SIEMENS

Data sheet

3RT2017-2LB42-0LA0



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 varistor, auxiliary contacts: 1 NC, spring-loaded terminal, size: S00, with plugged on series resistor

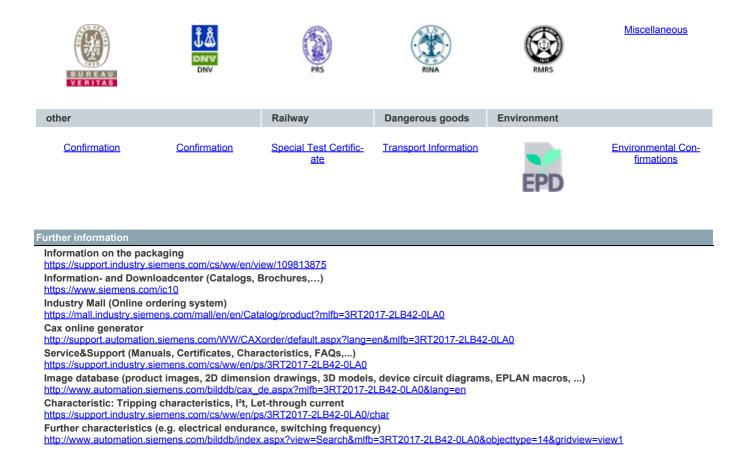
product brand name	SIRIUS				
product designation	Power contactor				
design of the product	With extended operating range				
product type designation	3RT2				
General technical data					
size of contactor	S00				
product extension					
 function module for communication 	No				
 auxiliary switch 	Yes				
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				
mbient 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 %				

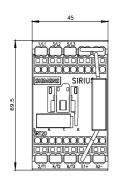
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] total	153 kg
Global Warming Potential [CO2 eq] during manufacturing	1.42 kg
Global Warming Potential [CO2 eq] during manufacturing Global Warming Potential [CO2 eq] during operation	1.42 kg
Global Warming Potential [CO2 eq] after end of life	-0.305 kg
Main circuit	<u></u>
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	600 V /
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operational current	22 A
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	22 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	22 A
value	
— up to 690 V at ambient temperature 60 °C rated	20 A
value	40.4
• at AC-2 at 400 V rated value	12 A
• at AC-3	10.4
- 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	12 A
- at 400 V rated value	9.2 A
- at 500 V rated value	
 at 690 V rated value at AC-4 at 400 V rated value 	6.7 A 8.5 A
minimum cross-section in main circuit	0.5 A
at maximum AC-1 rated value	4 mm ²
operational current for approx. 200000 operating cycles at	4 100
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 	

