SIEMENS

Data sheet 3RT2017-2LB41



power contactor, AC-3 12 A, 5.5 kW / 400 V 1 NO, 24 V DC 0.7-1.25 * US, with varistor integrated, 3-pole Size S00, Spring-type terminal

product brand name	SIRIUS
product designation	Coupling contactor
product type designation	3RT2
General technical data	
size of contactor	S00
product extension	
 function module for communication 	No
auxiliary switch	No
power loss [W] for rated value of the current	
 at AC in hot operating state 	1.5 W
 at AC in hot operating state per pole 	0.5 W
without load current share typical	2.8 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 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	7.3g / 5 ms, 4.7g / 10 ms
shock resistance with sine pulse	
• at DC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (switching cycles)	
of contactor typical	30 000 000
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	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	22 A
• at AC-1	00.4
 — up to 690 V at ambient temperature 40 °C rated value 	22 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	20 A
• at AC-3	
— at 400 V rated value	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 A
• at AC-3e	
— at 400 V rated value	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 A
at AC-4 at 400 V rated value	8.5 A
at AC-5a up to 690 V rated value	19.4 A
at AC-5b up to 400 V rated value	9.9 A
• at AC-6a	704
 up to 230 V for current peak value n=20 rated value 	7.2 A
 up to 400 V for current peak value n=20 rated value 	7.2 A
 up to 500 V for current peak value n=20 rated value 	7.2 A
 up to 690 V for current peak value n=20 rated value 	6.7 A
• at AC-6a	
 up to 230 V for current peak value n=30 rated value 	4.8 A
 up to 400 V for current peak value n=30 rated value 	4.8 A
 up to 500 V for current peak value n=30 rated value 	4.8 A
— up to 690 V for current peak value n=30 rated value	4.8 A
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm²
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	
• at 1 current path at DC-1	
— at 24 V rated value	20 A
— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
with 2 current paths in series at DC-1	
— at 24 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.7 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A

ot 440 V rated value	12.0
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
• at 1 current path at DC-3 at DC-5	00.4
— at 24 V rated value	20 A
— at 110 V rated value	0.1 A
with 2 current paths in series at DC-3 at DC-5	20. 4
— at 24 V rated value	20 A
— at 110 V rated value	0.35 A
with 3 current paths in series at DC-3 at DC-5	00.4
— at 24 V rated value	20 A 20 A
— at 110 V rated value	
— at 220 V rated value	1.5 A
— at 440 V rated value	0.2 A
— at 600 V rated value	0.2 A
operating power ● at AC-2 at 400 V rated value	E E IAM
	5.5 kW
• at AC-3	2 1/1/1
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	5.5 kW
at AC-3e — at 230 V rated value	3 kW
— at 230 V rated value — at 400 V rated value	5.5 kW
— at 400 V rated value — at 500 V rated value	5.5 kW
— at 500 V rated value — at 690 V rated value	5.5 kW
operating power for approx. 200000 operating cycles	5.5 KVV
at AC-4	
• at 400 V rated value	2 kW
at 690 V rated value	2.5 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	2.8 kVA
 up to 400 V for current peak value n=20 rated value 	4.9 kVA
 up to 500 V for current peak value n=20 rated value 	6.2 kVA
• up to 690 V for current peak value n=20 rated value	8 kVA
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	1.9 kVA
 up to 400 V for current peak value n=30 rated value 	3.3 kVA
 up to 500 V for current peak value n=30 rated value 	4.1 kVA
up to 690 V for current peak value n=30 rated value	5.7 kVA
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	200 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	123 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	96 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	74 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum	61 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency • at DC	10 000 1/h
operating frequency	10 000 1111
• 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	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	0.7
full-scale value	1.25
	with varistor
design of the surge suppressor	2.8 W
closing power of magnet coil at DC	
holding power of magnet coil at DC	2.8 W
closing delay	25 420
• at DC	25 130 ms
opening delay	7 00
• at DC	7 20 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NO 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	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 	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)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	11 A
• at 600 V rated value	11 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	0.5 hp
— at 230 V rated value	2 hp
• for 3-phase AC motor	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	7.5 hp
— at 575/600 V rated value	10 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: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
with type of assignment 2 required	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,
type or acongruinone in required	80kA)
• for short-circuit protection of the auxiliary switch	gG: 10 A (500 V, 1 kA)
required	
Installation/ mounting/ dimensions	

