3RT2017-2KB42-0LA0

Data sheet



traction contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 24 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

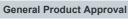
product brand name	SIRIUS
product designation	Power contactor
design of the product	With extended operating range
product type designation	3RT2
General technical data	
size of contactor	S00
product extension	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of 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
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	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
SVHC substance name	Lead - 7439-92-1
Weight	0.347 kg
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 %
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
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	300 1
at AC-1 at 400 V at ambient temperature 40 °C rated	22 A
value	227
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}$ C rated value	22 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	20 A
at AC-2 at 400 V rated valueat AC-3	12 A
— 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	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-4 at 400 V rated value	8.5 A
minimum cross-section in main circuit	0.3 A
at maximum AC-1 rated value	4 mm²
operational current for approx. 200000 operating cycles at	711111
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	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	
— 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 110 V rated value	20 A			
— 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	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 — at 690 V rated value	5.5 kW			
	0.0 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			
Iimited 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	200 1/11			
type of voltage	DC			
type of voltage type of voltage of the control supply voltage	DC			
control supply voltage at DC rated value	24 V			
,	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	suppressor diode			
closing power of magnet coil at DC	13 W			
holding power of magnet coil at DC	4 W			
closing delay	7.0			
	25 120 mg			
• at DC	25 130 ms			
opening delay	7 20 20			
• at DC	7 20 ms			
arcing time	10 15 ms			
control version of the switch operating mechanism	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	1 A			
operational current at DC-12				
• • • • • • • • • • • • • • • • • • • •				

