SIEMENS

Data sheet 3RT2325-1AL20



contactor AC-1, 35 A, 400 V / 40 °C, 4-pole, 230 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0

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
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 AC	7,5g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,8g / 5 ms, 7,4g / 10 ms
mechanical service life (operating 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 rated value 	35 A

1404	
• at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	35 A
— up to 690 V at ambient temperature 60 °C rated	30 A
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	10 mm²
value	
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	
limited to 1 s switching at zero current maximum	Use minimum cross-section acc. to AC-1 rated value
limited 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 30 s switching at zero current maximum	Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum	Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	222
• at AC	5 000 1/h
operating frequency at AC-1 maximum	1 000 1/h
Control circuit/ Control	
type of voltage	AC
type of voltage type of voltage of the control supply voltage	AC
control supply voltage at AC	7.0
• at 50 Hz rated value	230 V
at 60 Hz rated value	230 V
operating range factor control supply voltage rated value of	200 1
magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
● at 50 Hz	81 VA
● at 60 Hz	79 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.72
• at 60 Hz	0.74
apparent holding power of magnet coil at AC	
● at 50 Hz	10.5 VA
• at 60 Hz	8.5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
● at 60 Hz	0.28
closing delay	
• at AC	8 40 ms
opening delay	
• at AC	4 16 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
• attachable	2
• 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

