3RT2037-1AK60-1AA0

Data sheet



Contactor, AC-3, 30 kW / 400 V, 1 NO + 1 NC, 110 V AC, 50 Hz / 120 V, 60 Hz, 3-pole, Size S2, screw terminal Upright mounting position

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
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	11.4 W
• per pole	3.8 W
power loss [W] for rated value of the current without load current share typical	18.5 W
surge voltage resistance	
 of main circuit rated value 	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for safe isolation between coil and main contacts acc. to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	11.8g / 5 ms, 7.4g / 10 ms
shock resistance with sine pulse	
• at AC	18.5g / 5 ms, 11.6g / 10 ms
mechanical service life (switching cycles)	
 of contactor typical 	10 000 000
 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 acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.10.2014 00:00:00
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature during operation	-25 +60 °C
ambient temperature during storage	-55 +80 °C
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

operational current	
 at AC-1 at 400 V at ambient temperature 40 °C 	80 A
rated value	
• at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	80 A
— up to 690 V at ambient temperature 60 °C	70 A
rated value	
• at AC-3	
— 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	20 A
— 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 mm ²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	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 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
with 2 current paths in series at DC-1 at 24 V reted value.	EE A
— at 24 V rated value	55 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
with 3 current paths in series at DC-1 at 34 V reted value.	EE A
— at 24 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value — at 600 V rated value	2.9 A 1.4 A
operational current	1.7 \(\Delta\)
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	35 A
at 27 v rated value	

— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— 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 	
— at 24 V rated value	55 A
— at 110 V rated value	25 A
— at 220 V rated value	5 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	55 A
— 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	
 at AC-2 at 400 V rated value 	30 kW
• at AC-3	
— 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-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 kV·A
 up to 400 V for current peak value n=20 rated value 	39.4 kV·A
 up to 500 V for current peak value n=20 rated value 	49.2 kV·A
up to 690 V for current peak value n=20 rated value	56.1 kV·A
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	15.1 kV·A
 up to 400 V for current peak value n=30 rated value 	26.2 kV·A
 up to 500 V for current peak value n=30 rated value 	32.8 kV·A
up to 690 V for current peak value n=30 rated value	45.3 kV·A
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	1 055 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	730 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	520 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	336 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 60 s switching at zero current maximum	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-4 maximum	200 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	110 V
at 60 Hz rated value	120 V
operating range factor control supply voltage rated value of magnet coil at AC	
at 50 Hz	0.8 1.1
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● at 60 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
● at 50 Hz	212 V·A
● at 60 Hz	188 V·A
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	18.5 V·A
• at 60 Hz	16.5 V·A
inductive power factor with the holding power of the	10.0 V //
coil	
● at 50 Hz	0.36
● at 60 Hz	0.39
closing delay	
• at AC	10 80 ms
opening delay	10 00 me
• at AC	10 18 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
	Otanualu AT - AZ
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
number of NO contacts for auxiliary contacts	1
instantaneous contact	40.4
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	10 A
 at 400 V rated value 	3 A
● at 500 V rated value	2 A
at 690 V rated value	1 A
operational current at DC-12	
 at 24 V rated value 	10 A
 at 48 V rated value 	6 A
 at 60 V rated value 	6 A
at 110 V rated value	3 A
• at 125 V rated value	2 A
at 220 V rated value	1 A
at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	10 A
at 48 V rated value	2 A
at 60 V rated value	2 A
at 110 V rated value	1A
at 110 V rated value at 125 V rated value	0.9 A
at 125 V rated value at 220 V rated value	0.3 A
	0.3 A 0.1 A
at 600 V rated value	
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 ried value		
contact rating of auxillary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • side-by-side mounting • with side-by-side mounting • with side-by-side mounting • to minimal standard mounting real • to required spacing • with side-by-side mounting • to minimal standard mounting real • sold coverages • to minimal standard mounting real • sold coverages • to minimal standard mounting real • sold coverages • to minimal standard mounting real • sold coverages • to minimal standard mounting real • sold coverages • to minimal standard • for minim	 — at 460/480 V rated value 	50 hp
Short-circuit protection design of the fuse link		·
design of the fuse link		A600 / P600
For short-circuit protection of the main circuit		
- with type of coordination 1 required - with type of assignment 2 required - with type of assignment 2 required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - 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 space of the standard mounting swiface - standard mounting - for standard mounting - for short-circuit protection of the auxiliary switch required spacing - side-by-side mounting - for short-circuit protection of the auxiliary switch required spacing - side-by-side mounting - for symmetry - for symmetry - for grounded parts - for grounded parts - for grounded parts - for grounded parts - for main current circuit - for main current circui	· ·	
- with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required Installation/mounting/dimensions mounting position fastening method • side-by-side mounting • side-by-side mounting • with side-by-side mounting • for grounded sparts - forwards • for grounded parts - forwards • of man current direcuit • for auxiliary and control circuit • for man contacts • for man contacts • for man contacts • for side or stranded - finely stranded with core end processing • finely stranded with core end processing • for auxiliary contacts • f		
• for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting surface screw and snap-on mounting to a stream and mounting surface screw and snap-on mounting to a stream and mounting surface screw and snap-on mounting to a stream and mounting surface screw and snap-on mounting to a stream and mounting surface screw and snap-on mounting to a stream and mounting surface screw and snap-on mounting to an and surface screw and snap-on mounting to a stream and surface and mounting surface screw and snap-on mounting to a stream and mounting surface screw and snap-on mounting to and mounting surface screw and snap-on mounting to an and surface screw and snap-on mounting to an and surface screw and snap-on mounting to surface screw and snap-on mounting to a stream and surface and su	with type of coordination 1 required	
required installation/ mounting idinansions mounting position fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 side-by-side mounting ves helight 114 mm width depth required spacing with side-by-side mounting —forwards —upwards —upwards —to downwards —of orgounded parts —for grounded parts —for grounded parts —for five parts — of rowards — to the side —downwards — to mm — at the side —downwards — to mm — to five parts —for live parts —for live parts —for wards — upwards — to mm —	 with type of assignment 2 required 	T
mounting position standing, on horizontal mounting surface screw and snap-on mounting surface screw and snap-on mounting orth 35 mm standard mounting rail according to DIN EN 60715 Yes helight 114 mm width 55 mm depth 130 mm required spacing • with side-by-side mounting • with side-by-side mounting • for grounded parts 10 mm • for flive parts 10 mm • for live parts 10 mm • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • for for auxiliary and control circuit • for main current circuit • for main contacts • of magnet coil 5 crew-type terminals 5 crew-type termin	·	gG: 10 A (500 V, 1 kA)
mounting position standing, on horizontal mounting surface screw and snap-on mounting surface screw and snap-on mounting orth 35 mm standard mounting rail according to DIN EN 60715 Yes helight 114 mm width 55 mm depth 130 mm required spacing • with side-by-side mounting • with side-by-side mounting • for grounded parts 10 mm • for flive parts 10 mm • for live parts 10 mm • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • for for auxiliary and control circuit • for main current circuit • for main contacts • of magnet coil 5 crew-type terminals 5 crew-type termin	Installation/ mounting/ dimensions	
Fastening method side-by-side mounting height width depth required spacing with side-by-side mounting - forwards - upwards - downwards - of main contacts - of or main current circuit of or main current circuit - of or main current circuit - of or main current circuit - of a connectable conductor cross-sections of inely stranded with core end processing - at AWG cables for main contacts - of inely stranded with core end processing - of inely stranded - inely stranded with core end processing - solid or stranded - inely stranded - inely stranded with core end processing - solid or stranded - inely stra		standing, on horizontal mounting surface
height width		screw and snap-on mounting onto 35 mm standard mounting rail
width depth depth 130 mm required spacing with side-by-side mounting	 side-by-side mounting 	Yes
depth	height	114 mm
required spacing with side-by-side mounting - forwards - upwards - downwards - at the side of rogrounded parts - forwards - upwards - forwards - upwards - forwards - upwards - the side - for grounded parts - forwards - upwards - at the side - downwards - to file parts - forwards - upwards - for live parts - forwards - upwards - to mm - downwards - upwards - to mm - downwards - to mm - downwards - to mm - downwards - to mm - the side Connections/ Torminals type of electrical connection • for auxiliary and control circuit • for auxiliary and control circuit • for auxiliary and control circuit • for for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts • finely stranded with core end processing • finely stranded with core end processing • for auxiliary contacts • for suxiliary contacts • finely stranded with core end processing • for auxiliary contacts • for inely stranded with core end processing • for auxiliary contacts • for inely stranded with core end processing • for auxiliary contacts • for onnectable conductor cross-sections • for auxiliary contacts • for auxiliary contacts • for inely stranded with core end processing • for auxiliary contacts • for inely stranded with core end processing • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for inely stranded with core end processing • for auxiliary contacts • f	width	55 mm
with side-by-side mounting — forwards — upwards — downwards — at the side o for grounded parts — forwards — to mm — end for grounded parts — forwards — forwards — upwards — upwards — upwards — at the side — downwards — at the side — downwards — at the side — downwards — to mm — downwards — for live parts — for wards — upwards — to mm — downwards — at the side — formal current circuit — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded	depth	130 mm
forwards	required spacing	
- upwards - downwards - at the side • for grounded parts - forwards - upwards - at the side • for grounded parts - forwards - upwards - at the side - downwards • for live parts - forwards - forwards • for live parts - forwards - upwards - downwards - upwards - downwards - at the side - formards - downwards - at the side - formards - for auxiliary and control circuit - for auxiliary and control circuit - for auxiliary and control circuit - at contactor for auxiliary contacts - for main contacts - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core end processing - for auxiliary contacts - solid or stranded - finely stranded with core	 with side-by-side mounting 	
- downwards	— forwards	10 mm
- at the side • for grounded parts - forwards - upwards - at the side - downwards • for live parts - forwards - upwards • for live parts - forwards - upwards - upwards - forwards - upwards - at the side - formal connections/ Terminals type of electrical connection • for main current circuit • or auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - at AWG cables for main contacts • finely stranded with core end processing • for auxiliary contacts - solid or stranded • finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing	— upwards	10 mm
• for grounded parts	— downwards	10 mm
- forwards 10 mm 1	— at the side	0 mm
- upwards - at the side - downwards • for live parts - forwards - upwards - upwards - upwards - upwards - downwards - at the side - downwards - at the side - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • finely stranded with core end processing • for auxiliary contacts • finely stranded with core end processing • 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	 for grounded parts 	
- at the side - downwards • for live parts - forwards - forwards - upwards - downwards - at the side - formal cornections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • solid or stranded - finely stranded with core end processing • solid or stranded • finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing	— forwards	10 mm
- downwards • for live parts - forwards - upwards - upwards - downwards - at the side Connections/ Terminals type of electrical connection • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts - solid or stranded • finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing	— upwards	10 mm
• for live parts — forwards — upwards — downwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main current • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil screw-type terminals Screw-type terminals Screw-type terminals **Screw-type	— at the side	6 mm
- forwards - upwards - downwards - d the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • solid or stranded - finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing - solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing	— downwards	10 mm
- upwards - downwards - at the side Connections/ Terminals type of electrical connection	for live parts	
- downwards - at the side Connections/ Terminals type of electrical connection	— forwards	10 mm
- downwards - at the side Connections/ Torninals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded -	— upwards	10 mm
Type of electrical connection of or main current circuit of or auxiliary and control circuit of magnet coil type of connectable conductor cross-sections of main contacts of ma	·	10 mm
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of main contacts • for main contacts • for main contacts • screw-type terminals		
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • solid or stranded • finely stranded with core end processing • for auxiliary contacts - solid or stranded — finely stranded with core end processing 2x (0.5 1,5 mm²), 2x (0,75 2,5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
 for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil Screw-type terminals 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²) <li< td=""><td></td><td></td></li<>		
• for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) 2x (1 35 mm²) 1 35 mm² 2x (1 35 mm²) 2x (1 35 mm²) 2x (1 35 mm²), 2x (0,75 2,5 mm²) 2x (1 25 mm²) 2x (1 25 mm²) 2x (1 25 mm²)		screw-type terminals
 at contactor for auxiliary contacts of magnet coil Screw-type terminals type of connectable conductor cross-sections for main contacts — solid or stranded — finely stranded with core end processing at AWG cables for main contacts otnectable conductor cross-section for main contacts finely stranded with core end processing at inely stranded with core end processing finely stranded with core end processing at inely stranded with core end processing solid or stranded finely stranded with core end processing finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded for auxiliary contacts finely stranded with core end processing 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) for auxiliary contacts finely stranded with core end processing 		**
• of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded — finely stranded with core end processing 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 35 mm²) 1 35 mm² 2x (1 35 mm²)		
type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts — solid or stranded — finely stranded with core end processing 2x (1 35 mm²), 1x (1 50 mm²) 2x (18 2), 1x (18 1)		
 for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • finely stranded with core end processing • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • for auxiliary contacts • for auxiliary contacts — solid or stranded — finely stranded with core end processing 2x (1 35 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 1 35 mm² 1 35 mm² 0 .5 2.5 mm² 2 2.5 mm² 3 2.5 mm² 2 2.5 mm²		Coron type terminals
 — solid or stranded — finely stranded with core end processing ■ at AWG cables for main contacts ■ one table conductor cross-section for main contacts ■ finely stranded with core end processing ■ finely stranded with core end processing ■ solid or stranded ■ finely stranded with core end processing ■ finely stranded with core end processing ■ solid or stranded ■ finely stranded with core end processing ■ for auxiliary contacts — solid or stranded — finely stranded with core end processing 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) — finely stranded with core end processing 		
 — finely stranded with core end processing ● at AWG cables for main contacts ○ at AWG cables for main contacts ○ at AWG cables for main contacts ○ finely stranded with core end processing ○ finely stranded with core end processing ○ solid or stranded ○ finely stranded with core end processing ○ for auxiliary contacts — solid or stranded — finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²) 1 35 mm² 2x (18 2), 1x (18 1) 		2v (1 35 mm²) 1v (1 50 mm²)
 at AWG cables for main contacts 2x (18 2), 1x (18 1) connectable conductor cross-section for main contacts finely stranded with core end processing solid or stranded finely stranded with core end processing finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded for auxiliary contacts for auxiliary contacts finely stranded with core end processing 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) finely stranded with core end processing 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) 		
connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) - finely stranded with core end processing 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)		
ontacts		2^ (10 2), 1^ (10 1)
connectable conductor cross-section for auxiliary contacts	contacts	1 25 mm ²
ontacts		1 00 HIIII CC 1
 ◆ finely stranded with core end processing type of connectable conductor cross-sections ◆ for auxiliary contacts — solid or stranded — finely stranded with core end processing 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 	contacts	0.505
type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
 ◆ for auxiliary contacts — solid or stranded — finely stranded with core end processing 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 		0.5 2.5 mm²
— solid or stranded 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) — finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
— finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	-	
• at AWG cables for auxiliary contacts 2x (20 16), 2x (18 14)		
	at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)

18 ... 1 • AWG number as coded connectable conductor cross section for main contacts • AWG number as coded connectable conductor 20 ... 14 cross section for auxiliary contacts Safety related data B10 value with high demand rate acc. to SN 31920 1 000 000 proportion of dangerous failures • with low demand rate acc. to SN 31920 40 % • with high demand rate acc. to SN 31920 73 % failure rate [FIT] with low demand rate acc. to SN 31920 100 FIT product function • mirror contact acc. to IEC 60947-4-1 Yes • positively driven operation acc. to IEC 60947-5-1 No T1 value for proof test interval or service life acc. to 20 y **IEC 61508** protection class IP on the front acc. to IEC 60529 IP20

Certificates/ approvals

General Product Approval

EMC





touch protection on the front acc. to IEC 60529

suitability for use safety-related switching OFF



<u>KC</u>

finger-safe, for vertical contact from the front





Declaration of Conformity

Test Certificates

Marine / Shipping

Miscellaneous



Special Test Certificate Type Test
Certificates/Test
Report





Marine / Shipping













Confirmation

other

other

Confirmation

Further information

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2037-1AK60-1AA0}$

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

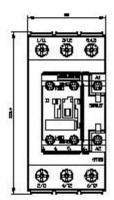
https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1AK60-1AA0

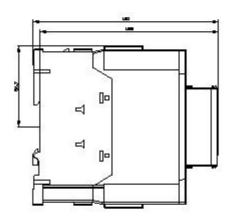
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

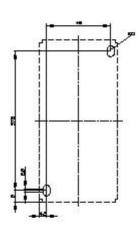
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2037-1AK60-1AA0\&lang=en}$

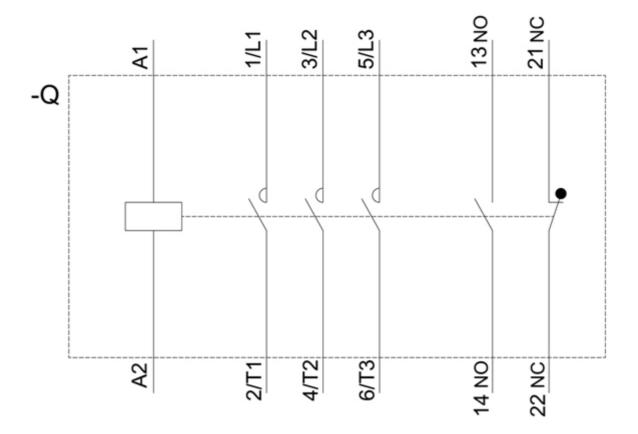
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1AK60-1AA0/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-1AK60-1AA0&objecttype=14&gridview=view1









last modified: 12/21/2020 🖸