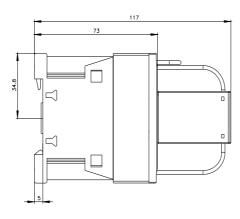
— at 24 V rated value	20 A				
— at 110 V rated value	20 A				
— at 220 V rated value	1.5 A				
— at 440 V rated value	0.2 A				
— at 600 V rated value	0.2 A				
operating power					
at AC-2 at 400 V rated value	5.5 kW				
• at AC-3					
— at 230 V rated value	3 kW				
— at 400 V rated value	5.5 kW				
— at 500 V rated value	5.5 kW				
— at 690 V rated value	5.5 kW				
• at AC-3e	5.5 KW				
- at 230 V rated value	2 MM				
— at 400 V rated value	3 kW				
	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- 4					
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					
	750.44				
• at AC 2 at AC 3e maximum					
• at AC-2 at AC-3e maximum	750 1/h				
• at AC-4 maximum	750 1/h 250 1/h				
at AC-4 maximum Control circuit/ Control	250 1/h				
at AC-4 maximum Control circuit/ Control type of voltage	250 1/h DC				
at AC-4 maximum Control circuit/ Control type of voltage type of voltage of the control supply voltage	250 1/h				
tat AC-4 maximum Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC rated value	250 1/h DC DC				
tat AC-4 maximum Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC rated value	250 1/h DC				
tat AC-4 maximum Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC rated value operating range factor control supply voltage rated value of	250 1/h DC DC				
tat AC-4 maximum Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC rated value o operating range factor control supply voltage rated value of magnet coil at DC	250 1/h DC DC 24 V				
tat AC-4 maximum Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value	250 1/h DC DC 24 V 0.7				
tat AC-4 maximum Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC rated value o operating range factor control supply voltage rated value of magnet coil at DC initial value ifull-scale value	250 1/h DC DC 24 V 0.7 1.25				
tat AC-4 maximum Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC rated value o operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value design of the surge suppressor	250 1/h DC DC 24 V 0.7 1.25 with varistor				
tat AC-4 maximum Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC rated value o operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value design of the surge suppressor closing power of magnet coil at DC	250 1/h DC DC 24 V 0.7 1.25 with varistor 13 W				
tat AC-4 maximum Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC rated value o operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC	250 1/h DC DC 24 V 0.7 1.25 with varistor				
tat AC-4 maximum Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC rated value o o operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay	250 1/h DC DC 24 V 0.7 1.25 with varistor 13 W 4 W				
tat AC-4 maximum Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC rated value o operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC	250 1/h DC DC 24 V 0.7 1.25 with varistor 13 W				
tat AC-4 maximum Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC rated value o operating range factor control supply voltage rated value of magnet coil at DC o initial value full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay o at DC opening delay	250 1/h DC DC 24 V 0.7 1.25 with varistor 13 W 4 W 25 130 ms				
tat AC-4 maximum Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC rated value o operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC opening delay at DC	250 1/h DC DC 24 V 0.7 1.25 with varistor 13 W 4 W 25 130 ms 7 20 ms				
tat AC-4 maximum Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC rated value o operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC opening delay at DC arcing time	250 1/h DC DC 24 V 0.7 1.25 with varistor 13 W 4 W 25 130 ms 7 20 ms 10 15 ms				
tat AC-4 maximum Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC rated value o operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC opening delay at DC arcing time control version of the switch operating mechanism	250 1/h DC DC 24 V 0.7 1.25 with varistor 13 W 4 W 25 130 ms 7 20 ms				
tat AC-4 maximum Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC rated value o operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC opening delay at DC arcing time control version of the switch operating mechanism Auxiliary circuit	250 1/h DC DC 24 V 0.7 1.25 with varistor 13 W 4 W 25 130 ms 7 20 ms 10 15 ms E1 - A2				
at AC-4 maximum Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC rated value o operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC opening delay at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts	250 1/h DC DC 24 V 0.7 1.25 with varistor 13 W 4 W 25 130 ms 7 20 ms 10 15 ms E1 - A2				
tat AC-4 maximum Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC rated value o operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC opening delay at DC arcing time control version of the switch operating mechanism Auxiliary circuit	250 1/h DC DC 24 V 0.7 1.25 with varistor 13 W 4 W 25 130 ms 7 20 ms 10 15 ms E1 - A2				
at AC-4 maximum Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC rated value o operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC opening delay at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts	250 1/h DC DC 24 V 0.7 1.25 with varistor 13 W 4 W 25 130 ms 7 20 ms 10 15 ms E1 - A2				
at AC-4 maximum Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC rated value o operating range factor control supply voltage rated value of magnet coil at DC initial value iull-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC opening delay at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts operational current at AC-12 maximum	250 1/h DC DC 24 V 0.7 1.25 with varistor 13 W 4 W 25 130 ms 7 20 ms 10 15 ms E1 - A2				
at AC-4 maximum Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC rated value o operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC opening delay at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts operational current at AC-12 maximum operational current at AC-15	250 1/h DC DC 24 V 0.7 1.25 with varistor 13 W 4 W 25 130 ms 7 20 ms 10 15 ms E1 - A2 1 10 A				
at AC-4 maximum Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC rated value o operating range factor control supply voltage rated value of magnet coil at DC initial value o tuber of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay o at DC opening delay o at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts operational current at AC-12 maximum operational current at AC-15 o at 230 V rated value	250 1/h DC DC 24 V 0.7 1.25 with varistor 13 W 4 W 25 130 ms 7 20 ms 10 15 ms E1 - A2 1 10 A				
 at AC-4 maximum Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC opening delay at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value 	250 1/h DC DC 24 V 0.7 1.25 with varistor 13 W 4 W 25 130 ms 7 20 ms 10 15 ms E1 - A2 1 10 A 3 A				
 at AC-4 maximum Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC holding power of magnet coil at DC closing delay at DC opening delay at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value 	250 1/h DC DC 24 V 0.7 1.25 with varistor 13 W 4 W 25 130 ms 7 20 ms 10 15 ms E1 - A2 1 1 A 3 A 2 A				
 at AC-4 maximum Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC holding power of magnet coil at DC closing delay at DC opening delay at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts operational current at AC-15 at 230 V rated value at 500 V rated value at 690 V rated value 	250 1/h DC DC 24 V 0.7 1.25 with varistor 13 W 4 W 25 130 ms 7 20 ms 10 15 ms E1 - A2 1 1 A 3 A 2 A				

