## **SIEMENS**

Data sheet 3RT2037-1AG24



power contactor, AC-3e/AC-3, 65 A, 30 kW / 400 V, 3-pole, 110 V AC, 50/60 Hz, auxiliary contacts: 2 NO + 2 NC, screw terminal, size: S2, removable auxiliary switch

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	No
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	11.4 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	3.8 W
without load current share typical	6.5 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
of auxiliary circuit with degree of pollution 3 rated value	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	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 AC	9.8g / 5 ms, 6.5g / 10 ms
shock resistance with sine pulse	
• at AC	15.3g / 5 ms, 10.1g / 10 ms
mechanical service life (operating cycles)	
of contactor typical	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	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)	
Weight	1.069 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %

Environmental footprint	
Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] total	236 kg
Global Warming Potential [CO2 eq] during manufacturing	4.11 kg
Global Warming Potential [CO2 eq] during operation	233 kg
Global Warming Potential [CO2 eq] after end of life	-0.635 kg
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated value     at AC-1	80 A
— up to 690 V at ambient temperature 40 °C rated value	80 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	70 A
• at AC-3	
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value  • at AC-3e	47 A
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value	47 A
at AC-4 at 400 V rated value	55 A
at AC-5a up to 690 V rated value	70.4 A
at AC-5b up to 400 V rated value	53.9 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	56.9 A
— up to 400 V for current peak value n=20 rated value	56.9 A
— up to 500 V for current peak value n=20 rated value	56.9 A
— up to 690 V for current peak value n=20 rated value	47 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	38 A
— up to 400 V for current peak value n=30 rated value	38 A
— up to 500 V for current peak value n=30 rated value	38 A
— up to 690 V for current peak value n=30 rated value	38 A
minimum cross-section in main circuit at maximum AC-1 rated value	25 mm²
operational current for approx. 200000 operating cycles at AC-4	
<ul> <li>at 400 V rated value</li> </ul>	28 A
at 690 V rated value	22 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	23 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A

a with 2 current noths in series at DC 1	
with 3 current paths in series at DC-1  at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
at 1 current path at DC-3 at DC-5	1.4 A
— at 24 V rated value	35 A
— at 60 V rated value	6 A
— at 220 V rated value	1.4
— at 440 V rated value	0.1 A
— at 600 V rated value	0.06 A
with 2 current paths in series at DC-3 at DC-5	0.00 A
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 100 V rated value  — at 110 V rated value	25 A
	5 A
— at 220 V rated value — at 440 V rated value	0.27 A
— at 600 V rated value  — at 600 V rated value	0.16 A
with 3 current paths in series at DC-3 at DC-5	0.10 A
·	55 A
— at 24 V rated value — at 60 V rated value	55 A 55 A
— at 110 V rated value  — at 110 V rated value	55 A
— at 220 V rated value	25 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.35 A
operating power	0.33 A
at AC-2 at 400 V rated value	30 kW
• at AC-3	JU NVV
— at 230 V rated value	18.5 kW
— at 400 V rated value	30 kW
— at 500 V rated value	37 kW
— at 690 V rated value	37 kW
• at AC-3e	OT NY
— at 230 V rated value	18.5 kW
— at 400 V rated value	30 kW
— at 500 V rated value	37 kW
— at 690 V rated value	37 kW
operating power for approx. 200000 operating cycles at AC-	O' NI
4	
• at 400 V rated value	14.7 kW
at 690 V rated value	20 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	22.6 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	39.4 kVA
• up to 500 V for current peak value n=20 rated value	49.2 kVA
• up to 690 V for current peak value n=20 rated value	56.1 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	15.1 kVA
• up to 400 V for current peak value n=30 rated value	26.2 kVA
• up to 500 V for current peak value n=30 rated value	32.8 kVA
• up to 690 V for current peak value n=30 rated value	45.3 kVA
short-time with stand current in cold operating state up to 40 $^{\circ}\text{C}$	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	1 055 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	730 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	520 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	336 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	272 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	

• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	800 1/h
at AC-2 maximum	400 1/h
• at AC-3 maximum	700 1/h
at AC-3e maximum	700 1/h
at AC-4 maximum	200 1/h
Control circuit/ Control	200 1/11
type of voltage of the control supply voltage	AC
control supply voltage at AC	AC
at 50 Hz rated value	110 V
at 60 Hz rated value	110 V
operating range factor control supply voltage rated value of	110 V
magnet coil at AC	
● at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
● at 50 Hz	210 VA
● at 60 Hz	188 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.69
● at 60 Hz	0.65
apparent holding power of magnet coil at AC	
● at 50 Hz	17.2 VA
● at 60 Hz	16.5 VA
inductive power factor with the holding power of the coil	
● at 50 Hz	0.36
● at 60 Hz	0.39
closing delay	
• at AC	10 80 ms
opening delay	
• at AC	10 18 ms
	10 18 ms 10 20 ms
• at AC	
• at AC arcing time	10 20 ms
at AC     arcing time     control version of the switch operating mechanism	10 20 ms
at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     number of NC contacts for auxiliary contacts instantaneous	10 20 ms Standard A1 - A2
at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     number of NC contacts for auxiliary contacts instantaneous contact     number of NO contacts for auxiliary contacts instantaneous	10 20 ms Standard A1 - A2
at AC     arcing time     control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact	10 20 ms Standard A1 - A2
at AC     arcing time     control version of the switch operating mechanism     Auxiliary circuit     number of NC contacts for auxiliary contacts instantaneous contact     number of NO contacts for auxiliary contacts instantaneous contact     operational current at AC-12 maximum	10 20 ms Standard A1 - A2
at AC arcing time control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15	10 20 ms Standard A1 - A2  2  2  10 A
at AC  arcing time  control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  at 230 V rated value	10 20 ms Standard A1 - A2  2  2  10 A  6 A
at AC arcing time control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  at 230 V rated value  at 400 V rated value	10 20 ms Standard A1 - A2  2  10 A  6 A 3 A
at AC  arcing time  control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  at 230 V rated value at 400 V rated value at 500 V rated value	10 20 ms Standard A1 - A2  2  10 A  6 A 3 A 2 A
at AC  arcing time  control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  at 230 V rated value  at 400 V rated value  at 500 V rated value  at 690 V rated value	10 20 ms Standard A1 - A2  2  10 A  6 A 3 A 2 A
at AC  arcing time  control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  at 230 V rated value  at 400 V rated value  at 500 V rated value  at 690 V rated value  operational current at DC-12	10 20 ms Standard A1 - A2  2  2  10 A  6 A  3 A  2 A  1 A
at AC  arcing time  control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  at 230 V rated value  at 400 V rated value  at 500 V rated value  at 690 V rated value  operational current at DC-12  at 24 V rated value	10 20 ms Standard A1 - A2  2  2  10 A  6 A  3 A  2 A  1 A
at AC arcing time control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value  operational current at DC-12  at 24 V rated value at 48 V rated value  at 48 V rated value	10 20 ms Standard A1 - A2  2  10 A  6 A  3 A  2 A  1 A
at AC arcing time control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  at 230 V rated value at 400 V rated value at 690 V rated value  at 690 V rated value  operational current at DC-12  at 24 V rated value at 48 V rated value at 60 V rated value  at 60 V rated value  at 60 V rated value  at 60 V rated value  at 60 V rated value  at 60 V rated value  at 60 V rated value  at 60 V rated value	10 20 ms Standard A1 - A2  2  10 A  6 A  3 A  2 A  1 A  10 A  6 A  6 A
at AC arcing time control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  at 230 V rated value  at 400 V rated value  at 690 V rated value  at 690 V rated value  at 690 V rated value  at 48 V rated value  at 48 V rated value  at 48 V rated value  at 60 V rated value  at 110 V rated value  at 110 V rated value	10 20 ms Standard A1 - A2  2  10 A  6 A  3 A  2 A  1 A  10 A  6 A  6 A  3 A
at AC arcing time control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  at 230 V rated value  at 400 V rated value  at 500 V rated value  at 690 V rated value  at 690 V rated value  at 24 V rated value  at 48 V rated value  at 48 V rated value  at 60 V rated value  at 110 V rated value  at 125 V rated value  at 125 V rated value	10 20 ms Standard A1 - A2  2  2  10 A  6 A  3 A  2 A  1 A  10 A  6 A  6 A  6 A  6 A  3 A  2 A
at AC  arcing time  control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  at 230 V rated value  at 400 V rated value  at 500 V rated value  at 690 V rated value  at 24 V rated value  at 48 V rated value  at 48 V rated value  at 48 V rated value  at 60 V rated value  at 110 V rated value  at 125 V rated value  at 125 V rated value  at 220 V rated value	10 20 ms Standard A1 - A2  2  2  10 A  6 A  3 A  2 A  1 A  10 A  6 A  6 A  6 A  6 A  3 A  2 A  1 A
at AC  arcing time  control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  at 230 V rated value  at 400 V rated value  at 500 V rated value  at 690 V rated value  at 24 V rated value  at 48 V rated value  at 48 V rated value  at 48 V rated value  at 110 V rated value  at 125 V rated value  at 125 V rated value  at 220 V rated value  at 600 V rated value	10 20 ms Standard A1 - A2  2  2  10 A  6 A  3 A  2 A  1 A  10 A  6 A  6 A  6 A  6 A  3 A  2 A  1 A
<ul> <li>at AC</li> <li>arcing time</li> <li>control version of the switch operating mechanism</li> <li>Auxiliary circuit</li> <li>number of NC contacts for auxiliary contacts instantaneous contact</li> <li>number of NO contacts for auxiliary contacts instantaneous contact</li> <li>operational current at AC-12 maximum</li> <li>operational current at AC-15</li> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 48 V rated value</li> <li>at 10 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> </ul>	10 20 ms Standard A1 - A2  2  10 A  6 A  3 A  2 A  1 A  10 A  6 A  6 A  3 A  2 A  1 A  10 A  6 A  1 A  10 A
<ul> <li>at AC</li> <li>arcing time</li> <li>control version of the switch operating mechanism</li> <li>Auxiliary circuit</li> <li>number of NC contacts for auxiliary contacts instantaneous contact</li> <li>number of NO contacts for auxiliary contacts instantaneous contact</li> <li>operational current at AC-12 maximum</li> <li>operational current at AC-15 <ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 690 V rated value</li> </ul> </li> <li>operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>operational current at DC-13 <ul> <li>at 24 V rated value</li> </ul> </li> </ul>	10 20 ms Standard A1 - A2  2  2  10 A  6 A  3 A  2 A  1 A  10 A  6 A  6 A  6 A  3 A  2 A  1 A  0.15 A
<ul> <li>at AC</li> <li>arcing time</li> <li>control version of the switch operating mechanism</li> <li>Auxiliary circuit</li> <li>number of NC contacts for auxiliary contacts instantaneous contact</li> <li>number of NO contacts for auxiliary contacts instantaneous contact</li> <li>operational current at AC-12 maximum</li> <li>operational current at AC-15 <ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul> </li> <li>operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> </ul> <li>operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 24 V rated value</li> </ul> </li>	10 20 ms Standard A1 - A2  2  2  10 A  6 A  3 A  2 A  1 A  10 A  6 A  6 A  6 A  3 A  2 A  1 A  0.15 A
arcing time control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value  at 48 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 220 V rated value at 24 V rated value at 25 V rated value at 26 V rated value at 27 V rated value at 28 V rated value at 29 V rated value at 20 V rated value at 48 V rated value at 600 V rated value at 600 V rated value at 48 V rated value at 60 V rated value at 60 V rated value at 60 V rated value	10 20 ms Standard A1 - A2  2  2  10 A  6 A  3 A  2 A  1 A  10 A  6 A  6 A  6 A  7 A  1 A  1 A  1 A  1 A  1 A  1 A  1
arcing time control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  at 230 V rated value  at 400 V rated value  at 690 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 110 V rated value  at 220 V rated value  at 220 V rated value  at 24 V rated value  at 24 V rated value  at 25 V rated value  at 27 V rated value  at 28 V rated value  at 29 V rated value  at 600 V rated value	10 20 ms Standard A1 - A2  2  2  10 A  6 A  3 A  2 A  1 A  10 A  6 A  6 A  6 A  6 A  7 A  1 A  1 A  1 A  1 A
arcing time  control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  at 230 V rated value at 400 V rated value at 690 V rated value at 690 V rated value  at 48 V rated value  at 48 V rated value  at 110 V rated value  at 220 V rated value  at 600 V rated value  at 110 V rated value  at 125 V rated value  at 148 V rated value  at 148 V rated value  at 140 V rated value	10 20 ms Standard A1 - A2  2  2  10 A  6 A  3 A  2 A  1 A  10 A  6 A  6 A  6 A  6 A  7 A  1 A  1 A  1 A  1 A  1 A  1 A  1

contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	65 A
at 600 V rated value	52 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	5 hp
— at 230 V rated value	10 hp
• for 3-phase AC motor	
— at 200/208 V rated value	20 hp
— at 220/230 V rated value	20 hp
— at 460/480 V rated value	50 hp
— at 575/600 V rated value	50 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
with type of coordination 1 required	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80
9F - 2. 0001 a 1. 0441104	kA)
— with type of assignment 2 required	gG: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (415V,80kA)
• for short-circuit protection of the auxiliary switch required	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
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	114 mm
width	55 mm
depth	174 mm
required spacing	
with side-by-side mounting	40
— forwards	10 mm
— upwards	10 mm
— downwards — at the side	10 mm
at the side     for grounded parts	0 mm
	10 mm
— forwards	10 mm 10 mm
— upwards — at the side	6 mm
— at the side  — downwards	
	10 mm
• for live parts	10 mm
— forwards	10 mm
— upwards — downwards	10 mm
— downwards — at the side	6 mm
— at the side  Connections/ Terminals	O IIIIII
type of electrical connection	corous typo terminals
for main current circuit     for auxiliary and control circuit	screw-type terminals
for auxiliary and control circuit     at contactor for auxiliary contacts	screw-type terminals
at contactor for auxiliary contacts     of magnet coil	Screw-type terminals
of magnet coil  type of connectable conductor cross-sections	Screw-type terminals
for main contacts	
solid or stranded	2v /1 35 mm²) 1v /1 50 mm²)
	2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²) 1x (1 35 mm²)
<ul> <li>finely stranded with core end processing</li> <li>for AWG cables for main contacts</li> </ul>	2x (1 25 mm²), 1x (1 35 mm²)
connectable conductor cross-section for main contacts	2x (18 2), 1x (18 1)
	1 35 mm²
finely stranded with core end processing     connectable conductor cross-section for auxiliary contacts	1 99 IIIII
solid or stranded	0.5 2.5 mm²
finely stranded with core end processing	0.5 2.5 mm <sup>2</sup>
- intery strainage with core one processing	0.0 £.0 IIIII

