — forwards — Backwards — upwards — upwards — downwards — at the side Connections/ Terminals: Type of electrical connection • for main current circuit • for auxiliary and control current circuit Spring-loaded terminals Type of connectable conductor cross-section • for main contacts — single or multi-stranded — finely stranded without core end processing — finely stranded without core end processing • for AWG conductors for main contacts — single or multi-stranded • for auxiliary contacts — single or multi-stranded • for auxiliary contacts — single or multi-stranded • for auxiliary contacts — single or multi-stranded 2x (1 6 mm²) 2x (18 8)	— at the side	mm	6
forwards	— downwards	mm	0
- Backwards	• for live parts		
- upwards - downwards - at the side Connections/ Terminals: Type of electrical connection • 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 - finely stranded without core end processing • for AWG conductors for main contacts • for auxiliary contacts - single or multi-stranded 2x (1 6 mm²) 2x (1 6 mm²) 2x (1 6 mm²) 2x (1 6 mm²) 2x (1 8) • for auxiliary contacts - single or multi-stranded 2x (0,5 2,5 mm²)	— forwards	mm	0
- downwards - at the side Connections/ Terminals: Type of electrical connection • 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 - finely stranded without core end processing • for AWG conductors for main contacts • for auxiliary contacts - single or multi-stranded 2x (1 10 mm²) 2x (1 6 mm²) 2x (1 6 mm²) 2x (1 6 mm²) 2x (1 8 mm²)	— Backwards	mm	0
— at the side mm 6 Connections/ Terminals: Type of electrical connection • for main current circuit spring-loaded terminals • for auxiliary and control current circuit spring-loaded terminals Type of connectable conductor cross-section • for main contacts — single or multi-stranded — finely stranded with core end processing — finely stranded without core end processing • for AWG conductors for main contacts • for auxiliary contacts — single or multi-stranded 2x (1 10 mm²) 2x (1 6 mm²) 2x (1 6 mm²) 2x (1 6 mm²) 2x (1 8 mm²)	— upwards	mm	0
Type of electrical connection • 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 — finely stranded without core end processing • for AWG conductors for main contacts • for auxiliary contacts — single or multi-stranded 2x (1 6 mm²)	— downwards	mm	0
Type of electrical connection • 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 — finely stranded without core end processing • for AWG conductors for main contacts • for auxiliary contacts — single or multi-stranded 2x (1 10 mm²) 2x (1 6 mm²) 2x (1 6 mm²) 2x (1 6 mm²) 2x (1 8)	— at the side	mm	6
 for main current circuit for auxiliary and control current circuit Spring-loaded terminals Type of connectable conductor cross-section for main contacts single or multi-stranded finely stranded with core end processing finely stranded without core end processing for AWG conductors for main contacts for auxiliary contacts single or multi-stranded 2x (1 10 mm²) 2x (1 6 mm²) 2x (1 6 mm²) 2x (1 6 mm²) 2x (1 8) 	Connections/ Terminals:		
 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 — finely stranded without core end processing — for AWG conductors for main contacts for auxiliary contacts — single or multi-stranded spring-loaded terminals 2x (1 10 mm²) 2x (1 6 mm²) 2x (1 6 mm²) 2x (1 6 mm²) 2x (18 8) 	Type of electrical connection		
Type of connectable conductor cross-section ● for main contacts — single or multi-stranded — finely stranded with core end processing — finely stranded without core end processing ● for AWG conductors for main contacts ● for auxiliary contacts — single or multi-stranded 2x (1 10 mm²) 2x (1 6 mm²) 2x (1 6 mm²) 2x (1 6 mm²) 2x (1 8)	for main current circuit		spring-loaded terminals
 for main contacts single or multi-stranded finely stranded with core end processing finely stranded without core end processing for AWG conductors for main contacts for auxiliary contacts single or multi-stranded 2x (1 6 mm²) 2x (18 8) 4x (18 8) 5x (18 8) 6x (18 8) 6x (18 8) 6x (18 8) 6x (18 8) 	 for auxiliary and control current circuit 		spring-loaded terminals
 — single or multi-stranded — finely stranded with core end processing — finely stranded without core end processing — for AWG conductors for main contacts • for auxiliary contacts — single or multi-stranded 2x (1 6 mm²) 	Type of connectable conductor cross-section		
 finely stranded with core end processing finely stranded without core end processing for AWG conductors for main contacts for auxiliary contacts single or multi-stranded 2x (1 6 mm²) 	• for main contacts		
 finely stranded without core end processing for AWG conductors for main contacts for auxiliary contacts single or multi-stranded 2x (1 6 mm²) 2x (18 8) 2x (18 8) 	— single or multi-stranded		2x (1 10 mm²)
processing • for AWG conductors for main contacts • for auxiliary contacts — single or multi-stranded 2x (18 8) 2x (18 8)	 finely stranded with core end processing 		2x (1 6 mm²)
• for auxiliary contacts — single or multi-stranded 2x (0,5 2,5 mm²)	· · · · · · · · · · · · · · · · · · ·		2x (1 6 mm²)
— single or multi-stranded 2x (0,5 2,5 mm²)	 for AWG conductors for main contacts 		2x (18 8)
	• for auxiliary contacts		
— finely stranded with core end processing 2x (0.5 1.5 mm²)	— single or multi-stranded		2x (0,5 2,5 mm²)
	— finely stranded with core end processing		2x (0.5 1.5 mm²)