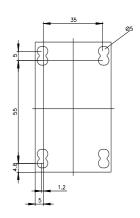
 at 48 V rated value 				
	6 A			
• at 60 V rated value	6 A			
• at 110 V rated value	3 A			
• at 125 V rated value	2 A			
• at 220 V rated value	1 A			
 at 600 V rated value 	0.15 A			
operational current at DC-13				
at 24 V rated value	10 A			
at 48 V rated value	2 A			
at 40 V rated value	2 A			
at 110 V rated value	1A			
at 125 V rated value	0.9 A			
at 220 V rated value	0.3 A			
at 600 V rated value	0.1 A			
UL/CSA ratings				
full-load current (FLA) for 3-phase AC motor				
 at 480 V rated value 	11 A			
 at 600 V rated value 	11 A			
yielded mechanical performance [hp]				
 for single-phase AC motor 				
— at 110/120 V rated value	0.5 hp			
— at 230 V rated value	2 hp			
 for 3-phase AC motor 				
— at 200/208 V rated value	3 hp			
— at 220/230 V rated value	3 hp			
— at 460/480 V rated value	7.5 hp			
— at 575/600 V rated value	10 hp			
contact rating of auxiliary contacts according to UL	A600 / Q600			
Short-circuit protection	A0007 Q000			
	Na			
product function short circuit protection	No			
design of the fuse link				
 for short-circuit protection of the main circuit 				
- with type of coordination 1 required	gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)			
 — with type of coordination 1 required — with type of assignment 2 required 	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)			
 — with type of coordination 1 required — with type of assignment 2 required for short-circuit protection of the auxiliary switch required 				
 — with type of coordination 1 required — with type of assignment 2 required 	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA)			
 — with type of coordination 1 required — with type of assignment 2 required for short-circuit protection of the auxiliary switch required 	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)			
 with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions 	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and			
 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 	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface			
 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 	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
 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 height 	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 70 mm			
	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 70 mm 45 mm			
 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 height width depth	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 70 mm 45 mm			
 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 height width depth required spacing	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 70 mm 45 mm			
 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 height width depth required spacing • with side-by-side mounting	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 70 mm 45 mm 121 mm			
 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 height width depth required spacing • with side-by-side mounting — forwards	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 70 mm 45 mm 121 mm			
 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 height width depth required spacing • with side-by-side mounting — forwards — upwards	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 70 mm 45 mm 121 mm 10 mm 10 mm			
 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 height width depth required spacing with side-by-side mounting forwards upwards downwards at the side 	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 70 mm 45 mm 121 mm 10 mm 10 mm			
 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 height width depth required spacing • with side-by-side mounting — forwards — upwards — at the side • for grounded parts	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 70 mm 45 mm 121 mm 10 mm 10 mm 0 mm			
 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 height width depth required spacing • with side-by-side mounting — forwards — upwards — at the side • for grounded parts — forwards	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 70 mm 45 mm 121 mm 10 mm 10 mm 10 mm 10 mm			
 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 height width depth required spacing • with side-by-side mounting - forwards - upwards - at the side • for grounded parts - upwards - upwards - upwards	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 70 mm 45 mm 121 mm 10 mm 10 mm 0 mm 10 mm			
 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 height width depth required spacing • with side-by-side mounting — forwards — upwards — at the side • for grounded parts — upwards — at the side — at the side — at the side	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 70 mm 45 mm 121 mm 10 mm 10 mm 10 mm 10 mm 10 mm 6 mm			
 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 height width depth required spacing with side-by-side mounting forwards upwards a the side for grounded parts forwards upwards at the side forwards upwards at the side downwards 	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 70 mm 45 mm 121 mm 10 mm 10 mm 0 mm 10 mm			
 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 height width depth required spacing • with side-by-side mounting - forwards - upwards - at the side • for grounded parts - forwards - upwards - at the side • for grounded parts - downwards - at the side - forwards - upwards - forwards - fo	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 70 mm 45 mm 121 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm			
 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 height width depth required spacing with side-by-side mounting forwards upwards at the side for grounded parts forwards at the side for grounded parts at the side downwards at the side forwards odownwards odownwards for live parts for live parts forwards 	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 70 mm 45 mm 121 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm			
 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 height width depth required spacing with side-by-side mounting forwards upwards downwards at the side for grounded parts forwards at the side for grounded parts forwards at the side for live parts for live parts forwards upwards for live parts prover dis upwards upwards for live parts prover dis upwards 	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 70 mm 45 mm 121 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm			
 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 height width depth required spacing with side-by-side mounting forwards upwards a the side for grounded parts forwards at the side for wards at the side for grounded parts forwards at the side for live parts forwards upwards at the side for live parts forwards upwards at the side for live parts forwards at the side forwards for live parts downwards at the side forwards for live parts forwards at the side forwards for live parts at the side forwards for live parts at the side forwards at the side a	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 70 mm 45 mm 121 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm			
 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 height width depth required spacing • with side-by-side mounting - forwards - upwards - at the side • for grounded parts - forwards - upwards - at the side • for live parts - forwards - upwards - at the side - downwards - forwards - upwards - at the side	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 70 mm 45 mm 121 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm			
 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 height width depth required spacing with side-by-side mounting forwards upwards a the side for grounded parts forwards at the side for wards at the side for grounded parts forwards at the side for live parts forwards upwards at the side for live parts forwards upwards at the side for live parts forwards at the side forwards for live parts downwards at the side forwards for live parts forwards at the side forwards for live parts at the side forwards for live parts at the side forwards at the side a	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 70 mm 45 mm 121 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm			
 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 height width depth required spacing • with side-by-side mounting — forwards — upwards — at the side • for grounded parts — forwards — upwards • for live parts — forwards • for live parts — forwards • for live parts — downwards • for live parts — downwards • at the side • for live parts — downwards • for live parts — at the side • for wards • for live parts — at the side — downwards • for live parts — at the side	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 70 mm 45 mm 121 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm			

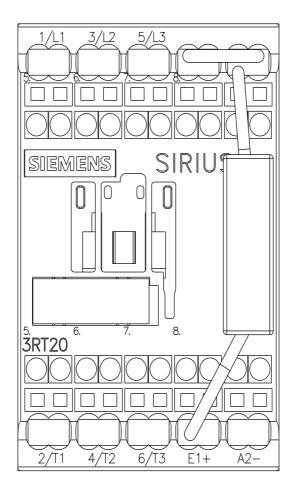
 for auxiliary and control circuit 		sprinc	-loaded terminals		
at contactor for auxiliary contacts			g-type terminals		
of magnet coil			ing-type terminals		
type of connectable conductor cross-sections for ma	ain contacts		5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -		
• solid		2x (0.	5 1.5 mm²), 2x (0.75	2.5 mm²). 2x 4 mm²	
solid or stranded			5 4 mm²)	,, _,	
 finely stranded with core end processing 					
 finely stranded with out core end processing finely stranded without core end processing 			2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)		
type of connectable conductor cross-sections		2A (0.	5 2.5 mm)		
for auxiliary contacts					
- solid or stranded		2v (0	$5 (1 mm^2)$		
		2x (0,5 4 mm²) 2x (0.5 2.5 mm²)			
 finely stranded with core end processing 	-				
— finely stranded without core end process	sing		2x (0.5 2.5 mm²) 2x (20 12)		
• for AWG cables for auxiliary contacts AWG number as coded connectable conductor of section	ross	2X (2U) 12)		
for main contacts		20	12		
for auxiliary contacts		20			
Safety related data		20			
product function		Voc			
mirror contact according to IEC 60947-4-1	0047 5 4	Yes			
 positively driven operation according to IEC 6 a suitable for apfate function 	0947-5-1	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 31920	to SN	100 F	IT		
ISO 13849					
device type according to ISO 13849-1		3			
overdimensioning according to ISO 13849-2 nec	essary	Yes			
IEC 61508					
safety device type according to IEC 61508-2		Туре	A		
Electrical Safety		1500			
protection class IP on the front according to IEC		IP20			
touch protection on the front according to IEC 6	0529	finger	-safe, for vertical contact	from the front	
Communication/ Protocol					
product function bus communication		No			
Approvals Certificates					
General Product Approval					
	Confirmation	<u>n</u>	(m)	ŝ	<u>KC</u>
			(m)	("L)	
EG-Konf.			ccc	UL	
General Product Ap-	Functional Saft	tov	Test Certificates		Marine / Shipping
proval	anctional oan	iey	rest certificates		Marine / Shipping
• •	See Errort 1	- 0-	Time Test O 100	Openial Test O 110	
רחר 🔊 א	ype Examination tificate	n Cer-	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	Star B
FHI 🖉				<u></u>	a stra
RCM					ABS
Marine / Shipping					other

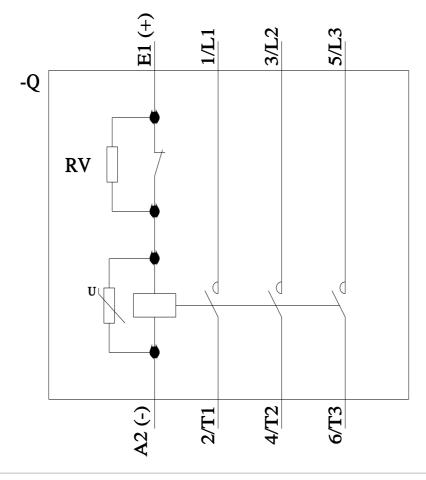












last modified:

6/6/2024 🖸

8/19/2024