type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
<ul><li>— solid or stranded</li></ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross section	
• for main contacts	18 1
for auxiliary contacts	20 14
Safety related data	
product function	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	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	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %
B10 value with high demand rate according to SN 31920	1 000 000
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Approvals Certificates	
General Product Approval	

Constant reducer (pp. con







Confirmation



<u>KC</u>

General Product Approval

EMV

**Functional Saftey** 

**Test Certificates** 

Marine / Shipping





Type Examination Certificate

Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping











Confirmation

other

other

Railway

Dangerous goods

Environment

Confirmation

Special Test Certificate

**Transport Information** 



Environmental Confirmations

## Further information

Information on the packaging

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

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

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2037-1AG24

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2037-1AG24

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

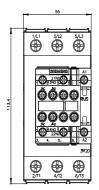
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2037-1AG24&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2037-1AG24&lang=en</a>

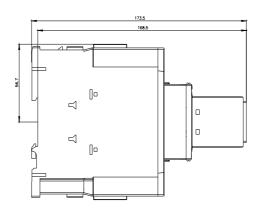
Characteristic: Tripping characteristics, I2t, Let-through current

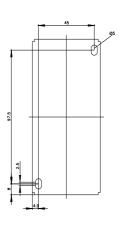
https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1AG24/char

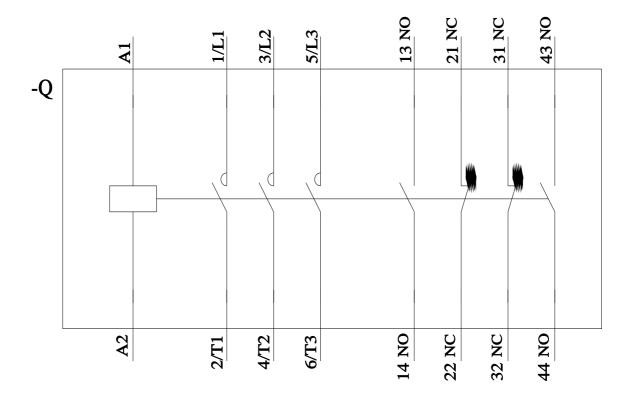
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-1AG24&objecttype=14&gridview=view1









last modified: