SIEMENS

Data sheet

3RT2023-1BB44



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 2 NO + 2 NC, screw terminal, removable auxiliary switch

product brand nameSIRIUSproduct designationPower contactorproduct type designation3RT2General technical dataS0size of contactorS0product extension-• function module for communicationNo• auxiliary switchNopower loss [W] for rated value of the current-• at AC in hot operating state0.6 W
product type designation 3RT2 General technical data S0 size of contactor S0 product extension No • function module for communication No • auxiliary switch No power loss [W] for rated value of the current Image: Communication of the current of the curent of the current
General technical data size of contactor S0 product extension • function module for communication No • auxiliary switch No power loss [W] for rated value of the current
size of contactor S0 product extension No • function module for communication No • auxiliary switch No power loss [W] for rated value of the current Vo
product extension • function module for communication No • auxiliary switch No power loss [W] for rated value of the current Vo
function module for communication auxiliary switch power loss [W] for rated value of the current
• auxiliary switch No power loss [W] for rated value of the current
power loss [W] for rated value of the current
• at AC in hot operating state 0.6 W
• at AC in hot operating state per pole 0.2 W
without load current share typical 5.9 W
insulation voltage
of main circuit with degree of pollution 3 rated value 690 V
of auxiliary 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
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1400 V
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 (operating cycles)
of contactor typical 10 000 000
of the contactor with added electronically optimized auxiliary switch block typical 5 000 000
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 % 95 %
Main circuit

number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
 at AC-3 rated value maximum 	690 V
at AC-3e rated value maximum	690 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	40 A
• at AC-1	
 at AC-1 — up to 690 V at ambient temperature 40 °C 	40 A
rated value	40 A
— up to 690 V at ambient temperature 60 °C	35 A
rated value	
• at AC-3	
— at 400 V rated value	9 A
— at 500 V rated value	9 A
— at 690 V rated value	9 A
• at AC-3e	
— at 400 V rated value	9 A
— at 500 V rated value	9 A
— at 690 V rated value	9 A
 at AC-4 at 400 V rated value 	8.5 A
 at AC-5a up to 690 V rated value 	35.2 A
 at AC-5b up to 400 V rated value 	7.4 A
● at AC-6a	
— up to 230 V for current peak value n=20 rated	11.4 A
value	
 — up to 400 V for current peak value n=20 rated value 	11.4 A
— up to 500 V for current peak value n=20 rated	9.1 A
value	
— up to 690 V for current peak value n=20 rated	9 A
value	
● at AC-6a	
— up to 230 V for current peak value n=30 rated	7.6 A
value	704
 — up to 400 V for current peak value n=30 rated value 	7.6 A
— up to 500 V for current peak value n=30 rated	6.1 A
value	
— up to 690 V for current peak value n=30 rated	6.1 A
value	
minimum cross-section in main circuit at maximum AC-1	10 mm ²
rated value	
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	4.1 A
• at 690 V rated value	3.3 A
operational current	0.071
• at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 60 V rated value	20 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	35 A
— at 60 V rated value	35 A

— at 110 V rated value	35 A
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.05 A
 with 2 current paths in series at DC-3 at DC-5 	0.00 A
- at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.27 A 0.16 A
	0.16 A
with 3 current paths in series at DC-3 at DC-5 at 24 \/ reted value	25 4
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
operating power	
• at AC-3	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	4 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	4 kW
— at 690 V rated value	7.5 kW
operating power for approx. 200000 operating cycles	
at AC-4	0.1.14/
• at 400 V rated value	2 kW
• at 690 V rated value	2.5 kW
operating apparent power at AC-6a	4 5 1) (4
• up to 230 V for current peak value n=20 rated value	4.5 kVA
• up to 400 V for current peak value n=20 rated value	7.8 kVA
• up to 500 V for current peak value n=20 rated value	7.8 kVA
• up to 690 V for current peak value n=20 rated value	10.7 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	3 kVA
• up to 400 V for current peak value n=30 rated value	5.2 kVA
• up to 500 V for current peak value n=30 rated value	5.2 kVA
• up to 690 V for current peak value n=30 rated value	7.2 kVA
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	170 A; Use
 limited to 5 s switching at zero current maximum 	170 A; Use
 limited to 10 s switching at zero current maximum 	140 A; Use
 limited to 30 s switching at zero current maximum 	104 A; Use
 limited to 60 s switching at zero current maximum 	88 A; Use
no-load switching frequency	
• at DC	1 500 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	1 000 1/h
 at AC-3 maximum 	1 000 1/h
• at AC-3e maximum	1 000 1/h

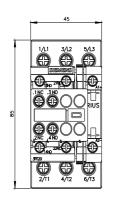
minimum cross-section acc. to AC-1 rated value minimum cross-section acc. to AC-1 rated value

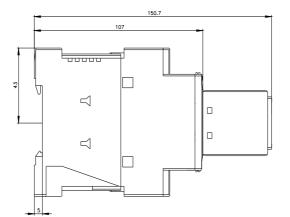
• at AC-4 maximum	300 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC	
rated value	24 V
operating range factor control supply voltage rated	
value of magnet coil at DC	
initial value	0.8
• full-scale value	1.1
closing power of magnet coil at DC	5.9 W
holding power of magnet coil at DC	5.9 W
closing delay ● at DC	50 170 ms
opening delay	50 170 ms
• 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	2
instantaneous contact	
number of NO contacts for auxiliary contacts	2
instantaneous contact	40.4
operational current at AC-12 maximum operational current at AC-15	10 A
at 230 V rated value	6 A
• at 400 V rated value	3A
at 500 V rated value	2 A
at 690 V rated value	1 A
operational current at DC-12	
• at 24 V rated value	10 A
 at 48 V rated value 	6 A
 at 60 V rated value 	6 A
 at 110 V rated value 	3 A
 at 125 V rated value 	2 A
 at 220 V rated value 	1 A
at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	6 A
at 48 V rated value	2 A 2 A
 at 60 V rated value at 110 V rated value 	1A
• at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
• at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	7.6 A
• at 600 V rated value	9 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	1 hp
— at 230 V rated value	1 hp
• for 3-phase AC motor	2 hz
- at 200/208 V rated value	2 hp 3 hp
— at 220/230 V rated value — at 460/480 V rated value	3 hp 5 hp
— at 575/600 V rated value	7.5 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
 — with type of coordination 1 required 	gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)

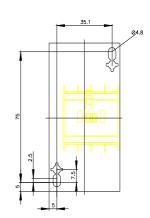
• for short-circuit protection of the auxiliary switch required

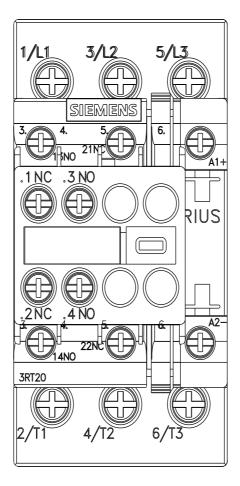
mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/-22.5° on vertical mounting surface; screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 • side-by-side mounting Yes height 85 mm width 45 mm depth 151 mm required spacing 10 mm - forwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 0 mm - forwards 10 mm - downwards 10 mm - forwards 10 mm <	Installation/ mounting/ dimensions	
fastening method forward and backward by +/. 22.5° on vertical mounting surface fastening method 60715 • side-by-side mounting Yes height 85 mm width 45 mm depth 151 mm required spacing - - forwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - forwards 10 mm - upwards 10 mm - at the side 0 mm - forwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm - upwards 10 mm - at the side 6 mm - forwards 10 mm - upwards 10 mm - upwards 10 mm - forwards 10 mm - at the side 6 mm - forwards 10 mm - upwards 10 mm - upwards 10 mm - of orwards 10 mm - of orwards 10 mm		+/-180° rotation possible on vertical mounting surface; can be tilted
60715 • side-by-side mounting Yes height 85 mm width 45 mm depth 151 mm required spacing • • with side-by-side mounting - - forwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - ownwards 10 mm - upwards 10 mm - at the side 6 mm - ownwards 10 mm - at the side 6 mm - downwards 10 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals 5 crew-type terminals - of rauxiliary and control circuit screw-type terminals - of magnet coil Sc		forward and backward by +/- 22.5° on vertical mounting surface
• side-by-side mounting Yes height 85 mm width 45 mm depth 151 mm required spacing 10 mm • with side-by-side mounting 10 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - at the side 6 mm - at the side 6 mm - downwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 6 mm - at the side 6 mm - downwards 10 mm - at the side 5 mm - for raine current circuit screw-type terminals - at the side 6 mm - at the side 6 mm - of rauxiliary and control circuit screw-type terminals - of magnet coll Screw-type terminals	fastening method	
height 85 mm width 45 mm depth 151 mm required spacing • with side-by-side mounting - forwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 0 mm - for quoted parts 0 mm - forwards 10 mm - upwards 10 mm - at the side 0 mm - forwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - forwards 10 mm - at the side 6 mm - forwards 10 mm - downwards 10 mm - forwards 10 mm - forwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - other auxiliary and control circuit screw-type terminals i of rauxiliary and control circuit screw-type terminals i of magnet coil contactor for auxil		
width45 mmdepth151 mmrequired spacing151 mm• with side-by-side mounting forwards10 mm- upwards10 mm- downwards0 mm- at the side0 mm- at the side0 mm- forwards10 mm- at the side0 mm- forwards10 mm- upwards10 mm- upwards10 mm- at the side6 mm- at the side6 mm- at the side10 mm- at the side6 mm- downwards10 mm- downwards10 mm- downwards10 mm- at the side6 mm- downwards10 mm- downwards10 mm- upwards10 mm- upwards10 mm- upwards10 mm- upwards10 mm- at the side6 mm- downwards10 mm- at the side6 mm- downwards10 mm- at the side5 mm- of presence5 crew-type terminals- at the side5 crew-type terminals- for auxiliary and control circuits crew-type terminals- of magnet coil5 crew-type terminals- of magnet coil5 crew-type terminals- of magnet coil2 x (1 2.5 mm²), 2x (2.5 10 mm²)- solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)		
depth151 mmrequired spacingI• with side-by-side mounting forwards10 mm- upwards10 mm- downwards10 mm- downwards0 mm- at the side0 mm- for grounded parts forwards10 mm- upwards10 mm- at the side6 mm- forwards10 mm- upwards10 mm- upwards10 mm- upwards10 mm- the side6 mm- forwards10 mm- upwards10 mm- at the side6 mm- the side6 mm- at the side6 mm- at the side5 mm- at the side6 mm- at the side5 crew-type terminals- solid contactor for auxiliary contacts5 crew-type terminals- of magnet coil5 crew-type terminals+ of magnet coil5 crew-type terminals+ osolid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)		
• with side-by-side mounting 10 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 0 mm - for grounded parts 0 mm - at the side 0 mm - forwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - at the side 6 mm Connections/ Terminals 5 crew-type terminals i to ratactor for auxiliary contacts Screw-type terminals i at contactor for auxiliary contacts Screw-type terminals i of magnet coil Screw-type terminals type of connectable conductor cross-sections for main contacts Solid or stranded		
• with side-by-side mountingI- forwards10 mm- upwards10 mm- downwards10 mm- at the side0 mm- for grounded parts0- forwards10 mm- upwards10 mm- upwards10 mm- at the side6 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- forwards10 mm- downwards10 mm- downwards10 mm- forwards10 mm- at the side6 mm- downwards10 mm- at the side6 mm- downwards10 mm- at the side6 mm- downwards10 mm- at the side6 mmConnections/ Terminals5 crew-type terminals- at the side6 mmcontactor for auxiliary contactss crew-type terminals- for agnet coils crew-type terminals- of magnet coilS crew-type terminals- of magnet coilS crew-type terminals- solid2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)	•	151 11111
forwards10 mm upwards10 mm downwards10 mm downwards0 mm at the side0 mm forwards10 mm upwards10 mm upwards10 mm upwards10 mm at the side6 mm downwards10 mm at the side6 mm downwards10 mm forwards10 mm forwards10 mm downwards10 mm downwards10 mm downwards10 mm at the side6 mm forwards10 mm downwards10 mm downwards10 mm at the side6 mmConnections/ Terminals5 crew-type terminals for auxiliary and control circuitscrew-type terminals for auxiliary contactsScrew-type terminals of magnet coilScrew-type terminals of magnet coilScrew-type terminals of magnet coilScrew-type terminals solid2x (1 2.5 mm²), 2x (2.5 10 mm²) solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)		
- upwards10 mm- downwards10 mm- at the side0 mm• for grounded parts0 mm- forwards10 mm- upwards0 mm- at the side6 mm- downwards10 mm- downwards10 mm- for live parts10 mm- forwards10 mm- forwards10 mm- downwards10 mm- downwards10 mm- at the side6 mm- upwards10 mm- downwards10 mm- at the side6 mm- downwards10 mm- at the side6 mmConnections/ Terminalstype of electrical connection• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminals• solid2x (1 2.5 mm²), 2x (2.5 10 mm²)• solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)		10 mm
- downwards 10 mm - at the side 0 mm • for grounded parts 0 mm - forwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - for live parts 10 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals 6 mm • for auxiliary and control circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals • solid 2x (1 2.5 mm²), 2x (2.5 10 mm²) • solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²)		
 for grounded parts for wards forwards upwards at the side downwards for live parts for live parts forwards mm upwards mm for live parts for wards mm upwards mm upwards mm upwards mm downwards mm upwards mm upwards mm upwards mm downwards mm mm downwards mm for auxiliary and control circuit screw-type terminals screw-type terminals of magnet coil screw-type terminals screw		
- forwards10 mm- upwards10 mm- at the side6 mm- downwards10 mm- for live parts10 mm- forwards10 mm- upwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards6 mm- downwards5 mm- downwards6 mm- downwards6 mm- downwards5 mm- downwards6 mm- downwards6 mm- downwards6 mm- downwards5 mm- downwards6 mm- downwards5 crew-type terminals- of magnet coil5 crew-type terminals- of magnet coil5 crew-type terminalstype of connectable conductor cross-sections for main contacts5 crew-type terminals- solid2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)	— at the side	0 mm
- upwards10 mm- at the side6 mm- downwards10 mm• for live parts10 mm- forwards10 mm- upwards10 mm- upwards10 mm- downwards10 mm- downwards6 mm- downwards6 mm- at the side6 mmConnections/ Terminals• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• of magnet coilScrew-type terminalstype of connectable conductor cross-sections for main contactsScrew-type terminals• solid2x (1 2.5 mm²), 2x (2.5 10 mm²)• solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)	 for grounded parts 	
at the side6 mm downwards10 mm• for live parts10 mm forwards10 mm upwards10 mm downwards10 mm downwards10 mm at the side6 mmConnections/ Terminalstype of electrical connection• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminalstype of connectable conductor cross-sections for main contactsScrew-type terminals• solid2x (1 2.5 mm²), 2x (2.5 10 mm²)• solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)	— forwards	10 mm
downwards10 mm• for live parts10 mm forwards10 mm upwards10 mm downwards10 mm at the side6 mmConnections/ Terminalstype of electrical connection• for main current circuitscrew-type terminals• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• of magnet coilScrew-type terminals• of magnet coilscrew-type terminals• of solidscrew-type terminals• solid2x (1 2.5 mm²), 2x (2.5 10 mm²)• solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)	— upwards	10 mm
 for live parts forwards upwards downwards a the side mm at the side mm Connections/ Terminals type of electrical connection for main current circuit screw-type terminals for auxiliary and control circuit screw-type terminals of magnet coil Screw-type terminals of magnet coil Screw-type terminals screw-type terminals 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 solid solid solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 10 mm²) 	— at the side	6 mm
forwards10 mm upwards10 mm downwards10 mm at the side6 mmConnections/ Terminalstype of electrical connection- for main current circuitscrew-type terminals- for auxiliary and control circuitscrew-type terminals- at contactor for auxiliary contactsScrew-type terminals- of magnet coilScrew-type terminals- of magnet coilScrew-type terminals- solidScrew-type ter	— downwards	10 mm
upwards10 mm downwards10 mm at the side6 mmConnections/ Terminalstype of electrical connection• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminalstype of connectable conductor cross-sections for main contactsScrew-type terminals• solid2x (1 2.5 mm²), 2x (2.5 10 mm²)• solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)	 for live parts 	
downwards10 mm at the side6 mmConnections/ Terminalstype of electrical connection• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminalstype of connectable conductor cross-sections for main contactsScrew-type terminals• solid2x (1 2.5 mm²), 2x (2.5 10 mm²)• solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)		
at the side6 mmConnections/ Terminalstype of electrical connection• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminalstype of connectable conductor cross-sections for main contactsScrew-type terminals• solid2x (1 2.5 mm²), 2x (2.5 10 mm²)• solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)	•	
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 • solid • solid or stranded		
type of electrical connection• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminalstype of connectable conductor cross-sections for main contactsScrew-type terminals• solid2x (1 2.5 mm²), 2x (2.5 10 mm²)• solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)		6 mm
 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 screw-type terminals Screw-type		
 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 solid or stranded solid screw-type terminals <li< td=""><td></td><td></td></li<>		
 at contactor for auxiliary contacts of magnet coil Screw-type terminals Screw-type termina		
• of magnet coilScrew-type terminalstype of connectable conductor cross-sections for main contactsScrew-type terminals• solid2x (1 2.5 mm²), 2x (2.5 10 mm²)• solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)		
type of connectable conductor cross-sections for main contacts • solid • solid or stranded $2x (1 2.5 mm^2), 2x (2.5 10 mm^2)$	-	
• solid 2x (1 2.5 mm²), 2x (2.5 10 mm²) • solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²)	-	Screw-type terminals
• solid or stranded 2x (1 2.5 mm ²), 2x (2.5 10 mm ²)	51	
• solid or stranded 2x (1 2.5 mm ²), 2x (2.5 10 mm ²)	• solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
• finely stranded with core end processing 2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ²	 solid or stranded 	2x (1 2.5 mm ²), 2x (2.5 10 mm ²)
	 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		4 40 mm²
solid 1 10 mm ² stranded 1 10 mm ²		
• finely stranded with core end processing 1 10 mm ²		
contacts		
• solid or stranded 0.5 2.5 mm ²	 solid or stranded 	0.5 2.5 mm²
• finely stranded with core end processing 0.5 2.5 mm ²	 finely stranded with core end processing 	0.5 2.5 mm ²
type of connectable conductor cross-sections	type of connectable conductor cross-sections	
for auxiliary contacts	 for auxiliary contacts 	
- solid or stranded 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)		
- finely stranded with core end processing 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)		
• at AWG cables for auxiliary contacts 2x (20 16), 2x (18 14)	-	2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross section		
• for main contacts 16 8		168
• for auxiliary contacts 20 14		
Safety related data		
product function		
mirror contact according to IEC 60947-4-1 Yes	•	Yes
positively driven operation according to IEC 60947- 5-1 No	 positively driven operation according to IEC 60947- 	No
B10 value with high demand rate according to SN 31920 450 000	B10 value with high demand rate according to SN 31920	450 000
proportion of dangerous failures		
with low demand rate according to SN 31920 40 %	 with low demand rate according to SN 31920 	40 %

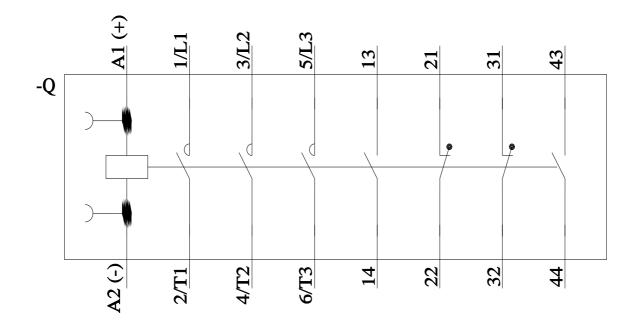
failure rate [FIT] with	and rate according to SN low demand rate accord		73 % 100 FIT			
31920 T1 value for proof test interval or service life according to IEC 61508			20 a			
	on the front according	to IEC	IP20			
	touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front			
 safety-related s 	-		Yes			
Certificates/ approval General Product Ap		_				
		Confirmatior	_	KC		
SP))	Commation	<u>(</u>)	<u>KC</u>	FAL	
CSA	ccc		UL		F11F	
	1					
EMC	Functional Safety/Safety of Machinery	Declaration of	Conformity	Test Certificates		
Â	<u>Type Examination</u> <u>Certificate</u>	CE	UK CA	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	
RCM		EG-Konf.	CA			
Marine / Shipping						
		ቶሕ	Haveda		æ	
		DNV	Register		W	
ABS	BUREAU VERITAS	DNV	URS	RINA	RNIRS	
other		Railway	Dangerous Good	Environment		
	•		-			
Confirmation	NE	Vibration and St	nock <u>Transport Informa-</u> tion	Environmental Con- firmations		
	VDE					
Further information						
	ry.siemens.com/cs/ww/					
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=3RT2023-1BB44 Cax online generator						
Cax online generator <u>http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2023-1BB44</u>						
https://support.indust	Service&Support (Manuals, Certificates, Characteristics, FAQs,) <u>https://support.industry.siemens.com/cs/ww/en/ps/3RT2023-1BB44</u> Image database (product images, 2D dimension drawings, 3D models, device sizewit diagrams, EPLAN measure,)					
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) <u>http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2023-1BB44⟨=en</u> Characteristic: Tripping characteristics, I ² t, Let-through current						
https://support.industry.siemens.com/cs/ww/en/ps/3RT2023-1BB44/char Further characteristics (e.g. electrical endurance, switching frequency)						
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2023-1BB44&objecttype=14&gridview=view1						











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2/10/2023 🖸