SIEMENS

Data sheet 3RT2015-1AB02



power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 24 V AC, 50/60 Hz, auxiliary contacts: 1 NC, screw terminal, size: S00

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S00
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 	0.6 W
 at AC in hot operating state per pole 	0.2 W
without load current share typical	1.1 W
type of calculation of power loss depending on pole	quadratic
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 protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (operating cycles)	
of contactor typical	30 000 000
 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 maximum	95 %
Environmental footprint	

Environmental Product Declaration/EDD)	Yes
Environmental Product Declaration(EPD) Global Warming Potential [CO2 eq] total	39.6 kg
Global Warming Potential [CO2 eq] during manufacturing	1.18 kg
Global Warming Potential [CO2 eq] during operation	38.5 kg
Global Warming Potential [CO2 eq] after end of life	-0.155 kg
Main circuit	0.100 kg
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 	18 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	18 A
— up to 690 V at ambient temperature 60 °C rated value	16 A
• at AC-3	7.4
— at 400 V rated value	7 A
— at 500 V rated value	6.4
— at 690 V rated value	4.9 A
at AC-3e — at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
at AC-4 at 400 V rated value	6.5 A
at AC-5a up to 690 V rated value	15.8 A
at AC-5b up to 400 V rated value	5.8 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	4 A
— up to 400 V for current peak value n=20 rated value	4 A
— up to 500 V for current peak value n=20 rated value	3.8 A
— up to 690 V for current peak value n=20 rated value	3.6 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	2.7 A
 up to 400 V for current peak value n=30 rated value 	2.7 A
 up to 500 V for current peak value n=30 rated value 	2.5 A
— up to 690 V for current peak value n=30 rated value	2.4 A
minimum cross-section in main circuit at maximum AC-1 rated value	2.5 mm ²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	2.6 A
at 690 V rated value	1.8 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	1.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value — at 600 V rated value	0.42 A 0.42 A
with 2 current paths in series at DC-1	V.74 /\
with 2 current paths in series at DC-1 — at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 100 V rated value — at 110 V rated value	8.4 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.5 A
with 3 current paths in series at DC-1	
 with 3 current paths in series at DC-1 	

— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	15 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.7 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	15 A
— at 60 V rated value	0.35 A
— at 110 V rated value	0.1 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	15 A
— at 60 V rated value	3.5 A
— at 110 V rated value	0.25 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.14 A
— at 600 V rated value	0.14 A
operating power	
• at AC-3	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
• at AC-3e	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	1.15 kW
at 690 V rated value	1.15 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	1.5 kVA
• up to 400 V for current peak value n=20 rated value	2.7 kVA
• up to 500 V for current peak value n=20 rated value	3.3 kVA
• up to 690 V for current peak value n=20 rated value	4.3 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	1 kVA
• up to 400 V for current peak value n=30 rated value	1.8 kVA
• up to 500 V for current peak value n=30 rated value	2.2 kVA
• up to 690 V for current peak value n=30 rated value	2.9 kVA
short-time withstand current in cold operating state up to	
40 °C	
 limited to 1 s switching at zero current maximum 	120 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	86 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	67 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	52 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 60 s switching at zero current maximum	43 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	10 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 1/h
• at AC-4 maximum	250 1/h

Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
operating range factor control supply voltage rated value of	
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	27 VA
● at 60 Hz	24.3 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.8
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
● at 50 Hz	4.2 VA
• at 60 Hz	3.3 VA
inductive power factor with the holding power of the coil	
● at 50 Hz	0.25
● at 60 Hz	0.25
closing delay	
• at AC	9 35 ms
opening delay	
• at AC	4 15 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts 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	1A
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	10 A
at 48 V rated value	2 A
at 60 V rated value	2 A
at 110 V rated value	1 A
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)
JL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	4.8 A
at 600 V rated value	6.1 A
vielded mechanical performance [hp]	
yielded mechanical performance [hp] • for single-phase AC motor	
for single-phase AC motor	0.25 hp
	0.25 hp 0.75 hp

fastening method fastening method fastening method feight width 45 mm depth 73 mm required spacing • with side-by-side mounting — forwards — upwards — downwards — ownwards — at the side • for grounded parts — at the side — downwards — at the side — downwards — at the side — downwards — to mm — at the side — downwards — to mm • for live parts — forwards — upwards — to mm — at the side — downwards • for live parts — forwards — upwards — to mm — to the side — downwards • for live parts — forwards — to main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • for main current circuit •		
	• for 3-phase AC motor	
at 60,0480 V rated value 5 hp contact rating of auxiliary contacts according to UL Storp-Circuit protection of the main circuit with type of coordination it required with type of coordination in required service in required specific with type of coordination in required service in required specific with type of coordination in required specific with type of coordination in required with type of coordination in requ	— at 200/208 V rated value	1.5 hp
	— at 220/230 V rated value	2 hp
A600 / G600	— at 460/480 V rated value	3 hp
design of the fuse link - with type of coordination 1 required - with type of coordination 2 required - with type of coordination 2 required - with type of coordination 2 required - with type of assignment 2 required - with stallation or mounting of the substance and a second type of a sec	— at 575/600 V rated value	5 hp
design of the fuse link for short-circuit protection of the main circuit	contact rating of auxiliary contacts according to UL	A600 / Q600
• for short-croult protection of the main crout - with type of coordination 1 required - with type of assignment 2 required - with side of the audition of	Short-circuit protection	
— with type of assignment 2 required gc: 28.4 (690V, 100kA), abt. 28.4 (416V, 200kA) or anot-circuit protection of the auxiliary switch required gc: 20.4 (690V, 100kA), abt. 16.4 (690V, 100kA), BSS8: 354 (416V, 200kA) or anot-circuit protection of the auxiliary switch required gc: 10.4 (690V, 100kA), abt. 16.4 (690V, 100kA), BSS8: 20.4 (415V, 200kA) or another protection decided and protection decided another protection decided	design of the fuse link	
- with type of assignment 2 required • for short-creut protection of the auxiliary switch required institution involving climensions - with involving climensions - with sold sold (200, 1 ks.) - with side by side mounting • forwards • upwards • on many and the side • for grounded parts • forwards • the side • for grounded parts • forwards • to limit by earts • forwards • for man current circuit • of ownwards • for live parts • for wards • for main current circuit • of ownwards • for main current circuit • of ownwards • for main current circuit • of ownwards (20,51,5 mm²), 2x (0.752,5 mm²), 2x 4 mm² 2x (0.51,5 mm²), 2x (0.752,5 mm²), 2x 4 mm² 2x (0.51,5 mm²), 2x (0.752,5 mm²), 2x 4 mm² 2x (0.51,5 mm²), 2x (0.752,5 mm²), 2x 4 mm² 5x (2015,5 mm²), 2x (0.752,5 mm²), 2x 4 mm² 5x (2015,5 mm²), 2x (0.752,5 mm²), 2x 4 mm² 5x (2015,5 mm²), 2x (0.752,5 mm²), 2x 4 mm² 5x (2015,5 mm²), 2x (0.752,5 mm²), 2x 4 mm² 5x (2015,5 mm²), 2x (0.752,5 mm²), 2x 4 mm² 5x (2015,5 mm²), 2x (0.752,5 mm²), 2x 4 mm² 5x (2015,5 mm²), 2x (0.752,5 mm²), 2x 4 mm² 5x (2015,5 mm²), 2x (0.752,5 mm²), 2x 4 mm² 5x (2015,5 mm²), 2x (0.752,5 mm²), 2x 4 mm² 5x (2015,5 mm²), 2x (0.752,5 mm²), 2x 4 mm² 5x (2015,5 mm²), 2x (0.752,5 mm²), 2x 4 mm² 5x (2015,5 mm²), 2x (0.752,5 mm²), 2x 4 mm² 5x (2015,5 mm²), 2x (0.752,5 mm²), 2x 4 mm² 5x (2015,5 mm²), 2x (0.752,5 mm²), 2x 4 mm² 5x (2015,5 mm²), 2x (0.752,5 mm²), 2x 4 mm² 5x (2015,5 mm²), 2x (0.752,5 mm²), 2x 4 mm² 5x (2015,5 mm²), 2x (0.752,5 mm²), 2x 4 mm² 5x (2015,5 mm²), 2x (0.752,5 mm²), 2x 4	 for short-circuit protection of the main circuit 	
of or short-circuit protection of the auxiliary switch required mounting position mounting position serve was and snap-on mounting surface; can be titled forward or backward by 4°-22.5° on vertical mounting surface; can be titled forward or backward by 4°-22.5° on vertical mounting surface; can be ditted forward or backward by 4°-22.5° on vertical mounting surface; can be ditted forward or backward by 4°-22.5° on vertical mounting surface; can be ditted forward or backward by 4°-22.5° on vertical mounting surface; can be ditted forward or backward by 4°-22.5° on vertical mounting surface; can be ditted forward or backward by 4°-22.5° on vertical mounting surface; can be ditted forward or backward by 4°-22.5° on vertical mounting surface; can be ditted forward or backward by 4°-22.5° on vertical mounting surface; can be ditted forward or backward by 4°-22.5° on vertical mounting surface; can be ditted forward or backward by 4°-22.5° on vertical mounting surface; can be ditted forward or backward by 4°-22.5° on vertical mounting surface; can be ditted forward or backward by 4°-22.5° on vertical mounting surface; can be ditted forward or backward by 4°-22.5° on vertical mounting surface; can be ditted forward or samiliar according to DIN EN 6071 8 mm **With 40** firm **Torwards** - forwards** - for multing vertical mounting surface; can be ditted forward or surface; and the formation of the formation or to minimal	 — with type of coordination 1 required 	gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
mounting position #*.180* rotation possible on vertical mounting surface; can be titled forward a betackward by 1-22.6* on vertical mounting surface; can be titled forward a betackward by 1-22.6* on vertical mounting surface; can be titled forward a betackward by 1-22.6* on vertical mounting surface; can be titled forward a betackward by 1-22.6* on vertical mounting surface; can be titled forward a section of surface; can be titled forward and surface; can be titled forward. ### Connectable formation or surface; can be titled forward and surface; can be titled forward. ### Connectable formation or surface; can be titled forward. ### Connectable formation or surface; can be titled forward. ### Connectable formation	 — with type of assignment 2 required 	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)
mounting position #+1.60" rotation possible on vertical mounting surface: can be titled forward a backward by +4-22.5" on vertical mounting surface: can be titled forward a backward by +4-22.5" on vertical mounting surface: and be titled forward a backward by +4-22.5" on vertical mounting surface: and be titled forward a backward by +4-22.5" on vertical mounting and backward by +4-22.5" on vertical mounting and backward by 4-22.5" on vertical mounting surface: and backward by 4-22.5" on vertical mounting on the SS mm width and with a contact by mind and surface; and backward by 4-22.5" on vertical mounting surface: and backward by 4-22.5" on well and mount and some point of the surface; and surface; and backward by 4-22.5" on well and mounting surface: and backward by 4-22.5" on well and mounting surface: and backward by 4-22.5" on well and mounting surface: and backward by 4-22.5" on well and mounting surface: and backward by 4-22.5" on mm - forwards and contended and and and and and and and and and an	• for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
fastering method fastering method fastering method felight width depth 78 mm required spacing • with side-by-side mounting - forwards - upwards - downwards - for grounded parts - forwards - at the side • for grounded parts - forwards - upwards - upwards - the side • for grounded parts - forwards - upwards - the side • for grounded parts - forwards - the side - downwards • for live parts - forwards - the side - downwards • for live parts - forwards - upwards • for live parts - forwards - the side - downwards • for live parts - forwards - upwards • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • for main current circuit - solid or stranded - finely stranded with core end processing • for AWC cables for main contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded - finely stranded with core end processing • for favic cables for main contacts • solid or stranded • finely stranded with core end processing • for AWC cables for auxiliary contacts • solid or stranded - finely stranded with core end processing • for auxiliary contacts • solid or stranded - finely stranded with core end processing • for AWC cables for auxiliary contacts • solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts - for for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary	Installation/ mounting/ dimensions	
height width	mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
width depth 73 mm required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side — of regrounded parts — forwards — 10 mm — of regrounded parts — forwards — 10 mm — of regrounded parts — forwards — 10 mm — of regrounded parts — forwards — 10 mm — of regrounded parts — forwards — of mm — of the side — downwards — of mm — of mm — of mm — of regrounded parts — forwards — for main contacts — of mm —	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — of forwards — upwards — 10 mm — at the side • for grounded parts — of forwards — at the side — at the side — downwards — 10 mm — of rive parts — of rive parts — for live parts — for live parts — for live parts — ownwards — upwards — ownwards — o	height	
required spacing with side-by-side mounting - forwards - upwards - downwards - at the side - for grounded parts - forwards - upwards - 10 mm - upwards - at the side - downwards - to fire parts - forwards - downwards - downwards - downwards - 10 mm - at the side - downwards - 10 mm - at the side - downwards - downwards - upwards - downwards - upwards - downwards - of mm - at the side Connections/ Terminals type of electrical connection - for main current circuit - for auxiliary and control circuit - so of magnet coil - solid - solid or stranded - sinely stranded with core end processing - for AWG cables for main contacts - solid - solid - sinely stranded with core end processing - solid - sinely stranded with core end processing - for for with contects - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid	width	45 mm
with side-by-side mounting	depth	73 mm
forwards upwards	required spacing	
- upwards	with side-by-side mounting	
	— forwards	10 mm
- at the side • for grounded parts - forwards - upwards - at the side - downwards • for live parts - forwards - upwards - for live parts - forwards - upwards - for live parts - forwards - 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 - solid - solid or stranded - finely stranded with core end processing • for AWG cables for main contacts • solid • stranded • finely stranded with core end processing • for auxiliary contacts • solid • stranded • finely stranded with core end processing • for auxiliary contacts • solid • stranded • finely stranded with core end processing • for auxiliary contacts • solid • stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts - solid or stranded • finely stranded with core end processing • for auxiliary contacts - solid or stranded • finely stranded with core end processing • for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end proc	— upwards	10 mm
• for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards • for live parts — forwards • upwards • for live parts — forwards — upwards — upwards — upwards — upwards — downwards — at the side — formain current circuit — 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 — solid — solid or stranded — finely stranded with core end processing • for AWG cables for main contacts • solid • sit ande • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for AWG cables for auxiliary contacts • solid or stranded • finely stranded with core end processing • for AWG cables for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for AWG cables for auxiliary contacts • for auxiliary contacts	— downwards	10 mm
- forwards	— at the side	0 mm
- upwards	for grounded parts	
- at the side — downwards 10 mm • for live parts - forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals type of electrical connection • for auxiliary and control circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • of magnet coil Screw-type terminals • connectable conductor cross-sections • for main contacts - solid - solid or stranded - finely stranded with core end processing • for AWG cables for main contacts • solid 0.5 4 mm² • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross	— forwards	10 mm
- downwards - for live parts - forwards - upwards - downwards - downwards - at the side Connections/ Terminals type of electrical connection - for auxiliary and control circuit - for auxiliary and control circuit - for auxiliary and control circuit - screw-type terminals - of magnet coil - solid - solid - solid - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processi	— upwards	10 mm
• for live parts forwards upwards downwards downwards at the side at the side of mm 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 solid solid solid or stranded finely stranded with core end processing • for awx finely stranded with core end processing • for news connectable conductor cross-section for auxiliary contacts • solid • finely stranded with core end processing • for awx one connectable conductor cross-section for auxiliary contacts • solid • finely stranded with core end processing • for awx one connectable conductor cross-section for auxiliary contacts • solid • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-sections • for auxiliary contacts solid or stranded finely stranded with core end processing connectable conductor cross-sections • for auxiliary contacts solid or stranded finely stranded with core end processing solid or stranded finely stranded with core end processing solid or stranded finely stranded with core end processing solid or stranded finely stranded with core end processing solid or stranded finely stranded with core end processing solid or stranded finely stranded with core end processing solid or stranded finely stranded with core end processing solid or stranded finely stranded with core end processing solid or stranded finely stranded with core end processing solid or stranded finely stranded with core end processing solid or stranded finely stranded with core end processing solid or stranded finely stranded with core end processing solid or stranded finely stranded with core end processing solid or stranded finely stranded with core end processing s	— at the side	6 mm
- forwards - upwards - 10 mm - 10 mm - 10 mm - 20 mm -	— downwards	10 mm
- upwards	• for live parts	
- downwards - at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • at contactor for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts • of magnet coil Screw-type terminals • of connectable conductor cross-sections • for main contacts - solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (20 16), 2x (18 14), 2x 12 connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing • for AWG cables for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²	— forwards	10 mm
- at the side 6 mm Connections/ Terminals type of electrical connection	— upwards	10 mm
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 • stranded • stranded • finely stranded with core end processing • for stranded • finely stranded with core end processing • for stranded • finely stranded with core end processing • for stranded • finely stranded with core end processing • for stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²	— downwards	10 mm
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 • stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts • solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	— at the side	6 mm
• for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil • of magnet coil • Screw-type terminals • of magnet coil • Screw-type terminals • of magnet coil • Screw-type terminals • of magnet coil • Screw-type terminals • of magnet coil • Screw-type terminals • Screw-type	Connections/ Terminals	
 for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil Screw-type terminals for main contacts — solid — solid or stranded — finely stranded with core end processing of stranded — solid — solid or stranded — finely stranded with core end processing of or AWG cables for main contacts • solid 0.5 4 mm² 0.5 2.5 mm² 20	type of electrical connection	
 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 of or AWG cables for main contacts — solid — type (1.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 2x 12 connectable conductor cross-section for main contacts osolid os 4 mm² ostranded os 4 mm² os 2.5 mm² connectable conductor cross-section for auxiliary contacts osolid or stranded os 4 mm² os 2.5 mm² type of connectable conductor cross-sections of nauxiliary contacts asolid or stranded for auxiliary contacts for auxiliary contacts asolid or stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² AWG number as coded connectable conductor cross	• for main current circuit	screw-type terminals
• of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • stranded • stranded • stranded • stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid • sinely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	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 • for AWG cables for main contacts • solid • stranded • stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • for auxiliary contacts • solid • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for AWG cables for auxiliary contacts • solid or stranded • finely stranded with core end processing • for AWG cables for auxiliary contacts • solid or stranded • finely stranded with core end processing • for AWG cables for auxiliary contacts • solid or stranded • finely stranded with core end processing • for AWG cables for auxiliary contacts • solid or stranded • finely stranded with core end processing • for AWG cables for auxiliary contacts • for AWG cables for auxiliary contacts	 at contactor for auxiliary contacts 	Screw-type terminals
• for main contacts — solid — solid or stranded — solid or stranded — finely stranded with core end processing • for AWG cables for main contacts • solid • stranded • stranded • solid • stranded • solid • stranded • stranded • finely stranded with core end processing • solid • stranded • stranded • finely stranded with core end processing • solid or stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • for auxiliary contacts • solid or stranded • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • solid or stranded • for auxiliary contacts • for AWG cables for auxiliary contacts • for AWG cables for auxiliary contacts • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross	of magnet coil	Screw-type terminals
- solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² - solid or stranded 2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²), 2x 4 mm² - finely stranded with core end processing 2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²), 2x 4 mm² - finely stranded with core end processing 2x (20 16), 2x (18 14), 2x 12 connectable conductor cross-section for main contacts • solid 0.5 4 mm² • stranded 0.5 4 mm² • finely stranded with core end processing 0.5 2.5 mm² connectable conductor cross-section for auxiliary contacts • solid or stranded 0.5 4 mm² • finely stranded with core end processing 0.5 2.5 mm² type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 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), 2x 12 AWG number as coded connectable conductor cross	type of connectable conductor cross-sections	
- solid or stranded - finely stranded with core end processing - for AWG cables for main contacts - solid - stranded - stranded - stranded - stranded - stranded - stranded - solid - stranded - stranded - stranded - solid or stranded - solid or stranded - solid or stranded - solid or stranded - st	• for main contacts	
 — finely stranded with core end processing ● for AWG cables for main contacts Exercise (20 1.5 mm²), 2x (0.75 2.5 mm²) Exercise (20 16), 2x (18 14), 2x 12 Connectable conductor cross-section for main contacts ● solid ● stranded ● stranded with core end processing Connectable conductor cross-section for auxiliary contacts ● solid or stranded ● finely stranded with core end processing Usercise (20 1.5 mm²) Usercise (20 1.5 mm²)	— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
 for AWG cables for main contacts connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing solid or stranded finely stranded with core end processing solid or stranded finely stranded with core end processing finely stranded with core end processing for auxiliary contacts solid or stranded for auxiliary contacts for auxiliary contacts for auxiliary contacts for auxiliary contacts finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 2x 12 AWG number as coded connectable conductor cross	— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — solid or stranded — finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) - finely stranded with core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross	 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 solid stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded for auxiliary contacts for auxiliary contacts for auxiliary contacts finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² for AWG cables for auxiliary contacts 2x (20 1.5), 2x (18 14), 2x 12 AWG number as coded connectable conductor cross	• for AWG cables for main contacts	2x (20 16), 2x (18 14), 2x 12
 stranded finely stranded with core end processing 0.5 4 mm² connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded for auxiliary contacts media for stranded finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² for AWG cables for auxiliary contacts for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 2x 12 AWG number as coded connectable conductor cross	connectable conductor cross-section for main contacts	
 finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² for AWG cables for auxiliary contacts for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 2x 12 AWG number as coded connectable conductor cross	• solid	0.5 4 mm²
connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — solid or stranded — finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 2x 12	• stranded	0.5 4 mm²
 solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts — solid or stranded — finely stranded with core end processing — for AWG cables for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 2x 12 AWG number as coded connectable conductor cross	 finely stranded with core end processing 	0.5 2.5 mm²
 ◆ finely stranded with core end processing type of connectable conductor cross-sections ◆ for auxiliary contacts — solid or stranded — finely stranded with core end processing → for AWG cables for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 2x 12 AWG number as coded connectable conductor cross	connectable conductor cross-section for auxiliary contacts	
type of connectable conductor cross-sections	 solid or stranded 	0.5 4 mm²
 for auxiliary contacts — solid or stranded — finely stranded with core end processing for AWG cables for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 2x 12 AWG number as coded connectable conductor cross 	finely stranded with core end processing	0.5 2.5 mm²
 — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 2x 12 	type of connectable conductor cross-sections	
— 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), 2x 12 AWG number as coded connectable conductor cross	• for auxiliary contacts	
• for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 2x 12 AWG number as coded connectable conductor cross	— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
AWG number as coded connectable conductor cross	 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), 2x 12
section		
	section	

for main contacts	20 12	
 for auxiliary contacts 	20 12	
Safety related data		
product function		
 mirror contact according to IEC 60947-4-1 	Yes	
suitability for use safety-related switching OFF	Yes; applies only to contactor operating mechanism	
proportion of dangerous failures		
 with low demand rate according to SN 31920 	40 %	
 with high demand rate according to SN 31920 	73 %	
B10 value with high demand rate according to SN 31920	1 000 000	
failure rate [FIT] with low demand rate according to SN 31920	100 FIT	
IEC 61508		
T1 value		
 for proof test interval or service life according to IEC 61508 	20 a	
Electrical Safety		
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	
Approvals Certificates		

General Product Approval







Confirmation





General Product Approval	EMV	Functional Saftey	Test Certificates
--------------------------	-----	-------------------	-------------------

<u>KC</u>





Type Examination Certificate Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













Marine / Shipping	other	Railway	Environment
-------------------	-------	---------	-------------



Miscellaneous

Confirmation

Confirmation

Special Test Certificate



Environment

Environmental Confirmations

Further information

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=3RT2015-1AB02

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2015-1AB02

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

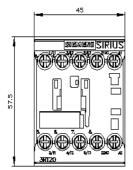
https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-1AB02

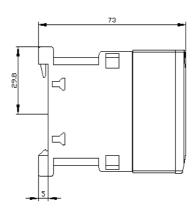
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2015-1AB02&lang=en

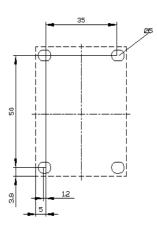
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-1AB02/char

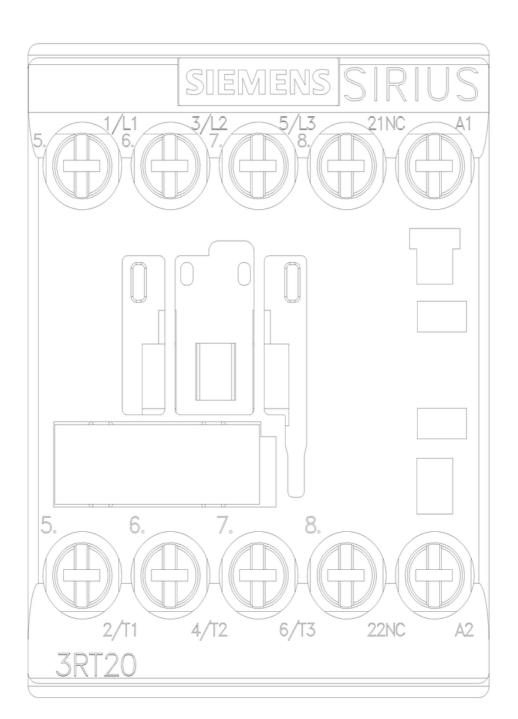
Further characteristics (e.g. electrical endurance, switching frequency)

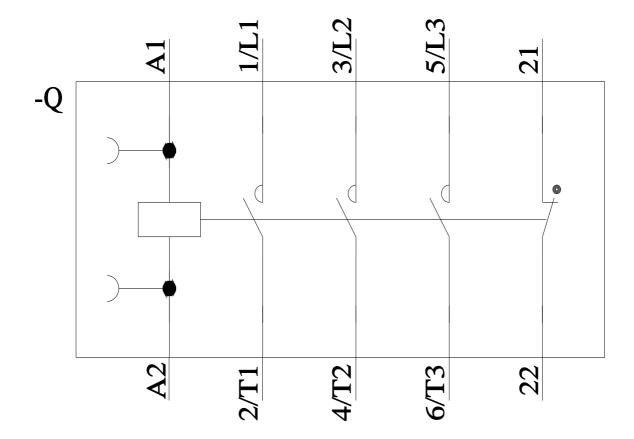
earch&mlfb=3RT2015-1AB02&objecttype=14&gridview=view1











last modified: 3/15/2024 🖸