SIEMENS

Data sheet 3RT2015-1JB41



power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 24 V DC, 0.7-1.25* Us, with integrated diode, auxiliary contacts: 1 NO, screw terminal, size: S00, suitable for PLC outputs, not expandable with auxiliary switch

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 	0.6 W
 at AC in hot operating state per pole 	0.2 W
 without load current share typical 	2.8 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 DC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at DC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (operating cycles)	
of contactor typical	30 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
SVHC substance name	Lead - 7439-92-1
Weight	0.294 kg
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	
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global warming potential [CO2 eq] total	153 kg
global warming potential [CO2 eq] during manufacturing	1.42 kg
global warming potential [CO2 eq] during operation	152 kg
global warming potential [CO2 eq] after end of life	-0.305 kg
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 	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	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— 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 at AC-5b up to 400 V rated value	15.8 A
 at AC-5b up to 400 V rated value at AC-6a 	5.8 A
— 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	0.071
— 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 mm²
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	0.42 A
— at 600 V rated value	0.42 A
with 2 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	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 ct 24 V reted value.	1F A
— at 24 V rated value	15 A

at 500 V relied value		
	— at 60 V rated value	
	— at 110 V rated value	15 A
at 800 V rated value	— at 220 V rated value	15 A
- at 1 courrent path at DC-3 at DC-5	— 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 	
• with 2 current paths in series at DC-3 at DC-5 — at 24 V trated value — at 50 V rated value — at 60 V rated	— at 24 V rated value	15 A
	— at 60 V rated value	0.35 A
	 with 2 current paths in series at DC-3 at DC-5 	
→ with 3 current paths in series at DC-3 at DC-5 − at 24 V rated value 15 A − at 160 V rated value 15 A − at 170 V rated value 15 A − at 170 V rated value 15 A − at 220 V rated value 1.2 A − at 400 V rated value 0.14 A − at 600 V rated value 0.14 A − at 220 V rated value 3 kW − at 230 V rated value 3 kW − at 500 V rated value 3 kW − at 230 V rated value 3 kW − at 230 V rated value 4 kW − at 250 V rated value 3 kW − at 250 V rated value 3 kW − at 500 V rated value 3 kW − at 500 V rated value 3 kW − at 690 V rated value 1.5 kW − at 690 V rated value 1.5 kW • at 400 V rated value 1.5 kW • put 500 V rated value 1.5 kW • put 600 V rated value 1.5 kW • put 600 V rated value 1.5 kW • put 600 V for current peak value n=20 rated value 2.7 kVA • put 600 V for current peak value n=30 ra	— at 24 V rated value	15 A
- with 3 current paths in series at DC-3 at DC-5	— at 60 V rated value	3.5 A
at 24 V rated value	— 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 AC-3	— at 220 V rated value	1.2 A
at AC-3		
operating power at AC-3 at at 230 V rated value at 690 V rated value at 690 V rated value at 400 V rated value at 690 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value 4 1.8 kVA 2.9 kVA 1.8 kVA 2.9 kVA 1.8 kVA 2.9 kVA 1.9 kVB minimum cross-section acc. to AC-1 rated value 43 A; Use minimum cross-section acc. to AC-1 rated value 43 A; Use minimum cross-section acc. to AC-1 rated value 43 A; Use minimum cross-section acc. to AC-1 rated value 43 A; Use minimum cross-section acc. to AC-1 rated value 43 A; Use minimum cross-section acc. to AC-1 rated value 44 AC-3 maximum 45 AC-3 maximum 46 AC-3 maximum 57 A; Use minimum cross-section acc. to AC-1 rated value 58 A; Use minimum cross-section acc.		
■ at AC-3 — at 230 V rated value — at 400 V rated value — at 900 V rated value — at 230 V rated value — at 230 V rated value — at 230 V rated value — at 400 V rated value — at 400 V rated value — at 500 V rated value — at 950 V rated value — at 950 V rated value — at 950 V rated value — at 400 V rated value — at 400 V rated value — at 950 V rore current peak value n=20 rated value — up to 230 V for current peak value n=20 rated value — up to 400 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=30 rated value — up to 500		
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operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 400 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching		
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up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C ilimited to 1 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 30 s switching at zero current maximum ilimited to 30 s switching at zero current maximum ilimited to 60 s switching at zero current maximum ilimited to 60 s switching at zero current maximum ilimited to 60 s switching at zero current maximum state of 60 s switching at zero current maximum at a C-2 in tated value 10 000 1/h operating frequency at AC-1 maximum at AC-2 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum at AC-5 maximum at AC-6 maximum at AC-7 maximum at AC-7 maximum at AC-8 maximum at AC-8 maximum at AC-9 maximum at AC-9 maximum at AC-1 maximum at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum at AC-6 maximum at AC-7 maximum at AC-7 maximum at AC-8 maximum at AC-8 maximum at AC-9 maximu		1 kVA
• up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited		
• up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum no-load switching frequency • at DC 10 000 1/h operating frequency • at AC-1 maximum at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum		
short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum 10 000 1/h **Too 1/h • at AC-1 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-6 maximum • at AC-6 maximum • at AC-7 maximum • at AC-6 maximum • at AC-7 maximum • at AC-7 maximum • at AC-8 maximum • at AC-9 maximum • at AC-9 maximum • at AC-9 maximum • at AC-1 maximum • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum • at AC-5 maximum • at AC-6 maximum • at AC-7 maximum • at AC-9		
Ilimited to 1 s switching at zero current maximum Ilimited to 5 s switching at zero current maximum Ilimited to 10 s switching at zero current maximum Ilimited to 10 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Interval in the switching frequency Interval in t		Z.J KVA
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 limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum at AC-1 rated value 10 000 1/h Operating frequency at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3e maximum at AC-4 maximum at AC-4 maximum Control circuit/ Control 67 A; Use minimum cross-section acc. to AC-1 rated value 10 000 1/h 250 1/h 250 1/h Control circuit/ Control Control circuit/ Control	-	
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Ilimited to 60 s switching at zero current maximum no-load switching frequency at DC 10 000 1/h operating frequency at AC-1 maximum 1 000 1/h at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum control circuit/ Control	-	
no-load switching frequency 10 000 1/h operating frequency 1 000 1/h • 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	-	
■ at DC Operating frequency ■ at AC-1 maximum ■ at AC-2 maximum ■ at AC-3 maximum ■ at AC-3 maximum ■ at AC-3 e maximum ■ at AC-4 maximum ■ at AC-4 maximum ■ at AC-4 maximum Control circuit/ Control	·	
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-4 maximum 750 1/h Control circuit/ Control		10 000 1/h
 at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3e maximum at AC-4 maximum at AC-4 maximum 250 1/h Control circuit/ Control		
 at AC-2 maximum at AC-3 maximum at AC-3e maximum at AC-4 maximum at AC-4 maximum 250 1/h Control circuit/ Control		1 000 1/h
 at AC-3 maximum at AC-3e maximum at AC-4 maximum 250 1/h Control circuit/ Control		
 at AC-3e maximum at AC-4 maximum Control circuit/ Control 		
• at AC-4 maximum Control circuit/ Control		
Control circuit/ Control		
type of voltage of the control supply voltage		DC
	type of voltage of the control supply voltage	DC

