SIEMENS

Data sheet

3RT2017-2KF42-1LA0



traction contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 110 V DC, 0.7-1.25 * Us, with integrated suppressor diode, auxiliary contacts: 1 NC, spring-loaded terminal, size: S00, with plugged on series resistor, upright mounting position

product brand name	SIRIUS
product designation	Power contactor
design of the product	With extended operating range
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 	3.6 W
 at AC in hot operating state per pole 	1.2 W
without load current share typical	4 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 protective separation 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 (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 	-40 +70 °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	22 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	22 A
value	00.4
 up to 690 V at ambient temperature 60 °C rated value 	20 A
at AC-2 at 400 V rated value	12 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
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
— 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	
— 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	
— 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	
— at 24 V rated value	20 A
— at 24 V rated value — at 110 V rated value	20 A
— at 220 V rated value	1.5 A
— at 440 V rated value	0.2 A
— at 440 V rated value — at 600 V rated value	0.2 A 0.2 A
	0.2 A
operating power	5.5 kW
at AC-2 at 400 V rated value	5.5 kW

• at AC-3	
— 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 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	5.5 kW
operating power for approx. 200000 operating cycles at AC-	
• at 400 V rated value	2 kW
at 690 V rated value	2.5 kW
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	1 500 1/h
operating frequency	
 at AC-2 at AC-3e maximum 	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage	DC
type of voltage of the control supply voltage	DC
control supply voltage at DC	
rated value	110 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	suppressor diode
closing power of magnet coil at DC	13 W
holding power of magnet coil at DC	4 W
closing delay	05 400
• at DC	25 130 ms
opening delay	7. 00
• at DC	7 20 ms
arcing time control version of the switch operating mechanism	10 15 ms E1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts	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	

