3RT2036-1AP60-0UA0

Data sheet



Contactor, 25 hp, 460 / 575 V 220 V AC, 50 Hz / 240 V, 60 Hz, 3-pole, Size S2 screw terminal NEMA size 2

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 	12 W
 at AC in hot operating state per pole 	4 W
 without load current share typical 	18.5 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
 of main circuit rated value 	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according 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 according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2014
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-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 %

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	70 A
• at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	70 A
 up to 690 V at ambient temperature 60 °C rated value 	60 A
• at AC-3	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
• at AC-3e	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
• at AC-4 at 400 V rated value	41 A
 at AC-5a up to 690 V rated value 	61.6 A
at AC-5b up to 400 V rated value	41.5 A
• at AC-6a	
up to 230 V for current peak value n=20 rated value	43.2 A
 up to 400 V for current peak value n=20 rated value 	43.2 A
 up to 500 V for current peak value n=20 rated value 	43.2 A
 up to 690 V for current peak value n=20 rated value at AC-6a 	24 A
— up to 230 V for current peak value n=30 rated value	28.8 A
 up to 400 V for current peak value n=30 rated value 	28.8 A
 up to 500 V for current peak value n=30 rated value 	28.8 A
— up to 690 V for current peak value n=30 rated value	24 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating	25 mm ²
cycles at AC-4	
• at 400 V rated value	24 A
• at 690 V rated value	20 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	1A
— 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 rated value	55 A
— at 24 V rated value — at 110 V rated value	45 A
— at 110 V rated value — 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 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	2.9 A
— at 600 V rated value	1.4 A
at 1 current path at DC-3 at DC-5	
— at 24 V rated value	35 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1A
— 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	22 kW
• at AC-3	
— at 230 V rated value	15 kW
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	22 kW
• at AC-3e	
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	22 kW
operating power for approx. 200000 operating cycles at AC-4	
 at 400 V rated value 	12.6 kW
• at 690 V rated value	18.2 kW
operating apparent power at AC-6a	
up to 230 V for current peak value n=20 rated value	17.2 kVA
• up to 400 V for current peak value n=20 rated value	29.9 kVA
• up to 500 V for current peak value n=20 rated value	37.4 kVA
• up to 690 V for current peak value n=20 rated value	28.6 kVA
operating apparent power at AC-6a	
up to 230 V for current peak value n=30 rated value	11.4 kVA
·	
• up to 400 V for current peak value n=30 rated value	19.9 kVA
• up to 500 V for current peak value n=30 rated value	24.9 kVA
up to 690 V for current peak value n=30 rated value	28.6 kVA
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	937 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	697 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	468 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	282 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	229 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	1 000 1/h
• at AC-2 maximum	600 1/h
• at AC-3 maximum	800 1/h
 at ΔC=3 maximum 	800.170

at AC 2a mayi	000 4 //ь		
• at AC-3e maximum	800 1/h		
• at AC-4 maximum	250 1/h		
Control circuit/ Control			
type of voltage of the control supply voltage	AC		
control supply voltage at AC			
 at 50 Hz rated value 	220 V		
at 60 Hz rated value	240 V		
operating range factor control supply voltage rated			
value of magnet coil at AC	0.0 4.4		
• at 50 Hz	0.8 1.1		
• at 60 Hz	0.8 1.1		
apparent pick-up power of magnet coil at AC	040.44		
• at 50 Hz	212 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	18.5 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		
arcing time	10 20 ms		
control version of the switch operating mechanism	Standard A1 - A2		
Auxiliary circuit			
number of NC contacts for auxiliary contacts instantaneous contact	1		
number of NO contacts for auxiliary contacts instantaneous contact	1		
operational current at AC-12 maximum	10 A		
operational current at AC-15			
 at 230 V rated value 	10 A		
 at 400 V rated value 	3 A		
 at 500 V rated value 	2 A		
• at 690 V rated value	1 A		
operational current at DC-12			
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	1 A		
at 125 V rated value	0.9 A		
at 123 V rated value at 220 V rated value	0.3 A		
at 600 V rated value	0.1 A		
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)		
	ridaity switching per 100 million (17 V, 1 m/)		
UL/CSA ratings			
full-load current (FLA) for 3-phase AC motor			
 at 480 V rated value 	52 A		