Setanting method	mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted
* side-by-side mounting	fastening method	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail
Medital	-	according to DIN EN 60715
width 45 mm depth 73 mm required spacing with side-by-side mounting ************************************		
Page		
Number N		
with side-by-side mounting	•	73 111111
forwards upwards upwards downwards downwards downwards downwards downwards forwards forwards upwards forwards upwards downwards downwards downwards downwards forwards upwards forwards downwards downwards downwards downwards downwards downwards forwards forwards forwards downwards dow		
- upwards - downwards - at the side • for grounded parts - forwards - upwards - upwards - upwards - upwards - the side - downwards - upwards - downwards - downwards - forlive parts - forwards - upwards - downwards - the side - downwards - upwards - at the side - forman control circuit - for auxiliary and control circuit - for auxiliary and control circuit - for auxiliary and control circuit - for auxiliary contacts - for main contacts - solid - finely stranded with core end processing - finely stranded without core end processing - finely stranded with core end p		10 mm
- downwards - at the side 0 mm - at the side 0 mm - forwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - domnwards 10 mm - domnwards 10 mm - domnwards 50 mm - formal cupwards 10 mm - formal cupwards 10 mm - formal current circuit spring-loaded terminals sp		
- at the side • for grounded parts - forwards - upwards - at the side - downwards - downwards • for live parts - forwards - upwards - forwards - forwards - forwards - upwards - formands - upwards - for main current circuit • for auxillary and control circuit • for auxillary contacts • of magnet coil - finely stranded without core end processing - standed - finely stranded without core end processing • finely stranded with core end processing • finely stranded without core end p	·	
forwards		
- at the side		10 mm
- at the side	— upwards	10 mm
• for live parts — forwards — upwards — downwards — downwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control 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	•	6 mm
forwards upwards upwards downwards at the side for main current circuit for auxiliary and control circuit for auxiliary contacts for main contacts for main contacts solid solid or stranded finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing finely stranded with core end processin		
forwards	• for live parts	
- downwards — at the side 6 mm Connections/ Torninals type of electrical connection • for main current circuit spring-loaded terminals • for auxiliary and control circuit spring-loaded terminals • of magnet coil Spring-loaded terminals • of magnet coil Spring-type terminals • of magnet coil Spring-type terminals • of magnet coil Spring-type terminals • for main contacts — solid 2x (0.5 4 mm²) — solid or stranded with core end processing — finely stranded without core end processing • at AWG cables for main contacts • solid 0.5 4 mm² • finely stranded with core end processing • finel	•	10 mm
Type of electrical connection • for main current circuit • for auxiliary and control circuit • for auxiliary and control 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 with core end processing • at AWG cables for main contacts • solid • solid • stranded with core end processing • finely stranded without core end processing • finely stranded with core end processing • for auxiliary contacts — solid or stranded • finely stranded with core end processing • 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 • f	— upwards	10 mm
Connections/ Torminals type of electrical connection • for main current circuit spring-loaded terminals • for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • for main contacts Spring-type terminals • for main contacts 2x (0.5 4 mm²) — solid 2x (0.5 4 mm²) — solid or stranded with core end processing 2x (0.5 2.5 mm²) — finely stranded with core end processing 2x (0.5 2.5 mm²) • at AWC cables for main contacts 2x (0.5 4 mm²) connectable conductor cross-section for main contacts 0.5 4 mm² • solid 0.5 4 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded without core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • for auxiliary contacts 2x (0.5 2.5 mm²)	·	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 • solid 0.5 4 mm² • solid • stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without 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 — solid or stranded — finely stranded with core end processing • for auxiliary contacts — solid or stranded AWG cables for auxiliary contacts • for main contacts • for main contacts • for main contacts • for main contacts • for main contacts • for main contacts • for main contacts • for main contacts	— at the side	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 or stranded — finely stranded with out core end processing • finely stranded with core end processing • solid • stranded • stranded • stranded • finely stranded with core end processing • finely stranded without core end processing • solid • stranded • finely stranded without core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded with core end processing • for auxiliary contacts - solid or stranded	Connections/ Terminals	
• 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 or stranded — finely stranded with out core end processing • finely stranded with core end processing • solid • stranded • stranded • stranded • finely stranded with core end processing • finely stranded without core end processing • solid • stranded • finely stranded without core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded with core end processing • for auxiliary contacts - solid or stranded	type of electrical connection	
