SIEMENS

3RT2327-2BB40 **Data sheet**



Contactor, AC-1, 50 A/400 V/40 °C, S0, 4-pole, 24 V DC, 1 NO+1 NC, Spring-type terminal

product brand name	SIRIUS
product designation	Contactor
product type designation	3RT23
General technical data	
size of contactor	S0
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 	12 W
 at AC in hot operating state per pole 	3 W
 without load current share typical 	5.9 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of the auxiliary and control circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
 of main circuit rated value 	6 kV
of auxiliary circuit rated value	6 kV
shock resistance at rectangular impulse	
• at DC	10g / 5 ms, 7,5g / 10 ms
shock resistance with sine pulse	
at DC	15g / 5 ms, 10g / 10 ms
mechanical service life (switching cycles)	
 of contactor typical 	10 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
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	4
number of NO contacts for main contacts	4

operational current	
 at AC-1 at 400 V at ambient temperature 40 °C 	50 A
rated value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C	50 A
rated value	
— up to 690 V at ambient temperature 60 °C	42 A
rated value	
• at AC-3	
— at 400 V rated value	15.5 A
at AC-4 at 400 V rated value	15.5 A
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm ²
operating power	
at AC-3 at 400 V rated value	7.5 kW
at AC-4 at 400 V rated value	7.5 kW
short-time withstand current in cold operating state	7.0
up to 40 °C	
Iimited to 1 s switching at zero current maximum	Use minimum cross-section acc. to AC-1 rated value
Iimited to 5 s switching at zero current maximum	Use minimum cross-section acc. to AC-1 rated value
limited to 10 s switching at zero current maximum	Use minimum cross-section acc. to AC-1 rated value
limited to 70 3 switching at zero current maximum limited to 30 s switching at zero current maximum	Use minimum cross-section acc. to AC-1 rated value
-	Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum no load switching frequency.	OSC MINIMUM GOSS-SCOROLL ACC. TO ACCI TAREA VAILE
no-load switching frequency	4 500 4 lb
• at DC	1 500 1/h
operating frequency at AC-1 maximum	1 000 1/h
Control circuit/ Control	
type of voltage	DC
type of voltage of the control supply voltage	DC
control supply voltage at DC	
rated value	24 V
operating range factor control supply voltage rated	
value of magnet coil at DC	
initial value	0.8
full-scale value	1.1
closing power of magnet coil at DC	5.9 W
holding power of magnet coil at DC	5.9 W
closing delay	
	50 170 ms
• at DC	30 170 IIIS
• at DC	30 170 IIIS
	15 18 ms
at DC opening delay at DC	15 18 ms
at DC opening delay at DC arcing time	
at DC opening delay at DC arcing time control version of the switch operating mechanism	15 18 ms 10 10 ms
at DC opening delay • at DC arcing time control version of the switch operating mechanism Auxiliary circuit	15 18 ms 10 10 ms Standard A1 - A2
at DC opening delay at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts	15 18 ms 10 10 ms Standard A1 - A2
at DC opening delay • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • attachable	15 18 ms 10 10 ms Standard A1 - A2
at DC opening delay • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact	15 18 ms 10 10 ms Standard A1 - A2
at DC opening delay • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts	15 18 ms 10 10 ms Standard A1 - A2
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at DC opening delay • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts • attachable • instantaneous contact • operational current at AC-12 maximum	15 18 ms 10 10 ms Standard A1 - A2 1 2 1 1 2 1 1
at DC opening delay • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts • attachable • instantaneous contact • attachable • instantaneous contact operational current at AC-12 maximum operational current at AC-15	15 18 ms 10 10 ms Standard A1 - A2 1 2 1 1 2 1 1 1 2 1 10 A
at DC opening delay • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts • attachable • instantaneous contact • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value	15 18 ms 10 10 ms Standard A1 - A2 1 2 1 1 2 1 1 0 A
at DC opening delay at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts attachable instantaneous contact number of NO contacts for auxiliary contacts attachable instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value	15 18 ms 10 10 ms Standard A1 - A2 1 2 1 1 2 1 1 0 A 10 A 3 A
at DC opening delay at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts attachable instantaneous contact number of NO contacts for auxiliary contacts attachable instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value	15 18 ms 10 10 ms Standard A1 - A2 1 2 1 1 2 1 1 0 A 3 A 2 A