* 24 2 V rated value		
** at 10 V rated value	at 24 V rated value	10 A
• et 1130 V roted value	 at 48 V rated value 	
1.125 V rated value	at 60 V rated value	2 A
1.220 V rated value	at 110 V rated value	1 A
at 80.0V rated value	 at 125 V rated value 	0.9 A
Tull-oad current (FLA) for 3-phase AC motor • at 480 V rited value • at 600 V rited value • at 600 V rited value • at 1000 V rited value • at 2000 V rited value • for 3-phase AC motor • at 2000 V rited value • at 4040 V rited value • at 4040 V rited value • at 575 F600 V rited value • at 4040 V rited value • at 4040 V rited value • at 575 F600 V rited value • at 4040 V rited value • at 405 V rited value • at 575 F600 V rited value • at 405 V rited value • at 575 F600 V rited value • at 575 F600 V rited value • at 675 F600 V	 at 220 V rated value 	0.3 A
full-load current (FLA) for 3-phase AC motor at 480 V risid value 11 A yielded mechanical performance (hp) • for single-phase AC motor —al 101/120 V rated value 10 S hp • for single-phase AC motor —al 200/280 V rated value • of 3-phase AC motor —al 200/280 V rated value —al 400/480 V rated value —al 500/4800 V rated value —brooked rated value —or 400/480 V rated value —or 500/4800 V rated	 at 600 V rated value 	0.1 A
	UL/CSA ratings	
• at 600 V rated value 11 A	full-load current (FLA) for 3-phase AC motor	
yelded mechanical performance [hp] • for single-phase AC motor — at 101/120 V rated value — at 230 V rated value — at 200/230 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection — with type of coordination 1 required — with type of assignment 2 required — with type of assignment 2 required — for short-circuit protection of the auxiliary switch required — for short-circuit protection of the auxiliary switch required finatilation mounting dimensions mounting position fastening method — side by-side mounting — forwards — side by-side mounting — forwards — at the side — downwards — at the side — downwards — at the side — downwards — of required spacing — with side-by-side mounting — forwards — of required spacing — with side-by-side mounting — forwards — ownwards — ownw	at 480 V rated value	11 A
• for single-phase AC motor — at 101/120 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 200/209 V rated value — at 200/209 V rated value — at 200/209 V rated value — at 675/600 V rated value — with type of coordination 1 required — with type of coordination 1 required — with type of sosignment 2 required for short-circuit protection of the auxiliary switch required installation/mounting/dimensions mounting position standing, on horizontal mounting surface screw and snap-on mounting ourface sc	 at 600 V rated value 	11 A
	yielded mechanical performance [hp]	
- at 230 V rated value 2 hp	 for single-phase AC motor 	
of or 3-phase AC motor	— at 110/120 V rated value	0.5 hp
- at 200/208 V rated value	— at 230 V rated value	2 hp
- at 200/208 V rated value	• for 3-phase AC motor	
- at 220/230 V rated value - at 460/480 V rated value - at 575/500 V rated value - at 690 V rated value - at	·	3 hp
- at 460/480 V rated value - at 575/600 V rated value - 10 hp - at 575/600 V rated value - 20 hp - at 575/600 V rated value - 20 hp -		· ·
- at 575/800 V rated value		
contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection • for short-circuit protection of the main circuit — with type of oardination 1 required — with type of assignment 2 required Installation mounting dimensions mounting position standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 69715 • side-by-side mounting height 70 mm width 45 mm depth required spacing • with side-by-side mounting — forwards — upwards — odwnwards — of mm — odwnwards — of regrounded parts — forwards — 10 mm — at the side — downwards • for live parts — forwards 10 mm — at the side — downwards 10 mm — at the side — forwards 10 mm — at the side — formants Forma		
Short-circuit protection Product function short circuit protection No		·
product function short circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required installation/mounting/dimensions mounting position fastening method • side-by-side mounting • side-by-side mounting • with side-by-side mounting • forwards — downwards — downwards — at the side • downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — to mm • for live parts — forwards — low mm • for live parts — forwards — upwards — downwards — to mm • for live parts — forwards — to man current circuit — downwards — the side • for mina current circuit • for main current circuit • for main current circuit • for main current circuit • for auxiliary and control circuit • for main current circuit • for manicurent circuit • for onnectable conductor cross-sections for main contacts • of magnet coil type 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 (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		1,000, 2000
dosign of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of coordination 1 required — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/mounting/dimensions mounting position fastening method • side-by-side mounting height 70 mm width 45 mm depth 121 mm required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side — downwards — at the side — downwards — of or ilve parts — forwards — upwards — of owards — of wards — of main current circuit — upwards — of wards — at the side — downwards — of main current circuit — of wards — of the sparts — forwards — of main current circuit • for main current circuit • for main current circuit • for mailitary and control circuit • of or auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid • solid • solid • solid • (50.5 \times 1.5 \times 1.2 \times 1.	·	No
• for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting • side-by-side mounting • side-by-side mounting • with side-by-side mounting • with side-by-side mounting • forwards — upwards — upwards — at the side — of orgrounded parts — forwards — upwards — at the side — downwards • for live parts — forwards • for live parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side — downwards • for live parts — forwards — the side — downwards — the side — downwards • for live parts — forwards — the side — downwards — the side — formards — upwards — the side — forwards — at the side — forwards —	<u> </u>	NO .
- with type of coordination 1 required - with type of assignment 2 required - with type of assignment 2 required - or or short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - or short-circuit protection of the auxiliary switch required - or short-circuit protection of the auxiliary switch required - or short-circuit protection of the auxiliary switch required - or short-circuit protection of the auxiliary switch required - or short-circuit protection of the auxiliary switch required - or short-circuit protection of the auxiliary switch required - or short-circuit protection of the auxiliary switch required - or short-circuit protection of the auxiliary switch required - or short-circuit protection of the auxiliary switch required - or short-circuit protection of the auxiliary switch required - or short-circuit spring-loaded terminals - or auxiliary and control circuit - or auxiliary and control crost-sections for main contacts - or solid - or solid - with side on ductor cross-sections for main contacts - solid - volid (50 V, 1 kA) - or short-16 (690V, 100kA), aM: 16A (690V, 10KA), aM: 16A (690V, 100kA), aM:	•	