* al 24 V related value * al 48 V related value * al 48 O V related value * al 50 O V related va						
a all 60 V rated value	at 24 V rated value	10 A				
a at 110 V rated value	at 48 V rated value	6 A				
** 1125 V rated value	at 60 V rated value	6 A				
1 A 15 A 1	 at 110 V rated value 	3 A				
a 1600 V rised value	 at 125 V rated value 	2 A				
Operational current at DC-13	 at 220 V rated value 	1 A				
• 12 4V rated value	at 600 V rated value	0.15 A				
• all 48 V rated value	operational current at DC-13					
• at 60 V rated value	 at 24 V rated value 	10 A				
11 10 / rated value	 at 48 V rated value 	2 A				
• at 125 V rated value • 1220 V rated value • 16 000 V rated value • 16 000 V rated value • 16 000 V rated value • 17 000 V rated value • 18 000 V rated value • 18 000 V rated value 11 A • 18 000 V rated value 12 000 V rated value • 19 000 V rated value • 10 10 V rated value • 10 V rated va	 at 60 V rated value 	2 A				
• al 220 V rated value	 at 110 V rated value 	1 A				
1	 at 125 V rated value 	0.9 A				
Full-load current (FLA) for 3-phase AC motor	 at 220 V rated value 	0.3 A				
Full-load current (FLA) for 3-phase AC motor • at 460 V rated value 11 A	 at 600 V rated value 	0.1 A				
• at 480 V rated value	UL/CSA ratings					
• at 800 V rated value 11 A	full-load current (FLA) for 3-phase AC motor					
vicinity	• at 480 V rated value	11 A				
	• at 600 V rated value	11 A				
- at 110/120 V rated value	yielded mechanical performance [hp]					
− at 230 V rated value • for 3-phase AC motor − at 200/280 V rated value − at 220/230 V rated value − at 220/230 V rated value − at 460/480 V rated value − at 75/500 V rated value −	• for single-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 220/230 V rated value	• for 3-phase AC motor					
at 460/480 V rated value 7.5 hp 10 hp 10 hp 2000 V rated value 10 hp 2000 V rated value 10 hp 2000 V rated value 20 how 20 ho	— at 200/208 V rated value	3 hp				
- at 575/600 V rated value contact rating of auxiliary contacts according to UL A600 / O600 Short-circuit protection product function short circuit protection A600 / O600 Product function short circuit protection A600 / O600 No A600 / O600 A600 / O600 No A600 / O600 A600 / O600 No A600 / O600 No A600 / O600 A600 / O600 / O600 / O600 A600 / O600 / O600 / O600 A600 / O600 / O600 / O600 / O600 A600 / O600 / O600 / O600 / O600 A600 / O600 / O600 / O600 / O600 A600 / O600 / O600 / O600 / O600 / O600 A600 / O600 / O600 / O600 / O600 / O600 A600 / O600 / O600 / O600 / O600 / O600 A600 / O600 A600 / O600 /	— at 220/230 V rated value	3 hp				
contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection of the fuse link of or short-circuit protection of the main circuit — with type of coordination 1 required — with type of coordination 1 required — with type of assignment 2 required of or short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required of or short-circuit protection of the auxiliary switch required installation/mounting/dimensions mounting position #/180" rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward b	— at 460/480 V rated value	7.5 hp				
Short-circuit protection product function short circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 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 for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 20A (690V,100kA), BS88: 20A (415V,80kA) gG: 20A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA) gG: 20A (690V,100kA), aM: 20A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA) gG: 20A (690V,100kA), aM: 20A (690V,100kA), a	— at 575/600 V rated value	10 hp				
product function short circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of assignment 2 required • for short-circuit protection of the auxiliary switch 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 • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • fastening method side-by-side mounting fastening method side-by-side mounting • ves fastening method • for mards — upwards — downwards — at the side — downwards • for grounded parts — forwards — upwards — at the side — downwards — odownwards • for live parts — forwards — upwards • for live parts — forwards — upwards • for live parts — forwards — upwards — downwards • for live parts — forwards — upwards — downwards • for live parts — forwards — upwards — downwards — downwards • for live parts — forwards — upwards — downwards • for live parts — forwards — upwards — downwards — downwards • for live parts — forwards — upwards — downwards • for live parts — downwards — downwards — at the side — downwards — downwards — upwards — downwards — upwards — downwards — upwards — downwards — downwards — upwards — downwards — downwards — downwards — downwards — downwards — at the side — downwards — downwards — at the side — downwards — downwards — downwards — at the side — downwards — downwards — downwards — at the side — downwards — downwards — downwards — downwards — at the side — downwards — down	contact rating of auxiliary contacts according to UL	A600 / Q600				
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) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions mounting position #/-180" rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward	Short-circuit protection					
• 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 #/-180* rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5* on vertical mounting surface; can be tilted forward and backward by +/- 22.5* on vertical mounting surface; can be tilted forward and backward by +/- 22.5* on vertical mounting surface; can be tilted forward and backward by +/- 22.5* on vertical mounting surface; can be tilted forward and backward by +/- 22.5* on vertical mounting surface; can be tilted forward and backward by +/- 22.5* on vertical mounting surface; can be tilted forward and backward by +/- 22.5* on vertical mounting surface; can be tilted forward and backward by +/- 22.5* on vertical mounting surface; can be tilted forward and backward by +/- 22.5* on vertical mounting surface; can be tilted forward and backward by +/- 22.5* on vertical mounting surface; can be tilted forward and backward by +/- 22.5* on vertical mounting surface; can be tilted forward and backward by +/- 22.5* on vertical mounting surface; can be tilted forward and backward by +/- 22.5* on vertical mounting surface; can be tilted forward and backward by +/- 22.5* on vertical mounting surface; can be tilted forward and backward by +/- 22.5* on vertical mounting surface; can be tilted forward and backward by +/- 22.5* on vertical mounting surface; can be tilted forward and backward by +/- 22.5* on vertical mounting surface; can be tilted forward and backward by +/- 22.5* on vertical mounting surface; can be tilted forward and backward by +/- 22.5* on vertical mounting surface; can be tilted forward and backward by +/- 22.5* on vertical mounting surface; can be tilted forward and backward by +/- 22.5* on ver	product function short circuit protection	No				
- 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 Installation/ mounting/dimensions mounting position #/-180" rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward backward by +/- 22.5" on vertical mounting surface; can be tilted forward backward	design of the fuse link					
- with type of assignment 2 required	 for short-circuit protection of the main circuit 					
• for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position #/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface fastening method side-by-side mounting Yes fastening method side-by-side mounting Yes fastening method \$\$crew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 70 mm width 45 mm depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — at the side — downwards — the side — downwards — the side — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — upwards — upwards — to mm • for live parts — forwards — upwards — upwards — upwards — upwards — to mm • for live parts — forwards — upwards — upwards — upwards — upwards — upwards — to mm • for live parts — forwards — upwards — upwards — upwards — upwards — upwards — to mm • for live parts — forwards — upwards — the side — downwards — the side — downwards — upwards — upwar	 — with type of coordination 1 required 	gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)				
Installation/ mounting/ dimensions mounting position	 — with type of assignment 2 required 	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)				
mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 70 mm width 45 mm depth 121 mm required spacing 0 with side-by-side mounting - forwards 10 mm - upwards 10 mm - downwards 10 mm • for grounded parts 0 mm - forwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm • for live parts 10 mm - forwards 10 mm - mutual mounting surface: can be tilted forward and backward by +/- 22.5° on vertical mounting surface: can be tilted forwards and surface: can be tilted forward and backwards and surface: can be tilted forwards and surface: can be tilted for many and surface: can be tilted forwards and surface: can be tilted for many	 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)				
fastening method side-by-side mounting Yes fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 70 mm width 45 mm depth required spacing • with side-by-side mounting — forwards — upwards — downwards — of or grounded parts — forwards — at the side — downwards — at the side — downwards — of mm • for live parts — forwards — upwards — upwards — of mm — upwards — at the side — downwards — to mm • for live parts — forwards — upwards — upwards — upwards — to mm • for live parts — forwards — upwards — upwards — upwards — upwards — to mm • for live parts — forwards — upwards — up	Installation/ mounting/ dimensions					
fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 70 mm 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 - at the side 6 mm - downwards 10 mm • for live parts 10 mm - forwards 10 mm - downwards 10 mm - for kerner 6 mm - for kerner 6 mm	mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface				
height 70 mm width 45 mm depth 121 mm required spacing	fastening method side-by-side mounting	Yes				
height 70 mm width 45 mm depth 121 mm required spacing	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715				
depth 121 mm required spacing • with side-by-side mounting	height					
required spacing	width	45 mm				
 with side-by-side mounting — forwards — upwards — downwards — at the side for grounded parts — forwards — upwards — upwards — at the side — at the side — form — downwards I0 mm — downwards I0 mm • for live parts — forwards — upwards <li< td=""><td>depth</td><td>121 mm</td></li<>	depth	121 mm				
— 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	required spacing					
— 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	 with side-by-side mounting 					
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 upwards 10 mm downwards 10 mm upwards 10 mm upwards 10 mm upwards 10 mm downwards 10 mm downwards 10 mm downwards 10 mm at the side 6 mm	— forwards	10 mm				
 — at the side for grounded parts — forwards — upwards — at the side — downwards — for live parts — forwards — upwards — downwards — downwards — at the side 0 mm 10 mm — downwards — at the side 	— upwards	10 mm				
 for grounded parts — forwards — upwards — at the side — downwards ● for live parts — forwards — upwards — upwards — downwards — at the side 6 mm 	— downwards	10 mm				
— forwards 10 mm — upwards 10 mm — at the side 6 mm — downwards 10 mm • for live parts 10 mm — upwards 10 mm — downwards 10 mm — at the side 6 mm	— at the side	0 mm				
— upwards 10 mm — at the side 6 mm — downwards 10 mm • for live parts 10 mm — upwards 10 mm — downwards 10 mm — at the side 6 mm	 for grounded parts 					
 — at the side — downwards ● for live parts — forwards — upwards — downwards — at the side 6 mm 10 mm 10 mm 6 mm 	— forwards	10 mm				
— downwards 10 mm ● for live parts 10 mm — forwards 10 mm — upwards 10 mm — downwards 10 mm — at the side 6 mm	— upwards	10 mm				
● for live parts — forwards 10 mm — upwards 10 mm — downwards 10 mm — at the side 6 mm	— at the side	6 mm				
— forwards 10 mm — upwards 10 mm — downwards 10 mm — at the side 6 mm	— downwards	10 mm				
 upwards downwards at the side 10 mm 6 mm 	• for live parts					
— downwards 10 mm — at the side 6 mm	— forwards	10 mm				
— at the side 6 mm	— upwards	10 mm				
******	— downwards	10 mm				
Connections/ Terminals	— 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			
 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)			
type of connectable conductor cross-sections				
 for auxiliary contacts 				
— 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)			
 for AWG cables for auxiliary contacts 	2x (20 12)			
AWG number as coded connectable conductor cross section				
 for main contacts 	20 12			
 for auxiliary contacts 	20 12			
Safety related data				
product function				
 mirror contact according to IEC 60947-4-1 	Yes			
 positively driven operation according to IEC 60947-5-1 	No			
suitable for safety function	Yes			
suitability for use safety-related switching OFF	Yes			
service life 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			
Communication/ Protocol				
product function bus communication	No			
Approvals Certificates				









Confirmation



<u>KC</u>

General Product Ap-

EMV

Test Certificates



Marine / Shipping





Type Test Certificates/Test Report

Special Test Certificate

other

Marine / Shipping













other	Railway	Dangerous goods	Environment		
Confirmation	Special Test Certificate	Transport Information	EDD	Environmental Con- firmations	

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=3RT2017-2KB42-0LA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2017-2KB42-0LA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2KB42-0LA0

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

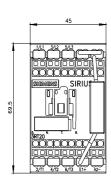
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2017-2KB42-0LA0&lang=en

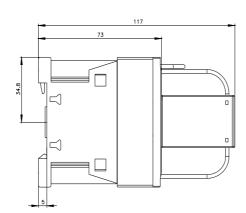
Characteristic: Tripping characteristics, I2t, Let-through current

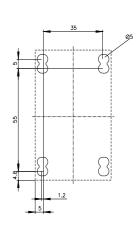
https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2KB42-0l

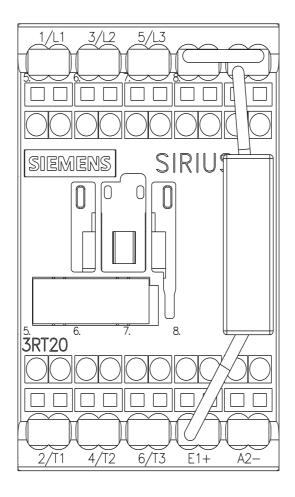
Further characteristics (e.g. electrical endurance, switching frequency)

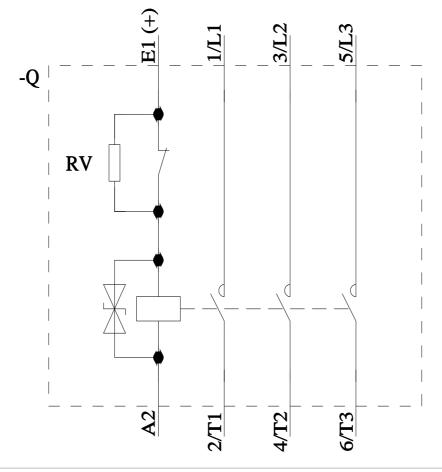
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2017-2KB42-0LA0&objecttype=14&gridview=view1











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