control cumply voltage at DC rated value	24 \/
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
design of the surge suppressor	diode
closing power of magnet coil at DC	2.8 W
holding power of magnet coil at DC	2.8 W
closing delay	2.0 11
• at DC	25 130 ms
opening delay	20 111 100 1110
• at DC	38 65 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	1
contact	'
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	4.8 A
• at 600 V rated value	6.1 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	0.25 hp
— at 230 V rated value	0.75 hp
• for 3-phase AC motor	
— at 200/208 V rated value	1.5 hp
— at 220/230 V rated value	2 hp
— at 460/480 V rated value	3 hp
— at 575/600 V rated value	5 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V	C characteristic: 10 A; 0.4 kA
design of the fuse link	
• for short-circuit protection of the main circuit	
 — with type of coordination 1 required 	gG: 35A (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, 80kA)

	 for short-circuit protection of the auxiliary switch required installation/ mounting/ dimensions 	gG: 10 A (500 V, 1 kA)
Fastering method side-by-side mounting method Series and shap-on mounting onto 35 mm DIN rail according to DIN EN 807 height S8 mm S8		+/-180° rotation possible on vertical mounting surface; can be tilted forward and
Series in Series and snap-on mounting onto 35 mm DIN rail according to DIN EN 607 mm	factoning method side by side mounting	·
height 58 mm width 48 mm depth 73 mm required spacing ************************************		
Methode Meth		
Application Figure Figur		
e with side-by-side mounting - forwards - upwards - downwards - downwards - of progrunded parts - for grounded parts - forwards - upwards - upwards - upwards - upwards - the side - for grounded parts - forwards - upwards - the side - downwards - upwards - upwards - the side - downwards - upwards - upwards - upwards - the side - downwards - upwards - the side - downwards - to mm - at the side - downwards - downwards - to mm - at the side - downwards - to mm - at the side - downwards - to mm - at the side - downwards - to mm - at the side - for main current circuit - a contactor for auxiliary contacts - of magnet coil - for main current circuit - a sold or stranded - finely stranded with core end processing - for AWC cables for main contacts - solid - finely stranded with core end processing - finely stranded w		
• with side-by-side mounting	·	73 mm
forwards upwards upwards downwards at the side for ground parts forwards upwards upwards upwards upwards downwards downwards downwards for live parts forwards upwards forwards upwards downwards forwards downwards forwards downwards forwards downwards forwards -		
- upwards - downwards - 10 mm		10
- downwards		
- at the side	·	
• for grounded parts		
		U mm
upwards at the side downwards forwards forwards upwards		40
- at the side		
- downwards - for ive parts - lowards - upwards - upwards - at the side - at the side - onnections/ Terminals type of electrical connection - for main current circuit - at contactor for auxiliary contacts - of main contacts - solid - solid or stranded - finely stranded with core end processing - shelid 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 - shelid processing - shelid processing - shelid processing - shelid processing - sheli	·	
• for live parts — forwards — upwards — downwards — downwards — downwards — at the side — for main current circuit — for auxiliary and control circuit — side of auxiliary and control circuit — for auxiliary and control circuit — so for auxiliary and control circuit — for auxiliary and control circuit — so for auxiliary and control circuit — so for auxiliary and control circuit — so for main contacts — solid — solid or stranded — for main contacts — solid or stranded — finely stranded with core end processing — for AWG cables for main contacts — solid — stranded — inely stranded with core end processing — solid or stranded — inely stranded with core end processing — solid o		
forwards		10 mm
- upwards	·	
- downwards - at the side 6 mm onnections/Tominals type of electrical connection • for main current circuit screw-type terminals • at contactor for auxiliary and control circuit screw-type terminals • of magnet coil Screw-type terminals • for main contacts • for main contacts • 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 (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 AWG cables for main contacts • solid • stranded • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 1x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²) • for auxiliary contacts • for positively driven operation according to IEC 60947-5-1 • positively driven operation according to IEC 60947-5-1 • suitable for safety function • mirror contact according to IEC 60947-5-1 • suitable for safety function • suitable for safety function		
at the side at the side onnectable or main current circuit for auxiliary and control circuit for auxiliary contacts for main contacts solid 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 auxiliary contacts solid or stranded finely stranded with core end processing for auxiliary contacts solid or stranded finely stranded with core end processing for faWG cables for auxiliary contacts solid or stranded finely stranded with core end processing for for auxiliary contacts for for auxiliary contacts for for main contacts for mai	•	
type of electrical connection • for main current circuit • at contactor 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 AWOs cables for main contacts • solid or stranded • finely stranded with core end processing • for faviliary contacts • solid or stranded • finely stranded with core end processing • for faviliary 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 • for faviliary contacts • fo		10 mm
Second content circuit Screw-type terminals Screw-type termina		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 — solid or stranded with core end processing • for AWC cables for main contacts • solid • stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • solid or stranded with core end processing • for AWC cables for main contacts • solid or stranded with core end processing • solid or stranded with core end processing • solid or stranded on the core of processing of the core of the cor	Connections/ Terminals	
• for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil • of connectable conductor cross-sections • of main contacts • solid or stranded • solid or stranded with core end processing • for AVIG cables for main contacts • solid • stranded over the conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing • for avid with core end processing • finely stranded with core end processing • for avidilary contacts • solid or stranded • finely stranded with core end processing • for avidilary contacts • for main contacts • for main contacts • for main contacts • for avidilary contacts • for main contacts • for main contacts • for specific data **Total Contact avidilary contacts **Output Device of the contact avide of the contact avidilary contacts **Output Device of the contact avidilary contacts **Ou	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 • for MVG cables for auxiliary contacts • solid or stranded • finely stranded with core end processing • for AVG cables for auxiliary contacts • solid or stranded • finely stranded with core end processing • for AVG cables 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 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 • for AVG cables for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for main contacts • 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 solid or stranded • finely stranded with core end processing • for price auxiliary contacts • for main contacts • for main contacts • for main contacts • for solid or stranded • finely stranded with core end processing • for price auxiliary contacts • for main contacts • for solid or stranded • finely stranded with core end processing • for price auxiliary contacts • for main contacts • for main contacts • for main contacts • for auxiliary contacts • for solid price according to IEC 60947-6-1 • positively driven operation according to IEC 60947-5-1 • for safety function • mirror contact according to IEC 60947-5-1 • for safety function • for safety function	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 • for AWG cables for main contacts • solid • 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 • 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 • for for auxiliar	 for auxiliary and control circuit 	screw-type terminals
Processor Sections ** for main contacts**	 at contactor for auxiliary contacts 	Screw-type terminals
of romain contacts solid solid solid or stranded solid or stranded finely stranded with core end processing of ro AWG cables for main contacts oslid ostranded osolid solid or stranded ostranded ostrander ostrander ostrander ostrander ostrander ostrander ostrander ostrander ostrander	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 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 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 • 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 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 - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - solid or strande	type of connectable conductor cross-sections	
- solid or stranded - finely stranded with core end processing • for AWG cables for main contacts • solid • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • for awdith core end processing • solid • 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 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 • for AWG cables for auxiliary contacts • for fawG cables for auxiliary contacts • for auxiliary contacts - for auxiliary con	 for main contacts 	
- finely stranded with core end processing • for AWG cables for main contacts 2x (20 16), 2x (18 14), 2x 12 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 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 • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross-section • for main contacts • for main contacts • for auxiliary contacts 20 12 • for or auxiliary contacts product function • mirror contact according to IEC 60947-5-1 • positively driven operation according to IEC 60947-5-1 • suitability for use safety-related switching OFF Yes	— solid	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 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 Solid or	— 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 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 Solid or	 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