- with type of assignment 2 required		0 -0.1 (0.0.1 / 1.0.1 /
• for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting width depth required spacing • with side-by-side mounting — forwards — downwards — of rogrounded parts — forwards — upwards — of or grounded parts — forwards — owards —	**	
mounting position standards and standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 • side-by-side mounting		
mounting position fastening method • side-by-side mounting height ves width depth 121 mm required spacing • with side-by-side mounting — forwards — upwards — odownwards — other side — other		gG: 10 A (500 V, 1 kA)
fastening method • side-by-side mounting height 70 mm width 45 mm depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — at the side — downwards — at the side — downwards — at the side — downwards — 10 mm • for grounded parts — forwards — 10 mm • for grounded parts — forwards — 10 mm • for grounded parts — forwards — 10 mm • for grounded parts — forwards — 10 mm • for grounded parts — forwards — 10 mm • for grounded parts — at the side — downwards — 10 mm • for live parts — forwards — upwards — upwards — the side — downwards — the side — downwards — upwards — of or min current circuit • for main current circuit • for auxiliary and control circuit • of magnet coil type of connectable conductor cross-sections for main contacts • solid type of connectable conductor cross-sections for main contacts • solid z (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²		
height 70 mm width 45 mm depth 121 mm required spacing • with side-by-side mounting — forwards 10 mm — upwards 10 mm — at the side 0 mm — of orgrounded parts — upwards 10 mm — at the side 6 mm — ownwards 10 mm • for live parts — forwards 10 mm • for main current circuit spring-loaded terminals type of electrical connection • for main current circuit spring-loaded terminals • at contactor for auxiliary contacts • of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts • solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²		
height 70 mm width 45 mm depth 121 mm required spacing • with side-by-side mounting — forwards 10 mm — upwards 10 mm — at the side 0 mm • for grounded parts — forwards 10 mm • for grounded parts — forwards 10 mm • for grounded parts 10 mm • for grounded parts 10 mm • for prounded parts 10 mm — at the side 6 mm — at the side 6 mm • for live parts 10 mm • for wards 10 mm • for wards 10 mm • for wards 10 mm — at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit spring-loaded terminals • for auxiliary and control circuit spring-loaded terminals • of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts • solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
width 45 mm depth 121 mm required spacing • with side-by-side mounting — forwards 10 mm — upwards 10 mm — downwards 10 mm — at the side 0 mm • for grounded parts 10 mm — upwards 10 mm — at the side 6 mm — downwards 10 mm • for live parts 10 mm — upwards 10 mm — downwards 10 mm — downwards 10 mm — at the side 6 mm Connections/ Terminals type of electrical connection spring-loaded terminals • for main current circuit spring-loaded terminals • of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts Spring-type terminals type of connectable conductor cross-sections for main contacts Spring-type terminals	side-by-side mounting	Yes
depth 121 mm required spacing with side-by-side mounting — forwards 10 mm — upwards 10 mm — downwards 10 mm — at the side 0 mm • for grounded parts 10 mm — upwards 10 mm — upwards 6 mm — downwards 10 mm • for live parts 10 mm — forwards 10 mm — downwards 10 mm — downwards 10 mm — at the side 6 mm Connections/ Terminals 6 mm Connections/ Terminals spring-loaded terminals • for auxiliary and control circuit spring-loaded terminals • of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts • of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts • of magnet coil 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²	height	70 mm
required spacing with side-by-side mounting - forwards - upwards - downwards - at the side of or grounded parts - forwards - upwards - the side of or grounded parts - forwards - upwards - upwards - at the side - downwards - at the side - downwards of for live parts - forwards - upwards - to mm of roll ive parts - forwards - upwards - upwards - upwards - to mm of one tive parts - forwards - upwards - upwards - at the side - downwards - upwards - to mm of one tive parts - for auxiliary contacts of mm connections/ Terminals type of electrical connection of roll auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts of solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²	width	45 mm
 with side-by-side mounting — forwards — upwards — downwards — downwards — at the side o mm for grounded parts — forwards — upwards — upwards — upwards — at the side — downwards — for live parts — for live parts — forwards — upwards — upwards — for live parts — forwards — upwards — upwards — upwards — the side — 6 mm Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 	depth	121 mm
- forwards - upwards - upwards - downwards - at the side of or grounded parts - forwards - upwards - forwards - upwards - at the side - downwards - at the side - downwards - to filive parts - forwards - for live parts - forwards - forwards - upwards - for live parts - forwards - upwards - upwards - upwards - downwards - at the side - downwards - to mm - downwards - to mm	•	
upwards 10 mm 1		
- downwards 10 mm - at the side 0 mm • for grounded parts - forwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm • for live parts - forwards 10 mm • for live parts - forwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 6 mm - downwards 6 mm - downwards 5 mm - at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit spring-loaded terminals • at contactor for auxiliary contacts • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²	required spacing	
- at the side • for grounded parts - forwards - upwards - at the side - at the side - downwards • for live parts - forwards - forwards - forwards - forwards - forwards - forwards - upwards - downwards - upwards - at the side - downwards - at the side - formards - upwards - downwards - at the side - forman 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 type of connectable conductor cross-sections for main contacts • solid o mm - omm - o	required spacing • with side-by-side mounting	10 mm