at DC opening delay at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts attachable instantaneous contact number of NO contacts for auxiliary contacts attachable instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12	15 18 ms 10 10 ms Standard A1 - A2 1 2 1 1 2 1 1 0 A 3 A 2 A 1 A
at DC opening delay at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts attachable instantaneous contact number of NO contacts for auxiliary contacts attachable instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value	15 18 ms 10 10 ms Standard A1 - A2 1 2 1 1 2 1 1 0 A 10 A 10 A 10 A 10 A
at DC opening delay at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts attachable instantaneous contact number of NO contacts for auxiliary contacts attachable instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 48 V rated value	15 18 ms 10 10 ms Standard A1 - A2 1 2 1 1 2 1 10 A 3 A 2 A 1 A 10 A 6 A
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* at 125 V rated value 2 A 1 A 125 V rated value 1 A		
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operational current at DC-13 • at 24 V rated value • at 10 V rated value • at 10 V rated value • at 120 V rated value • at 20 V rated value • at 220 V rated va	at 220 V rated value	1 A
e at 24 V rated value e at 48 V rated value e at 125 V rated value e at 125 V rated value e at 125 V rated value e at 226 V rated value e at 226 V rated value e at 227 V rated value e at 228 V rated value e at 228 V rated value e at 229 V rated value e at 229 V rated value e at 220 V rated value e at 220 V rated value design of the ministure circuit breaker for short-circuit protection of the auxiliary switch required contact ratiolity of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) ULCSA ratings contact rating of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) ULCSA ratings contact rating of auxiliary contacts VLCSA ratings contact rating of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) ULCSA ratings contact rating of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) ULCSA ratings contact rating of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) VLCSA ratings contact rating of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) VLCSA ratings contact rating of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) VLCSA ratings contact rating of auxiliary contacts 10 mounting position For short-circuit protection 4 for short-circuit protection of the auxiliary switch required - with type of continetion 1 required - side-by-side mounting - with side-by-side mounting - forwards - upwards - downwards - upwards - of manufact auxiliary contacts - of manufact auxiliary and control circuit - of ormain current circuit - of manufact auxiliary contacts - of manufact auxiliary and control circuit - of manufact auxiliary and c	at 600 V rated value	0.15 A
e at 48 V rated value e at 110 V rated value e at 1220 V rated value e at 220 V rated value e at 600 V rated value ges at 600 V rated value e visit side-by-side mounting e rated spacing e visit side-by-side mounting e at 600 V rated value e downwards e at 600 V rated value e for rated rated space e visit side-by-side mounting e ownwards e at 600 V rated value e for rated rated space e visit side-by-side mounting e ownwards e of rated rated space e visit side-by-side mounting e rated space e visit side-by-side mounting e ownwards e of rated rated space e visit side-by-side mounting e ownwards e of rated rated space e visit side-by-side mounting e ownwards e of rated rated space e ownwards e of rated rated space e ownwards e of rated space e ownwards e ownwards e of rated space e ownwards e of rated space e ownwards e of rated space e ownwards e	operational current at DC-13	
* at 110 V rated value * at 125 V rated value * at 225 V rated value * at 225 V rated value * at 220 V rated value * at 220 V rated value * at 600 V rated value * at 700 V rated	 at 24 V rated value 	10 A
* at 125 V rated value * at 220 V rated	at 48 V rated value	2 A
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Contact rating of auxiliary contacts according to UL A600 / Q600 A600 / Q600 / Q600 / Q600 A600 / Q600 / Q600 / Q600 A600 / Q600 / Q600 / Q600 / Q600 A600 / Q600 / Q600 / Q600 / Q600 A600 / Q600 / Q600 / Q600 / Q600 / Q600 A600 / Q600 A600 / Q600 / Q		gG: 10 A (230 V, 400 A)
contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection 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 — with type of assignment 2 required — for short-circuit protection of the auxiliary switch required — for short-circuit protection of the auxiliary switch required — for short-circuit protection of the auxiliary switch required — with type of assignment 2 required — side-by-side mounting dimensions ##-180* rotation possible on vertical mounting surface; can be tilted forward and backward by +*-22.5* on vertical mounting surface; can be tilted forward and backward by +*-22.5* on vertical mounting surface; can be tilted forward and backward by +*-22.5* on vertical mounting surface; can be tilted forward and backward by +*-22.5* on vertical mounting surface; can be tilted forward and backward by +*-22.5* on vertical mounting surface; can be tilted forward and backward by +*-22.5* on vertical mounting surface; can be tilted forward and backward by +*-22.5* on vertical mounting surface; can be tilted forward and backward by +*-22.5* on vertical mounting surface; can be tilted forward and backward by +*-22.5* on vertical mounting surface; can be tilted forward and backward by +*-22.5* on vertical mounting surface; can be tilted forward and backward by +*-22.5* on vertical mounting surface; can be tilted forward and backward by +*-22.5* on vertical mounting surface; can be tilted forward and backward by +*-22.5* on vertical mounting surface; can be tilted forward and backward by +*-22.5* on vertical mounting surface; can be tilted forward and backward by +*-22.5* on vertical mounting surface; can be tilted forward and backward by +*-22.5* on vertical mounting surface; can be tilted forward and backward by +*-22.5* on vertical mounting surface; can be tilted forward and backward by +*-22.5* on vertical mounting surface; can be tilted forward and ba	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
Short-circuit protection Product function short circuit protection No	UL/CSA ratings	
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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 • for short-circuit protection of the auxiliary switch required Installation / mounting / dimensions Mounting position *	Short-circuit protection	
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 • for short-circuit protection of the auxiliary switch required Installation / mounting / dimensions Mounting position *	product function short circuit protection	No
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- with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Instalation/ mounting/ dimensions mounting position fastening method • side-by-side mounting • with side-by-side mounting • orwards - upwards - downwards - at the side • for grounded parts - forwards - upwards - at the side • for live parts - forwards - downwards • for live parts - downwards - downwards - the side • for main current circuit • for auxiliary and control circuit • of or auxiliary and control circuit • of or auxiliary and control crosts-sections • for main contacts • for main contact - solid - solid or stranded - finely stranded with core end processing 2x (1 10 mm²) 2x (1 10 mm²)	•	gG: 63 A (690 V, 100 kA)
For short-circuit protection of the auxiliary switch required		, , , , , , , , , , , , , , , , , , , ,
required mounting position mounting position #/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 * side-by-side mounting * height #idepth #idept		
mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes height 102 mm width 60 mm depth 107 mm required spacing • with side-by-side mounting — forwards 10 mm — upwards 10 mm — downwards 10 mm • for grounded parts — forwards 10 mm • for grounded parts — forwards 10 mm • for grounded parts — at the side 6 mm — downwards 10 mm • for live parts — forwards 10 mm • for live parts — the side 6 mm — downwards 10 mm • for live parts — forwards 10 mm • for live parts — forwards 10 mm • for live parts — the side 5 mm — downwards 5 mm — downwards 5 mm — downwards 5 mm • for main courtent circuit 5 spring-loaded terminals * spring-loaded terminals * type of electrical connection • for maililary and control circuit 5 spring-loaded terminals * spring-loaded		
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according to DIN EN 60715 height 102 mm width 60 mm depth 107 mm required spacing • with side-by-side mounting — forwards 10 mm — downwards 10 mm — at the side 0 mm • for grounded parts — upwards 10 mm — at the side 6 mm — downwards 10 mm • for five parts — forwards 10 mm — at the side 6 mm — downwards 10 mm — at the side 6 mm — downwards 10 mm — at the side 6 mm — downwards 10 mm — at the side 6 mm — downwards 10 mm • for live parts — forwards 10 mm • for mive parts — forwards 10 mm • for an incurrent circuit spring-loaded terminals — at the side 5 mm connections/ Terminals type of electrical connection • for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • of magnet coil Spring-type terminals • for main contacts — solid 2x (1 10 mm²) — solid or stranded — finely stranded with core end processing 2x (1 10 mm²) — finely stranded with core end processing 2x (1 10 mm²)		forward and backward by +/- 22.5° on vertical mounting surface