e solid e stranded e finely stranded with core end processing o finely stranded with core end processing connectable conductor cross-section for auxiliary contacts e solid or stranded e finely stranded with core end processing o finely stranded with core end processing e for auxiliary contacts — solid or stranded — finely stranded with core end processing o for auxiliary contacts — solid or stranded — finely stranded with core end processing e for AWG cables for auxiliary contacts of or AWG cables for auxiliary contacts of or main contacts of or auxiliary contacts of or auxiliary contacts of or auxiliary contacts of or auxiliary contacts of or auxiliary contacts of or auxiliary contacts of or auxiliary contacts of or main contacts of or auxiliary contacts of or auxiliary co	 for AWG cables for main contacts 	
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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 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 for for auxiliary contacts for for auxiliary contacts for auxiliary contacts of or auxiliary contacts for auxiliary contacts for auxiliary contacts of or main contacts of or auxiliary contacts for auxiliary contacts for auxiliary contacts of or auxiliary contacts for auxiliary contacts of or auxiliary contacts of		0.5 4 mm²
finely stranded with core end processing connectable conductor cross-section for auxiliary contacts		
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 with core end processing — 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 (20 15 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 section for main contacts for auxiliary contacts for auxiliary contacts mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 suitable for safety function yes suitability for use safety-related switching OFF Yes 		
• finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded with core end processing — finely stranded with core end processing — for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts • for auxiliary contacts • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 • suitable for safety function • suitable for safety function • yes Suitability for use safety-related switching OFF Yes	· · · · · · · · · · · · · · · · · · ·	0.5 4 mm²
type of connectable conductor cross-sections • 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 section • for main contacts • for auxiliary contacts 20 12 • for auxiliary contacts • for auxiliary contacts • for saviliary contacts • for saviliary contacts • for saviliary contacts • product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 • suitable for safety function suitability for use safety-related switching OFF Yes		
 for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded with core end processing — for AWG cables for auxiliary contacts — solid or stranded with core end processing — finely stranded with core end processing — solid or stranded — solid or stranded with core end processing — solid or stranded — solid or stranded with core end processing — solid or stranded — solid or stranded — solid or stranded — solid or stranded — solid or stranded with core end processing — solid or stranded with core end processing — solid or stranded — solid or stranded with core end processing — solid or stranded with end or stranded with core end processing — solid or stranded with core end processing — solid or stranded with end or str		
— solid or stranded — finely stranded with core end processing — finely stranded with core end processing — for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section — for main contacts — for auxiliary contacts — for auxiliary contacts — for ouxiliary contacts — for ouxiliary contacts — for safety related data Product function — mirror contact according to IEC 60947-4-1 — positively driven operation according to IEC 60947-5-1 — suitable for safety function Suitability for use safety-related switching OFF Yes	••	
— finely stranded with core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 • suitable for safety function suitablility for use safety-related switching OFF 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 14), 2x 12 20 12 20 12 No No Yes	•	2x (0.5
• for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 • for auxiliary contacts 20 12 afety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 • suitable for safety function suitability for use safety-related switching OFF Yes		
AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 • for auxiliary contacts 20 12 afety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 • suitable for safety function suitability for use safety-related switching OFF Yes		
e for main contacts	·	ZX (ZU 10), ZX (10 14), ZX 1Z
for main contacts for auxiliary contacts 20 12 afety related data product function		
for auxiliary contacts afety related data product function mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 suitable for safety function suitability for use safety-related switching OFF Yes No Yes		20 12
product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 • suitable for safety function suitability for use safety-related switching OFF Yes		
Product function	·	
 mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 suitable for safety function suitability for use safety-related switching OFF Yes 		
 positively driven operation according to IEC 60947-5-1 suitable for safety function suitability for use safety-related switching OFF Yes 		No
• suitable for safety function Yes suitability for use safety-related switching OFF Yes	-	
suitability for use safety-related switching OFF Yes		
·	·	
service iiie maximum 20 a	·	
test wear-related service life necessary Yes		