operational current at DC-12 • 12 AV rated value • 14 8V rated value • 14 8V rated value • 14 10 V rated value • 14 10 V rated value • 12 10 V rated value • 14 10 V rated value • 15 10 V rated value • 16 10 V rated value • 16 10 V rated value • 17 10 V rated value • 18 12 V rated value • 19 12 V rated value • 19 12 V rated value • 19 12 V rated value • 10 10 V rated value • 10 V rated	at 500 V rated value	2 A
operational current at DC-12 **al 24 V raided value **al 45 V raided value **al 45 V raided value **al 46 V raided value **al 48 V raide		
12 AV rated value		
48	•	10 Δ
e at 10 V rated value e1 110 V rated value e1 220 V rated value e1 24 A e1 220 V rated value e1 25 V rated value e1 26 A e1 28 V rated value e1 27 V rated value e1 28 V rated value e1 28 V rated value e1 29 V rated value e1 210 V rated value e1 210 V rated value e1 210 V rated value e1 220 V rated valu		
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e at 128 V rated value at 220 V rated value 1 1 A 115 V rated value 0 15 A operational current at DC-13 at 48 V rated value 2 A 1 at 149 V rated value 1 1 A 1 at 80 V rated value 2 A 1 at 125 V rated value 2 A 1 at 126 V rated value 3 at 120 V rated value 4 at 200 V rated value 5 at 200 V rated value 6 at 200 V rated value 7 at 126 V rated value 7 at 127 V rated value 7 at 128 V rated v		
and 200 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 34 W rated value at 100 V rated value at 34 W rated value at 34 W rated value at 100 V rated value at 100 V rated value at 200 V rated value at		
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operational current at DC-13 at 24 V rated value at 42 V rated value at 110 V rated value at 120 V rated value at 200 V rated value at		
at 24 V rated value at 48 V rated value 2 A at 125 V rated value 1 A at 125 V rated value 2 A at 126 V rated value 3 A at 127 V rated value 3 A 4 to 00 V rated value 3 A 4 to 00 V rated value 4 to 00 V rated value 5 Contact reliability of auxiliary contacts		0.15 A
at 148 V rated value at 110 V rated value at 110 V rated value at 220 V rated value at 220 V rated value at 220 V rated value 0.1 A design of the ministure circuit protection file auxiliary contacts UDCSA ratings contact reliability of auxiliary contacts UDCSA ratings contact rating of auxiliary contacts ### Contact rating of auxiliary and content circuit ### Contact rating of auxiliary contacts ##	•	
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e at 600 V rated value design of the ministure circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UUCSA ratings 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 — 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 — 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 — short-circuit protection of the auxiliary switch required - short-circuit protection 1 short-circuit protection 2 short-circuit protection 2 short-circuit protection 2 short-circuit protection 2 short-circuit protection 1 short-circuit protection 1 short-circuit protection 1 short-circuit protection 2 short-circuit prot		
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Contact rating of auxiliary contacts according to UL A600 / Q600 Product function short circuit protection product function short circuit protection ### for short-circuit protection of the main circuit		gG: 10 A (230 V, 400 A)
contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection		1 faulty switching per 100 million (17 V, 1 mA)
Short-circuit protection Product function short circuit protection No	UL/CSA ratings	
product function short circuit protection design of the fuse link • for short-circuit protection of the main circuit — 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 Installation/incunting/idimensions mounting position ##/180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° to no vertical mounting surface; can be tilted forward and backward by +/- 22.5° mo vertical mounting surface; can be tilted forward and backward by +/- 22.5° mo vertical mounting surface; can be tilted forward and backward by +/- 22.5° mo vertical mounting surface; can be tilted forward and backward by +/- 22.5° mo vertical mounting surface; can be tilted forward and backward by +/- 22.5° mo vertical mounting surface; can be tilted forward and backward by +/- 22.5° mo vertical mounting surface; can be tilted forward and backward by +/- 22.5° mo vertical mounting surface; can be tilted forward and backward by +/- 22.5° mo vertical mounting surface; can be tilted forward and backward by +/- 22.5° mo vertical mounting surface; can be tilted forward and backward by +/- 22.5° mo vertical mounting surface; can be tilted forward and backward by +/- 22.5° mo vertical mounting surface; can be tilted forward and backward by +/- 22.5° mo vertical mounting surface; can be tilted forward and backward by +/- 22.5° mo vertical mounting surface; can be tilted forward and backward by +/- 22.5° mo vertical mounting surface; can be tilted forward and backward by +/- 22.5° mo vertical mounting surface; can be tilted forward and backward by +/- 22.5° mo vertical mounting surface; can be tilted forward and backward by +/- 22.5° mo vertical mounting surface; can be tilted forward and backward by +/- 22.5° mo vertical mounting surface; can be tilted forward and backward by +/- 22.5° mo vertical mounting surface; can be tilted forwa	contact rating of auxiliary contacts according to UL	A600 / Q600
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required gG: 63 A (690 V, 100 kA) gG: 20 A (690 V, 100 kA) gG: 20 A (690 V, 100 kA) gG: 10 A (690 V, 100 kA) gG: 1	Short-circuit protection	
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 • for short-circuit protection of the auxiliary switch required 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; 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 backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backw	product function short circuit protection	No
- 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 - so for short-circuit protection of the auxiliary switch required - so for short-circuit protection of the auxiliary switch required - so for short-circuit protection of the auxiliary switch required - so for short-circuit protection of the auxiliary switch required - so for short-circuit protection of the auxiliary switch required - so for short-circuit protection of the auxiliary switch required - so for short-circuit protection of the auxiliary switch required - so for short-circuit protection of the auxiliary switch required - so for short-circuit screw-type terminals - so for short-circuit protection for main contacts - so for short-circuit so for so for so for short-circuit screw-type terminals - so for short-circuit screw-type terminals	design of the fuse link	
- with type of assignment 2 required	for short-circuit protection of the main circuit	
- with type of assignment 2 required	— with type of coordination 1 required	gG: 63 A (690 V, 100 kA)
• for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position ### 1480° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface ascew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 ### 15		
mounting position		
mounting position +/-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 for vertical for mounting surface; can be tilted for vertical for mounting surface; can be tilted for vertical for mounting surface; can be tilted for the 60715. ### A **To **In **To **To **In **To **To **To **To **To **To **To **T		g (coo . , ,
fastening method side-by-side mounting in width depth required spacing with side-by-side mounting - forwards - downwards - upwards - upwards - upwards - upwards - upwards - forwards - upwards - upwards - the side - forwards - upwards - to mm - at the side - downwards - upwards - upwards - upwards - to mm - at the side - downwards - upwards - to mm - at the side - downwards - upwards - to mm - at the side - downwards - upwards - to mm - at the side - downwards - upwards - to mm - at the side - downwards - to mm - to rive parts - for wards - to mm - to rive parts - for wards - to mm - to rive parts - forwards - to mm - to main current circuit - 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 type of connectable conductor cross-sections for main contacts		+/-180° rotation possible on vertical mounting surface; can be tilted forward and
e side-by-side mounting height width 60 mm depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — at the side • for grounded parts — at the side • for grounded parts — forwards — 10 mm — upwards — 10 mm • for wards — 10 mm • for grounded parts — forwards — 10 mm • at the side — 6 mm 10 mm • downwards 10 mm • for live parts — forwards — 10 mm • for live parts — forwards — 10 mm • for live parts — forwards — 10 mm Connections/ Terminals 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		backward by +/- 22.5° on vertical mounting surface
height width depth 97 mm required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — the side • for grounded parts — at the side • for grounded parts — at the side — downwards — 10 mm — upwards — 10 mm — at the side — downwards — 10 mm - at the side — downwards — 10 mm • for live parts — forwards — 10 mm • for live parts — forwards — upwards — the side — downwards — upwards — the side — downwards — upwards — the side — downwards — the side — for mm — at the side — for mm Connections/ Terminals 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	fastening method	
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depth 97 mm required spacing with side-by-side mounting forwards upwards downwards downwards at the side of mm 10 mm for grounded parts forwards upwards at the side 6 mm downwards for mm - at the side 6 mm - for live parts - forwards 10 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals type of electrical connection screw-type terminals of or auxiliary and control circuit screw-type terminals of magnet coil Screw-type terminals type of connectable conductor cross-sections for main contacts	· · · · · · · · · · · · · · · · · · ·	
required spacing with side-by-side mounting — forwards — upwards — downwards — at the side of or grounded parts — forwards — lomm — upwards — forwards — lomm — upwards — at the side — downwards — at the side — downwards — lomm — upwards — for live parts — forwards — upwards — lomm • for live parts — forwards — upwards — upwards — lomm • for live parts — forwards — lomm — upwards — lomm — upwards — lomm — upwards — odwnwards — lomm — the side Connections/ Terminals type of electrical connection • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts type of connectable conductor cross-sections for main contacts type of connectable conductor cross-sections for main contacts	· · · · · · · · · · · · · · · · · · ·	85 mm
with side-by-side mounting — forwards — upwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — upwards — upwards — at the side — downwards — downwards • for live parts — forwards — forwards — downwards • for live parts — forwards — upwards — the side — downwards — the side — downwards — upwards — upwards — the side — downwards — the side Onmections/Terminals 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 type of connectable conductor cross-sections for main contacts type of connectable conductor cross-sections for main contacts	height	85 mm
forwards 10 mm upwards 10 mm downwards 10 mm at the side 0 mm for grounded parts forwards 10 mm upwards 10 mm upwards 10 mm at the side 6 mm downwards 10 mm at the side 6 mm downwards 10 mm for live parts forwards 10 mm upwards 10 mm downwards 10 mm downwards 10 mm downwards 5 mm at the side 6 mm Connections/ Terminals type of electrical connection for main current circuit screw-type terminals at contactor for auxiliary contacts at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts	height width	85 mm 60 mm
upwards 10 mm downwards 10 mm at the side 0 mm • for grounded parts forwards 10 mm upwards 10 mm upwards 10 mm at the side 6 mm downwards 10 mm • for live parts forwards 10 mm • for live parts forwards 10 mm upwards 10 mm downwards 10 mm at the side 6 mm downwards 5 mm at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts • of magnet coil Screw-type terminals type of connectable conductor cross-sections for main contacts	height width depth	85 mm 60 mm
- downwards 10 mm - 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 • for live parts 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts type of connectable conductor cross-sections for main contacts	height width depth required spacing	85 mm 60 mm
- at the side 0 mm • for grounded parts - forwards 10 mm - upwards 6 mm - downwards 10 mm • for live parts - forwards 10 mm • for live parts - forwards 10 mm - at the side 6 mm - downwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 6 mm - downwards 6 mm - downwards 6 mm - at the side 6 mm Connections/ Terminals type of electrical connection • for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts • of magnet coil Screw-type terminals type of connectable conductor cross-sections for main contacts	height width depth required spacing • with side-by-side mounting	85 mm 60 mm 97 mm
for grounded parts — forwards — upwards — at the side — downwards — for live parts — forwards — forwards — forwards — forwards — upwards — upwards — upwards — upwards — downwards — a the side — downwards — at the side — formals **Connections/ Terminals** **Type of electrical connection — for auxiliary and control circuit — at contactor for auxiliary contacts — of magnet coil **Type of connectable conductor cross-sections for main contacts**	height width depth required spacing • with side-by-side mounting — forwards	85 mm 60 mm 97 mm
forwards	height width depth required spacing • with side-by-side mounting — forwards — upwards	85 mm 60 mm 97 mm 10 mm
- upwards	height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards	85 mm 60 mm 97 mm 10 mm 10 mm
- at the side 6 mm - downwards 10 mm • for live parts - forwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts • of magnet coil Screw-type terminals type of connectable conductor cross-sections for main contacts	height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side	85 mm 60 mm 97 mm 10 mm 10 mm
- at the side - downwards 10 mm • for live parts - forwards - upwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals 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 6 mm Screw-type terminals Screw-type terminals Screw-type terminals	height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts	85 mm 60 mm 97 mm 10 mm 10 mm 10 mm 0 mm
- downwards • for live parts - forwards - upwards - upwards - downwards - at the side Connections/ Terminals 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 10 mm 10 mm 6 mm Connections/ Terminals 5 crew-type terminals	height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards	85 mm 60 mm 97 mm 10 mm 10 mm 0 mm
• for live parts — forwards — upwards — upwards — downwards — at the side Connections/ Terminals 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 • for main current circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals Screw-type terminals	height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards	85 mm 60 mm 97 mm 10 mm 10 mm 0 mm 10 mm
- forwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts	height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • at the side • at the side • at the side — forwards — upwards — at the side	85 mm 60 mm 97 mm 10 mm 10 mm 0 mm 0 mm 10 mm 10 mm
- upwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals	height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — downwards	85 mm 60 mm 97 mm 10 mm 10 mm 0 mm 0 mm 10 mm 10 mm
- downwards - at the side Connections/ Terminals 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	height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — upwards — at the side — downwards • for live parts	85 mm 60 mm 97 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
— at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals type of connectable conductor cross-sections for main contacts	height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards	85 mm 60 mm 97 mm 10 mm 10 mm 10 mm 0 mm 10 mm
type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals type of connectable conductor cross-sections for main contacts	height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards	85 mm 60 mm 97 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals type of connectable conductor cross-sections for main contacts	height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — downwards • for lowerds — downwards — downwards	85 mm 60 mm 97 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
 for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil Screw-type terminals Screw-type terminals Screw-type terminals 	height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — downwards — at the side	85 mm 60 mm 97 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
 for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil screw-type terminals Screw-type terminals screw-type terminals 	height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side — downwards — at the side — downwards — at the side Connections/ Terminals	85 mm 60 mm 97 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
• at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts Screw-type terminals Screw-type terminals	height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — at the side — downwards — at the side — downwards • for live parts — forwards — upwards — upwards — at the side — downwards — at the side Connections/ Terminals type of electrical connection	85 mm 60 mm 97 mm 10 mm 10 mm 0 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 10 mm
of magnet coil type of connectable conductor cross-sections for main contacts Screw-type terminals	height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — downwards • for live parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side Connections/ Terminals type of electrical connection • for main current circuit	85 mm 60 mm 97 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 6 mm 10 mm 10 mm 6 mm 10 mm 10 mm
type of connectable conductor cross-sections for main contacts	height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • downwards • at the side — downwards • for live parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit	85 mm 60 mm 97 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 6 mm 10 mm 10 mm 6 mm 10 mm 10 mm 5 mm
	height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts	85 mm 60 mm 97 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 5 mm 10 mm
• solid 2x (1 2.5 mm²), 2x (2.5 10 mm²)	height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil	85 mm 60 mm 97 mm 10 mm 10 mm 10 mm 0 mm 0 mm 10 mm 10 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 5 mm 10 mm
(height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil	85 mm 60 mm 97 mm 10 mm 10 mm 10 mm 0 mm 0 mm 10 mm 10 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm 5 mm 10 mm 10 mm 10 mm 10 mm

 solid or stranded 	2x (1 2.5 mm²), 2x (2.5 10 mm²)	
finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²	
connectable conductor cross-section for main contacts		
• solid	1 10 mm²	
 solid or stranded 	1 10 mm²	
stranded	1 10 mm²	
 finely stranded with core end processing 	1 10 mm²	
connectable conductor cross-section for auxiliary contacts		
 solid or stranded 	0.5 2.5 mm²	
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)	
 for 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 IEC 61508	20 a	
protection class IP on the front according to IEC 60529	IP20	
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





Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping







(3



Confirmation

other

other

Railway

Environment



Vibration and Shock

Environmental Confirmations

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RT2325-1AL20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2325-1AL20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-1AL20

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

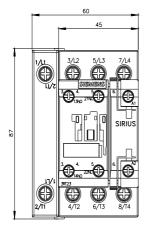
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2325-1AL20&lang=en

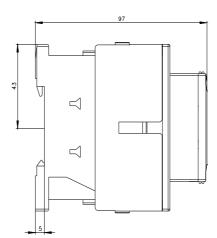
Characteristic: Tripping characteristics, I^2t , Let-through current

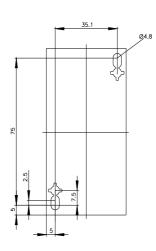
https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-1AL20/char

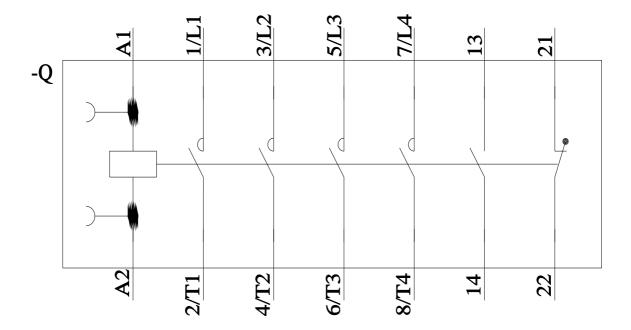
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2325-1AL20&objecttype=14&gridview=view1









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