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width 60 mm depth 107 mm required spacing • with side-by-side mounting — forwards 10 mm — upwards 10 mm — at the side 0 mm • for grounded parts 10 mm — at the side 6 mm — downwards 10 mm • for live parts 10 mm — torwards 10 mm — upwards 10 mm — downwards 10 mm — at the side 6 mm Connections/ Terminals type of electrical connection spring-loaded terminals • for main current circuit spring-loaded terminals • for auxiliary and control circuit spring-loaded terminals • for main current circuit spring-type terminals • for main contactor for auxiliary contacts Spring-type terminals • for main contacts Spring-type terminals • solid or stranded 2x (1 10 mm²) — solid or stranded with core end processing 2x (1 10 mm²) — finely stranded with core end processing 2x (1 6 mm²)		
depth		
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- forwards		
- upwards - downwards - at the side of or grounded parts - forwards - upwards - upwards - at the side of mm - upwards - upwards - at the side - downwards - downwards of or live parts - forwards - upwards - for live parts - forwards - upwards - upwards - upwards - upwards - downwards - at the side - downwards - at the side - formands - at the side - formands - at the side - forman current circuit of or auxiliary and control circuit of a auxiliary and control circuit of magnet coil type of connectable conductor cross-sections of or main current circuits - solid - solid - solid - solid - solid or stranded - finely stranded with core end processing 10 mm - to mm -		40
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- at the side 0 mm • for grounded parts - forwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm • for live parts - forwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit spring-loaded terminals • at contactor for auxiliary and control circuit spring-loaded terminals • of magnet coil Spring-type terminals type of connectable conductor cross-sections • for main contacts - solid 2x (1 10 mm²) - solid or stranded - finely stranded with core end processing 2x (1 10 mm²)	•	
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type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing spring-loaded terminals Spring-loaded terminals Spring-type terminals 2x (1 10 mm²) 2x (1 10 mm²) 2x (1 10 mm²)		ь mm
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 ◆ of magnet coil Spring-type terminals type of connectable conductor cross-sections ◆ for main contacts — solid — solid or stranded — solid or stranded with core end processing 2x (1 10 mm²) 2x (1 6 mm²) 	 for auxiliary and control circuit 	spring-loaded terminals
type of connectable conductor cross-sections		Spring-type terminals
 for main contacts — solid — solid or stranded — finely stranded with core end processing 2x (1 10 mm²) 2x (1 6 mm²)		Spring-type terminals
 — solid — solid or stranded — finely stranded with core end processing 2x (1 10 mm²) 2x (1 10 mm²) 2x (1 6 mm²) 	type of connectable conductor cross-sections	
 — solid or stranded — finely stranded with core end processing 2x (1 10 mm²) 2x (1 6 mm²) 	 for main contacts 	
— finely stranded with core end processing 2x (1 6 mm²)	— solid	2x (1 10 mm²)
	man and the second seco	
— finely stranded without core end processing 2x (1 6 mm²)	 solid or stranded 	
	— finely stranded with core end processing	2x (1 6 mm²)

2x (18 8)
1 10 mm²
1 10 mm²
1 10 mm²
1 6 mm²
1 6 mm²
0.5 2.5 mm ²
0.5 1.5 mm ²
0.5 2.5 mm ²
2x (0.5 2.5 mm²)
2x (0.5 2.5 mm²)
2x (0.5 1.5 mm²)
2x (0.5 2.5 mm²)
2x (20 14)
18 8
20 14
Yes
20 y
IP20
finger-safe, for vertical contact from the front
No



General Product Approval



Confirmation







EMC

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

Marine / Shipping

Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping













other

Dangerous Good

Confirmation



Transport Information

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=3RT2327-2BB40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2327-2BB40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2327-2BB40

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2327-2BB40&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2327-2BB40/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2327-2BB40&objecttype=14&gridview=view1

3/18/2022 last modified: