SIEMENS

Data sheet 3RT2325-1BG40



Contactor, AC-1, 35 A/400 V/40 $^{\circ}\text{C},$ S0, 4-pole, 125 V DC, 1 NO+1 NC, screw 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 	7.6 W	
 at AC in hot operating state per pole 	1.9 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	95 %	
maximum		
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 	35 A	

rated value	
at AC-1 — up to 690 V at ambient temperature 40 °C reted value.	35 A
rated value — up to 690 V at ambient temperature 60 °C	30 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 mm²
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 up to 40 °C	
Iimited to 1 s switching at zero current maximum	Use minimum cross-section acc. to AC-1 rated value
Ilimited to 5 s switching at zero current maximum	Use minimum cross-section acc. to AC-1 rated value
Ilmited to 10 s switching at zero current maximum Ilmited to 20 s switching at zero current maximum	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 	Use minimum cross-section acc. to AC-1 rated value Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	COO IIIIIIIIIIIII GIOGG GCCEIGII ACC. IO ACTI TAICU VAIUC
• 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	125 V
operating range factor control supply voltage rated value of magnet coil at DC	
• initial value	0.8
• full-scale value	1.1 5 0 W
closing power of magnet coil at DC	5.9 W 5.9 W
holding power of magnet coil at DC closing delay	5.9 VV
• at DC	50 170 ms
opening delay	
• at DC	15 18 ms
arcing time	10 10 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
attachable	2
• instantaneous contact	1
number of NO contacts for auxiliary contacts	1 2
attachable instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	10 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	40.4
at 24 V rated value at 48 V rated value	10 A
at 48 V rated valueat 60 V rated value	6 A 6 A
at 60 V rated value at 110 V rated value	3 A
at 110 V rated value at 125 V rated value	2 A
at 123 V rated value at 220 V rated value	1A
at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	10 A

all 48 V rated value all 128 V rated value 1 2A 1 128 V rated value 1 22 V rated value 2 10 0 9 A 2 100 V rated value 3 100 V rated value 4 100 V rated value 5 100 V			
a 12 25 V rated value a 12 60 V v rated value a 16 00 V v rated value a 17 00 V rated value a 18 00 V v rated value a 18 00 V v rated value rordection of the auxiliary switch required contact ratifity of auxiliary contacts 1 1 faulty switching per 100 million (17 V, 1 mA) 1 VILC9A: ratings contact rating of auxiliary contacts according to UL Short-circuit protection rordect function short circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch — with type of coordination 1 required — with side-by-side mounting dimensions mounting position fastening method * side-by-side mounting — forwards — side-by-side mounting — forwards — upwards — ownwards — upwards — ownwards — ownwards — ownwards — ownwards — of for prounded parts — forwards — upwards — of or main current circuit — of ownwards — o		2 A	
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design of the ministure circuit breaker for short-circuit protection of the auxillary switch required contact reliability of auxillary contacts 1 faulty switching per 100 million (17 V. 1 mA) ULCSA rations contact rating of auxillary contacts according to UL Short-Circuit protection design of the fuse link of refrict-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required of ror short-circuit protection of the auxillary switch required — with type of assignment 2 required of for short-circuit protection of the auxillary switch required of short-circuit protection of short-circuit protection of short-circuit short-			
protection of the auxiliary switch required contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) ULCSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the fuel link of or short-circuit protection of the main circuit — with type of coordination 1 required — with type of auxiliary switch — goily 10 A (890 V, 100 KA) gG: 20 A			
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contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required • for short-circuit protection of the sunilary switch required • for short-circuit protection of the sunilary switch required • for short-circuit protection of the sunilary switch required • for short-circuit protection of the sunilary switch required • for short-circuit protection of the sunilary switch required • for short-circuit protection of the sunilary switch required • for short-circuit protection of the sunilary switch required • for short-circuit protection of the sunilary switch required spacing • store by-side mounting • side-by-side mounting • with side-by-side mounting — forwards — downwards — downwards — at the side — downwards • for grounded parts — forwards • for grounded parts — forwards • for live parts — downwards • for live parts — downwards • for main contacts — solid - solid or stranded — finely stranded with core end processing onnectable conductor cross-section for main contacts • solid • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • follow pts franded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • follow stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • follow stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)	
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design of the fuse link • for short-circuit profection of the main circuit — with type of assignment 2 required — with type of assignment 2 required • for short-circuit profection of the auxiliary switch required for short-circuit profection of the auxiliary switch required fastening method • side-by-side mounting • with side-by-side mounting • forwards — upwards — upwards — downwards — of main current circuit • for suxiliary and control circuit • of or suxiliary and control circuit • of or main contacts — solid — solid or stranded — formain contacts • solid • solid or stranded • for main contacts • solid • solid or stranded • for main contacts • formain contacts • solid • solid or stranded • for high stranded with core end processing • stranded • for low, stranded • for main contacts • formain contacts • solid • solid or stranded • for low, stranded • for low, stranded • for main contacts • formain contacts • formain contacts • solid • solid or stranded • for low, stranded • for low, stranded • formain contacts • formain contacts • formain contacts • solid • solid or stranded • formain contacts •	Short-circuit protection		
For short-circuit protection of the main circuit	product function short circuit protection	No	
with type of coordination 1 required with type of assignment 2 required • for short-circuit profection of the auxiliary switch • for short-circuit profection of the auxiliary switch required **The statistical formatis** mounting position fastening method • side-by-side mounting **Historia fastening method • side-by-side mounting **With side-by-side mou	design of the fuse link		
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mounting position mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — upwards — at the side — downwards — upwards — to five parts — for live parts — for live parts — of wards — upwards — upwards — of many control circuit — of main contacts — at the side — of main contacts — of main contacts — for auxillary and control circuit — solid or stranded — finely stranded — finely stranded — solid or stranded with core end processing connectable conductor cross-section for auxiliary contacts — solid — solid or stranded with core end processing connectable conductor cross-section for auxiliary contacts — solid — solid or stranded — solid or stranded with core end processing connectable conductor cross-section for auxiliary contacts — solid or stranded with core end processing connectable conductor cross-section for auxiliary contacts — solid — solid or stranded — solid or stranded with core end processing connectable conductor cross-sect		gG: 10 A (690 V, 1 kA)	
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e side-by-side mounting helght width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — at the side • for grounded parts — forwards — 10 mm — upwards — at the side • for grounded parts — forwards — 10 mm • for ilve parts — forwards • for live parts — forwards • for inve parts — forwards • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • for for auxiliary and control circuit • for main current circuit • for main contacts • of magnet coil type of connectable conductor cross-sections • for main contacts • solid • stranded • stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • oun metable conductor cross-section for auxiliary contacts • solid • stranded • finely stranded with core end processing	· ·	forward and backward by +/- 22.5° on vertical mounting surface	
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equith required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side — for grounded parts — forwards — upwards — upwards — upwards — the side — downwards — the side — downwards — 10 mm — at the side — downwards — 10 mm — of main correct forwards — upwards — 10 mm — of or inverting the side — downwards — upwards — upwards — 10 mm — ownwards — upwards — of main correct forwards — at the side — formards — at the side — formards — at the side — formards — at the side — solid connection • for auxiliary and control circuit • of or auxiliary and control circuit • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid of stranded — at AWG cables for main contacts connectable conductor cross-section for main contacts • solid of stranded • stranded • stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • finely str	_		
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 of magnet coil type of connectable conductor cross-sections for main contacts — solid — solid or stranded — finely stranded with core end processing at AWG cables for main contacts e solid solid solid or stranded 1 10 mm² stranded stranded finely stranded with core end processing at AWG cables for main contacts solid or stranded solid or stranded stranded finely stranded with core end processing finely stranded with core end processing connectable conductor cross-section for auxiliary contacts 	 for auxiliary and control circuit 	screw-type terminals	
type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • solid • solid • solid or stranded • stranded • stranded • finely stranded with core end processing • at AWG cables for main contacts • solid • solid or stranded • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts			
 for main contacts — solid — solid or stranded — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • solid • solid or stranded • solid or stranded • solid or stranded • solid or stranded • stranded • stranded • finely stranded with core end processing • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid • stranded • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid • stranded • st	_	Screw-type terminals	
- solid - solid or stranded - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts • solid • solid or stranded • stranded • stranded • stranded • finely stranded with core end processing • at a a contacts • solid • solid or stranded • stranded • stranded • stranded • stranded • stranded • stranded with core end processing connectable conductor cross-section for auxiliary contacts 2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 10 mm²) 1 10 mm² 1 10 mm² 1 10 mm² 1 10 mm²			
 — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts — solid — solid or stranded • solid or stranded • stranded • stranded • finely stranded with core end processing • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2x (16 12), 2x (14 8) 1 10 mm² 1 10 mm² 1 10 mm² 1 10 mm² 1 10 mm² 		0 (4 0 5 2) 0 (0 5 40 2)	
 finely stranded with core end processing at AWG cables for main contacts at AWG cables for main contacts solid solid or stranded stranded finely stranded with core end processing finely stranded with core end processing connectable conductor cross-section for auxiliary contacts 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 1 10 mm² 1 10 mm² 1 10 mm² 1 10 mm² 			
 at AWG cables for main contacts connectable conductor cross-section for main contacts solid solid or stranded stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts at AWG cables for main contacts 2x (16 12), 2x (14 8) 1 10 mm² 1 10 mm² 1 10 mm² 1 10 mm² 			
connectable conductor cross-section for main contacts • solid • solid 1 10 mm² • solid or stranded 1 10 mm² • stranded 1 10 mm² • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts			
contacts • solid • solid • solid or stranded • stranded • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts 1 10 mm² 1 10 mm² 1 10 mm²		ZX (10 1Z), ZX (14 δ)	
 solid solid or stranded stranded stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts 			
 solid or stranded stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts 1 10 mm² 1 10 mm²		1 10 mm²	
 stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts 			
• finely stranded with core end processing connectable conductor cross-section for auxiliary contacts 1 10 mm²			
connectable conductor cross-section for auxiliary contacts			
contacts	connectable conductor cross-section for auxiliary		
• solid or stranded 0.5 2.5 mm ²			
	solid or stranded	0.5 2.5 mm ²	

• finely stranded with core end processing 0.5 ... 2.5 mm² type of connectable conductor cross-sections • for auxiliary contacts - solid 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) - solid or stranded 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) - finely stranded with core end processing 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) • at AWG cables for auxiliary contacts 2x (20 ... 16), 2x (18 ... 14) AWG number as coded connectable conductor cross section for main contacts 16 ... 8 • for auxiliary contacts 20 ... 14 Safety related data product function • mirror contact according to IEC 60947-4-1 Yes T1 value for proof test interval or service life according to 20 y IEC 61508 protection class IP on the front according to IEC IP20 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front Communication/ Protocol product function bus communication No

Certificates/ approvals

General Product Approval

EMC





Confirmation







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







RIN



Confirmation

other

other

Railway

Dangerous Good



Vibration and Shock

<u>Transport Information</u>

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=3RT2325-1BG40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2325-1BG40

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

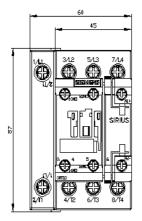
https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-1BG40

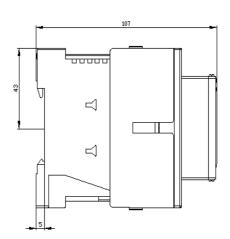
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2325-1BG40&lang=en

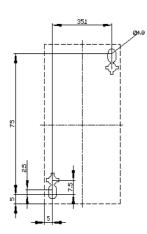
Characteristic: Tripping characteristics, I2t, Let-through current

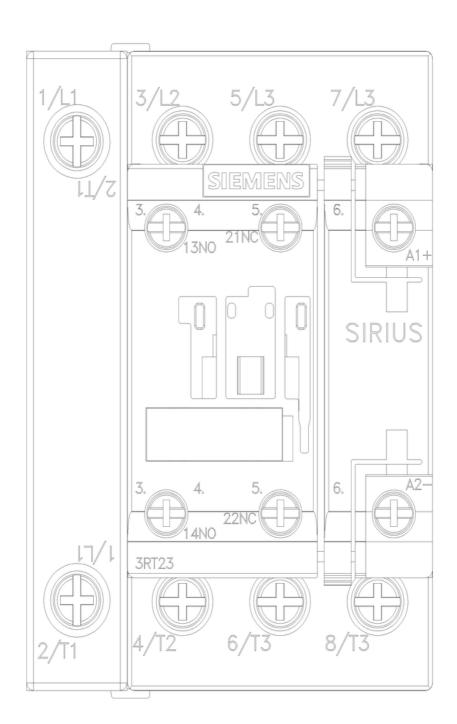
https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-1BG40/char

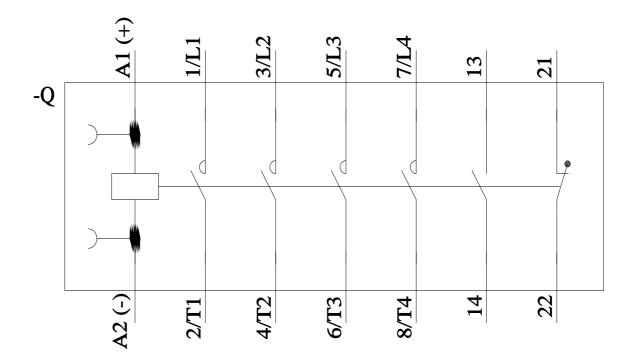
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2325-1BG40&objecttype=14&gridview=view1











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