of magnet coil type of connectable conductor cross-sections of main contacts — solid — solid or stranded — finely stranded without core end processing • stranded • finely stranded with core end processing • solid • stranded • stranded • finely stranded with core end processing • at AWG cables for main contacts • solid • solid • stranded • finely stranded with core end processing • at AWG cables for await core end processing • solid • stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without 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 • for awailiary contacts • solid or stranded • finely stranded with core end processing • for awailiary contacts • solid or stranded • finely stranded with core end processing • for awailiary contacts • solid or stranded • finely stranded with core end processing • for awailiary contacts • solid or stranded • finely stranded with core end processing • for awailiary contacts • solid or stranded • finely stranded with core end processing • for awailiary contacts • solid or stranded • for awailiary contacts • solid or stranded with core end processing • for awailiary contacts • for awailiary contacts • for main contacts • of or awailiary contacts • for main contacts • for main contacts • for main contacts • for main contacts • for awailiary contacts		spring-loaded terminals
• of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • solid • stranded • stranded • finely stranded with core end processing • finely stranded with core end processing • at AWG cables for main contacts • solid • stranded • finely stranded with core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for auxiliary contacts AWG cables for auxiliary contacts • for main contacts • for main contacts • for main contacts • for main contacts • for main contacts • for main contacts • for main contacts • for main contacts • for main contacts • for main contacts	 for auxiliary and control circuit 	spring-loaded terminals
• for main contacts - solid - solid or stranded with core end processing - at AWG cables for end processing - finely stranded with core end processing - finely stranded with core end processing - finely stranded with core end processing - at AWG cables for main contacts - solid - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - solid - solid - stranded - solid - solid or stranded without core end processing - finely stranded with core end processing - solid or stranded with core end processing - solid or stranded without core end processing - solid or stranded with core end processing - solid or stranded without core end processing - solid or stranded with core end p	at contactor for auxiliary contacts	Spring-type terminals
 • for main contacts — solid — solid or stranded — solid or stranded with core end processing — finely stranded without core end processing • at AWG cables for main contacts • solid • stranded • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • 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 • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • finely stranded with core end processing • at AWG cables for auxiliary contacts at AWG number as coded connectable conductor crosssection • for main contacts • for auxiliary contacts 	of magnet coil	Spring-type terminals
- solid - solid or stranded 2x (0.5 4 mm²) - finely stranded with core end processing 2x (0.5 2.5 mm²) - finely stranded without core end processing 2x (0.5 2.5 mm²) - at AWG cables for main contacts 2x (20 12) connectable conductor cross-section for main contacts - solid 0.5 4 mm² - stranded 0.5 4 mm² - stranded with core end processing 0.5 2.5 mm² - finely stranded with core end processing 0.5 2.5 mm² - finely stranded with core end processing 0.5 2.5 mm² - solid or stranded 0.5 4 mm² - solid or stranded 0.5 4 mm² - solid or stranded 0.5 4 mm² - solid or stranded 0.5 2.5 mm² - finely stranded with core end processing 0.5 2.5 mm² - finely stranded with core end processing 0.5 2.5 mm² - finely stranded without core end processing 0.5 2.5 mm² - finely stranded with core end processing 0.5 2.5 mm² - finely stranded with core end processing 0.5 2.5 mm² - finely stranded with core end processing 0.5 2.5 mm² - finely stranded with core end processing 0.5 2.5 mm² - finely stranded with core end processing 0.5 2.5 mm² - finely stranded with core end processing 0.5 2.5 mm²) - finely stranded without core end processing 0.5 2.5 mm²) - finely stranded without core end processing 0.5 2.5 mm²) - finely stranded without core end processing 0.5 2.5 mm²) - finely stranded without core end processing 0.5 2.5 mm²) - finely stranded without core end processing 0.5 2.5 mm²) - finely stranded without core end processing 0.5 2.5 mm²) - finely stranded without core end processing 0.5 2.5 mm²) - finely stranded without core end processing 0.5 2.5 mm²) - finely stranded without core end processing 0.5 2.5 mm²) - finely stranded without core end processing 0.5 2.5 mm²) - finely stranded without core end processing 0.5 2.5 mm²) - finely stranded without core end processing 0.5 2.5 mm²) - finely stranded 0.5 2.5 mm²) - finely stranded 0.5 2.5 mm²) - finely stranded 0.5 2.5 mm²) - finely stra	type of connectable conductor cross-sections	
- solid or stranded - finely stranded with core end processing - finely stranded without core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • solid • stranded • finely stranded without core end processing • finely stranded with core end processing • finely stranded without 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 - 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 - sol	 for main contacts 	
- finely stranded with core end processing - finely stranded without core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without 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 • at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12	— solid	2x (0.5 4 mm²)
- finely stranded without core end processing ● at AWG cables for main contacts connectable conductor cross-section for main contacts ● solid ● stranded ● finely stranded with core end processing ● finely stranded without core end processing ● finely stranded without core end processing ● finely stranded with core end processing ● finely stranded without core end processing ● finely stranded without 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 - finely stranded with core end processing - solid or stranded - finely stranded without 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 or stranded	2x (0,5 4 mm²)