for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — torwards — forwards — forwards — forwards — upwards — upwards — upwards — downwards — a the side — downwards — at the side — formals — at the side — formals **Connections/ Terminals** **Type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil **Expring-loaded terminals** **Spring-loaded terminals** **Spring-type terminals** **Spring-type terminals** **Spring-type terminals** **Type of connectable conductor cross-sections for main contacts* **Solid**	required spacing • with side-by-side mounting — forwards	
- forwards 10 mm - upwards 6 mm - downwards 10 mm - downwards 10 mm • for live parts - forwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit spring-loaded terminals • at contactor for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts • of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts • solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²	required spacing • with side-by-side mounting — forwards — upwards	10 mm
- upwards - at the side - downwards 10 mm • for live parts - forwards - upwards 10 mm - downwards 10 mm - at the side - downwards - upwards 10 mm - 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 10 mm - downwards - 10 mm - mm	required spacing • with side-by-side mounting — forwards — upwards — downwards	10 mm 10 mm
- at the side - downwards • for live parts - forwards - upwards - upwards - downwards - 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 6 mm Connections/ Terminals 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²	required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side	10 mm 10 mm
 downwards for live parts forwards upwards downwards at the side 6 mm Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid 10 mm 10 mm mm mm<	required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts	10 mm 10 mm 0 mm
 downwards for live parts forwards upwards downwards at the side 6 mm Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid 10 mm 10 mm mm mm<	required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards	10 mm 10 mm 0 mm
 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 spring-loaded terminals Spring-type terminals type of connectable conductor cross-sections for main contacts solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 	required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards	10 mm 10 mm 0 mm 10 mm 10 mm
forwards upwards downwards downwards at the side -	required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — at the side	10 mm 10 mm 0 mm 10 mm 10 mm 6 mm
 — upwards — downwards — at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts • solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 	required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — at the side — downwards	10 mm 10 mm 0 mm 10 mm 10 mm 6 mm
- downwards - at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid 10 mm 6 mm Spring-loaded terminals spring-loaded terminals Spring-type terminals 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²	required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — at the side • of or grounded parts — forwards — upwards — at the side — downwards • for live parts	10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm
- at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit spring-loaded terminals • for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts • solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²	required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — at the side • for grounded parts — forwards — in the side — downwards • for live parts — forwards	10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 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 connections spring-loaded terminals spring-loaded terminals Spring-type terminals Spring-type terminals 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²	required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards	10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 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 spring-loaded terminals Spring-type terminals Spring-type terminals 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²	required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — downwards • for live parts — forwards — upwards — downwards • forwards — downwards — downwards — downwards	10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
 for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid spring-loaded terminals Spring-type terminals 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 	required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at ownwards — at the side — downwards • for live parts — forwards — upwards — upwards — at the side — downwards — at the side — downwards — at the side	10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
 for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid spring-loaded terminals Spring-type terminals 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 	required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — upwards — at the side Connections/ Terminals	10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
 at contactor for auxiliary contacts of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 	required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side Connections/ Terminals type of electrical connection	10 mm 10 mm 0 mm 10 mm
 ◆ of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts ◆ solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 	required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side Connections/ Terminals type of electrical connection • for main current circuit	10 mm 10 mm 0 mm 10 mm
type of connectable conductor cross-sections for main contacts • solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²	required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — torwards — downwards — torwards — upwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit	10 mm 10 mm 0 mm 10 mm spring-loaded terminals spring-loaded terminals
• solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²	required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — 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	10 mm 10 mm 0 mm 10 mm spring-loaded terminals spring-loaded terminals Spring-type terminals
	required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — at the side — downwards — upwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil	10 mm 10 mm 0 mm 10 mm spring-loaded terminals spring-loaded terminals Spring-type terminals
• solid or stranded 2x (0,5 4 mm²)	required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — at the side — downwards — torwards — upwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts	10 mm 10 mm 0 mm 10 mm 5 mm
	required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid	10 mm 10 mm 0 mm 10 mm 5 mm 10 mm 2 spring-loaded terminals 3 spring-loaded terminals 4 spring-type terminals 5 Spring-type terminals 5 Spring-type terminals 6 Spring-type terminals 7 Spring-type terminals

2x (0.5 2.5 mm²)
2x (0.5 2.5 mm²)
2x (0,5 4 mm²)
2x (0.5 2.5 mm²)
2x (0.5 2.5 mm²)
2x (20 12)
20 12
20 12
Yes
No
1 000 000
40 %
73 %
100 FIT
20 a
IP20
finger-safe, for vertical contact from the front
No

General Product Approval



Confirmation





<u>KC</u>



Functional

EMC Safety/Safety of Machinery

Declaration of Conformity
Test Certificates



Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













Marine / Shipping other Railway Dangerous Good



Confirmation



Special Test Certificate

Vibration and Shock

<u>Transport Information</u>

Environment

Further information

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

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

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

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

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2017-2KF42-1LA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2017-2KF42-1LA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2KF42-1LA0

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

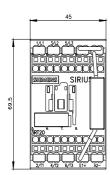
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2017-2KF42-1LA0&lang=en

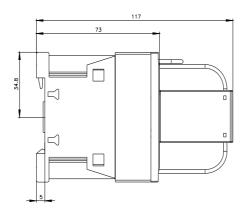
Characteristic: Tripping characteristics, I2t, Let-through current

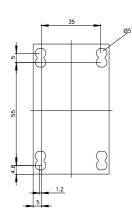
https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2KF42-1LA0/char

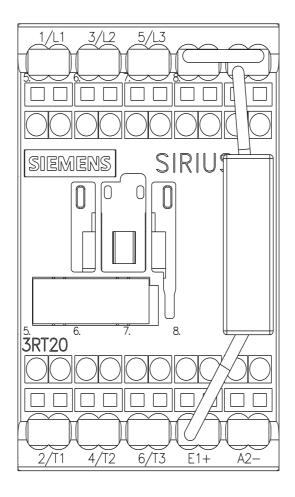
Further characteristics (e.g. electrical endurance, switching frequency)

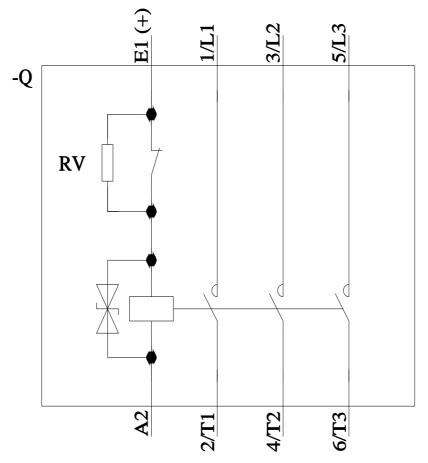
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2017-2KF42-1LA0&objecttype=14&gridview=view1











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