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
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type 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



<u>KC</u>

General	Product Ap-
proval	

EMV

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report

Special Test Certific-<u>ate</u>





Marine / Shipping













Miscellaneous

other

other Railway **Dangerous goods**

Environment

Confirmation

Special Test Certific-<u>ate</u>

Transport Information



Environmental Confirmations

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=3RT2015-1JB41

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2015-1JB41}$

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

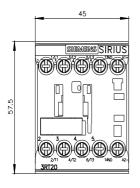
https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-1JB41

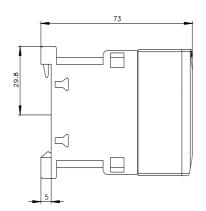
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

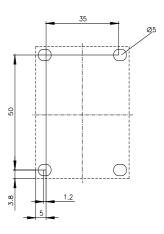
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2015-1JB41&lang=en

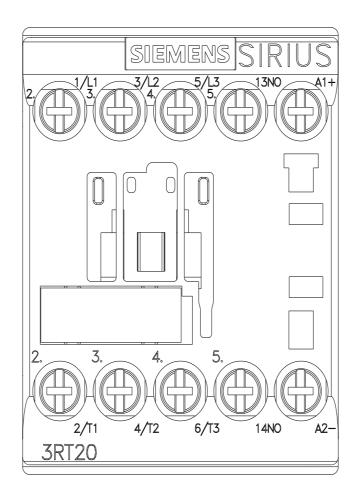
Characteristic: Tripping characteristics, I2t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-1JB41/char

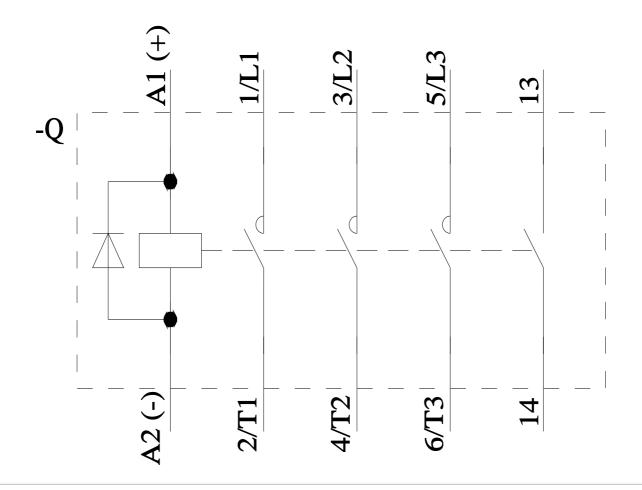
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2015-1JB41&objecttype=14&gridview=view1











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