 at AWG cables for main contacts connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing solid or stranded finely stranded with core end processing solid or stranded finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing for auxiliary contacts solid or stranded for auxiliary contacts for auxiliary contacts for aligh stranded with core end processing at AWG cables for auxiliary contacts at AWG cables for auxiliary contacts at AWG cables for auxiliary contacts at AWG number as coded connectable conductor crosssection for main contacts for nauxiliary contacts at AWG number as coded connectable conductor crosssection for main contacts for auxiliary contacts 20 12 for auxiliary contacts 	 finely stranded with core end processing 	2x (0.5 2.5 mm²)
connectable conductor cross-section for main contacts	 finely stranded without core end processing 	2x (0.5 2.5 mm²)
e solid e stranded e finely stranded with core end processing e finely stranded without core end processing e finely stranded without core end processing e finely stranded without core end processing connectable conductor cross-section for auxiliary contacts e solid or stranded e finely stranded with core end processing e finely stranded without core end processing e finely stranded without core end processing e for auxiliary contacts - solid or stranded - finely stranded without core end processing e for auxiliary contacts - solid or stranded - finely stranded with core end processing - finely stranded with core end processing - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - solid or stranded - finely stranded without core end processing - finely stranded without core end processing - for auxiliary contacts 2x (0.5 2.5 mm²)	at AWG cables for main contacts	2x (20 12)
 stranded finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing solid or stranded finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing finely stranded without core end processing for auxiliary contacts solid or stranded for auxiliary contacts for auxiliary contacts finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing at AWG cables for auxiliary contacts at AWG number as coded connectable conductor cross section for main contacts for main contacts for auxiliary contacts 20 12 		
 finely stranded with core end processing finely stranded without core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing for auxiliary contacts solid or stranded for auxiliary contacts finely stranded with core end processing 2x (0,5 4 mm²) finely stranded with core end processing finely stranded with core end processing at AWG cables for auxiliary contacts at AWG cables for auxiliary contacts for main contacts for main contacts for auxiliary contacts 20 12 for auxiliary contacts 	• solid	0.5 4 mm²
 finely stranded with core end processing finely stranded without core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing for auxiliary contacts solid or stranded for auxiliary contacts finely stranded with core end processing 2x (0,5 4 mm²) finely stranded with core end processing finely stranded with core end processing at AWG cables for auxiliary contacts at AWG cables for auxiliary contacts for main contacts for main contacts for auxiliary contacts 20 12 for auxiliary contacts 	• stranded	0.5 4 mm²
 finely stranded without core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing for auxiliary contacts solid or stranded roll or stranded finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing at AWG cables for auxiliary contacts at AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts 20 12 		
connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - finely stranded with core end processing - finely stranded with core end processing - finely stranded without core end processing - solid or stranded - finely stranded without core end processing - solid or stranded without core end processing - finely stranded without core end processing - solid or stranded - finely stranded without core end processing - solid or stranded - solid		
 finely stranded with core end processing finely stranded without core end processing 0.5 2.5 mm² type of connectable conductor cross-sections for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded without core end processing at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts 20 12 50 12 60 auxiliary contacts 20 12 20 12		
 ◆ finely stranded without core end processing type of connectable conductor cross-sections ◆ for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section ◆ for main contacts — for auxiliary contacts 20 12 ★ for auxiliary contacts 	solid or stranded	0.5 4 mm²
type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded without core end processing 2x (0.5 2.5 mm²) — finely stranded without core end processing 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (20 12) AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12	 finely stranded with core end processing 	0.5 2.5 mm²
 for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — at AWG cables for auxiliary contacts — for main contacts — for auxiliary contacts — solid or stranded 2x (0.5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (20 12) AWG number as coded connectable conductor cross section — for main contacts — for auxiliary contacts 20 12 — for auxiliary contacts 20 12 — solid or stranded 2x (0.5 4 mm²) 2x (0.5 2.5 mm²) 2x (20 12) — solid or stranded 2x (0.5 2.5 mm²) 2x (20 12) — solid or stranded —	 finely stranded without core end processing 	0.5 2.5 mm²
 — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — at AWG cables for auxiliary contacts ■ for main contacts ■ for auxiliary contacts 2x (20 12) AWG number as coded connectable conductor cross section ■ for main contacts ■ for auxiliary contacts 20 12 ■ for auxiliary contacts 20 12 	type of connectable conductor cross-sections	
 — finely stranded with core end processing — finely stranded without core end processing • at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 2x (0.5 2.5 mm²) 2x (20 12) 2x (20 12) 	 for auxiliary contacts 	
 — finely stranded without core end processing at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts 2x (0.5 2.5 mm²) 2x (20 12) 	— solid or stranded	2x (0,5 4 mm²)
 at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts 20 12 20 12 	 finely stranded with core end processing 	2x (0.5 2.5 mm²)
AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 20 12	 finely stranded without core end processing 	2x (0.5 2.5 mm²)
section	at AWG cables for auxiliary contacts	2x (20 12)
 for main contacts for auxiliary contacts 20 12 20 12 		
• for auxiliary contacts 20 12		20 12
•		
	<u> </u>	
product function		
mirror contact according to IEC 60947-4-1 No No No No No No No No No N	•	No

B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
 with high demand rate according to SN 31920 	73 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 y
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
suitability for use	
 safety-related switching OFF 	Yes
0	

Certificates/ approvals

General Product Approval





Confirmation



<u>KC</u>



EMC

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













Marine / Shipping

other

Railway

Dangerous Good



Confirmation



Confirmation

Special Test Certificate <u>Transport Information</u>

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2017-2LB41

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2017-2LB41

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2LB41

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

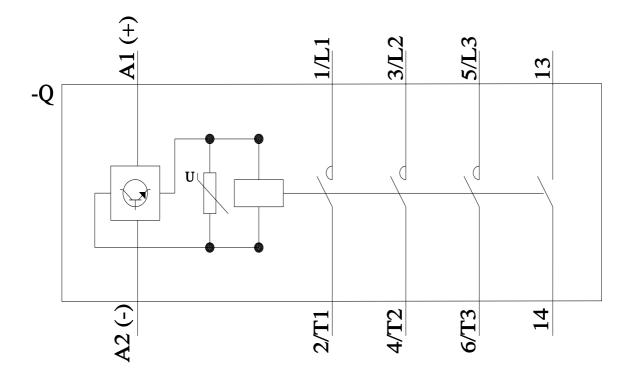
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2017-2LB41&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2LB41/cha

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2017-2LB41&objecttype=14&gridview=view1



last modified: 6/2/2022 🖸