 finely stranded without core end processing 		2x (0.5 2.5 mm²)
• for AWG conductors for auxiliary contacts		2x (20 14)
Apparent pick-up power of the magnet coil with AC		
● at 50 Hz	V·A	77
Safety related data:		
B10 value with high demand rate acc. to SN 31920		1 000 000
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	FIT	100
Product function Mirror contact acc. to IEC 60947-4-1		Yes
T1 value for proof test interval or service life acc. to IEC 61508	У	20
Protection against electrical shock		finger-safe
Mechanical data:		
Size of contactor		S0
Ambient conditions:		
Installation altitude at height above sea level	m	2 000
maximum		
Ambient temperature		
during operation	°C	-25 +60
during storage	°C	-55 + 80
Certificates/ approvals:		

General Product Approval

EMC

Functional Safety/Safety of Machinery











Type Examination

Declaration	0
Conformity	

Test Certificates

Shipping Approval





Type Test
Certificates/Test
Report







Shipping Approval

other



GL









Confirmation

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

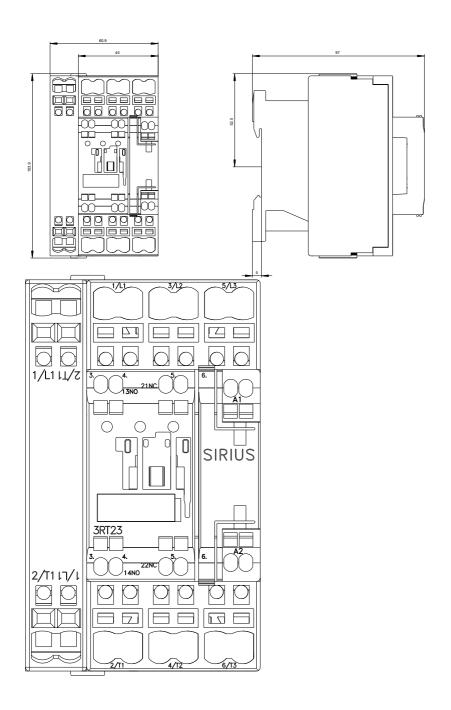
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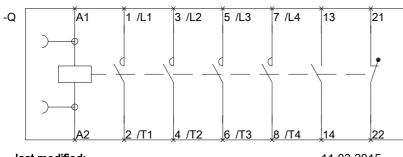
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http://support.automation.siemens.com/WW/view/en/3RT23272AB00/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT23272AB00&lang=en





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