variety of the single-phase AC motor	a at 600 V rated walve	F2 A		
• for single-phase AC motor — at 120 V raided value — at 220 200 V raised value — at 4200 200 V raised value — at 579500 V raised value — with type of auxiliary contacts according to UL Short-cruit protection design of the fuse link — with type of coordination 1 required • for short-cruit protection of the main circuit — with type of assignment 2 required • for short-cruit protection of the auxiliary switch required • for short-cruit protection of the auxiliary switch required • for short-cruit protection of the auxiliary switch required • for short-cruit protection of the auxiliary switch required • for short-cruit protection of the auxiliary switch required • for short-cruit protection of the auxiliary switch required • for short-cruit protection of the auxiliary switch required • for short-cruit protection of the auxiliary switch required • for short-cruit protection of the auxiliary switch required • side-by-side mounting - forward and backward by 4-2.2.0 on writical mounting surface. can be tilled forward and backward by 4-2.2.0 on writical mounting surface. * screw and sanep-on mounting and backward by 4-2.2.0 on writical mounting surface. * screw and sanep-on mounting and backward by 4-2.2.0 on writical mounting surface. * screw and sanep-on mounting and backward by 4-2.2.0 on writical mounting surface. * screw and sanep-on mounting and backward by 4-2.2.0 on writical mounting surface. * screw and sanep-on mounting and backward by 4-2.2.0 on writical mounting surface. * screw and sanep-on mounting and backward by 4-2.2.0 on writical mounting surface. * screw and sanep-on mountin	at 600 V rated value	52 A		
at 10/120 V rated value 7.5 hp 7.5				
at 230 V rated value for 3- phase AC motor at 200/208 V rated value at 420/208 V rated value at 575/600 V rated value with type of one signment 2 required with type of osordination 1 required with type of assignment 2 required side-by-side mounting position with type of assignment 2 required side-by-side mounting side-by-side mounting with type of assignment 2 required s	3 1			
• for 3-phase AC motor — at 220/230 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575000 V rated value — with type of coordination 1 required — of the auxiliary switch required festoning method — side-by-side mounting — side-by-side mounting — side-by-side mounting — with side-by-side mounting — of the side — downwards — of the side — of		3 hp		
		7.5 hp		
at 220/230 V rated value 25 hp 25 hp 26 months of the second of the s	 for 3-phase AC motor 			
al 480-480 V rated value 25 hp 25	— at 200/208 V rated value	10 hp		
— at 575/600 V rated value contact rating of auxiliary 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 • or short-circuit protection of the main circuit — 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 • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the main circuit • with type of auxiliary contacts • for auxiliary contacts • for main current circuit • for formin contacts • for fine past standard with core and processing • at AWG cables for main contacts • formentable conductor cross-section for main contacts • formentable conductor cross-section for main contacts • forlow stranded • for fine past standard with core end processing • AWG cables for main contacts • forlow stranded • forlow s	 — at 220/230 V rated value 	15 hp		
contact rating of auxiliary contacts according to UL Short-circuit protoction design of the fuse link • for short-circuit protoction of the main circuit — with type of coordination 1 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • 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 sold (500 V, 100 kA), aMi. 80 A (690 V, 100 kA), aMi. 80 A (6	 at 460/480 V rated value 	25 hp		
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • 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 main circuit — with type of short-circuit protection of the auxiliary switch required • for side-by-side mounting • forwards — upwards — of onwards — at the side — of ony conded parts — forwards — upwards • for live parts — forwards — of onwards • for wards • for wards • for wards — upwards • for wards — the side — downwards • for wards — the side — downwards • for main current circuit • for auxiliary contacts • for main current circuit • for auxiliary and control circuit • of or auxiliary and control circuit • for faciliary and control circuit • for main contacts — solid or stranded — finely stranded with core end processing • finely stranded with core end processi	— at 575/600 V rated value	25 hp		
design of the fuse link	contact rating of auxiliary contacts according to UL	A600 / P600		
• 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 • 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 • 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 • 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 • 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	Short-circuit protection			
with type of coordination 1 required with type of assignment 2 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required for short-circuit strain protection of the auxiliary switch required for short-circuit screw and snap-on mounting surface. can be titled forward and backward by +/- 22.5° on vertical mounting surface can be titled forward and backward by +/- 22.5° on vertical mounting surface. can be titled forward and backward by +/- 22.5° on vertical mounting surface can be titled forward and backward by +/- 22.5° on vertical mounting surface. can be titled forward and backward by +/- 22.5° on vertical mounting surface. can be titled forward and backward by +/- 22.5° on vertical mounting surface. can be titled forward and backward by +/- 22.5° on vertical mounting surface. can be titled forward and backward by +/- 22.5° on vertical mounting surface. can be titled forward and backward by +/- 22.5° on vertical mounting surface. can be titled forward and backward by +/- 22.5° on vertical mounting surface. can be titled forward and backward by +/- 22.5° on vertical mounting surface. can be titled forward and backward by +/- 22.5° on vertical mounting surface. can be titled forward and backward by +/- 22.5° on vertical mounting surface. can be titled forward and backward by +/- 22.5° on vertical mounting surface. can be titled forward and backward by +/- 22.5° on vertical mounting surface. can be titled forward and backward by +/- 22.5° on vertical mounting surface. can be titled forward and backward by +/- 22.5° on vertical mounting surface. can be titled forward and backward by +/- 22.5° on vertical mounting surface. can be ti	design of the fuse link			
- with type of assignment 2 required • for short-circuit protection of the auxiliary switch • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch mounting position ***H-180" rotation possible on vertical mounting surface; can be tilled forward and backward by +-2.25" on vertical mounting surface; serve and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 **side-by-side mounting **exew and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 **side-by-side mounting - forwards - downwards - downwards - at the side - forwards - at the side - downwards - at the side - downwards - forwards - formards - forwards - formals - forwards - formal control circuit - for auxiliary and control circuit - formal contacts - solid of stranded - finely stranded with core end processing - at AVIS cables for main contacts - finely stranded with core end processing - at AVIS cables for main contacts - finely stranded with core end processing - at AVIS cables for main contacts - finely stranded with core end processing	 for short-circuit protection of the main circuit 			
Note	— with type of coordination 1 required			
Note Proceedings	 — with type of assignment 2 required 			
mounting position ##-180" rotation possible on vertical mounting surface; can be tilted forward and backward by 4- 22.5" on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 ##-180" rotation possible on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 ##-180" rotation possible on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 ##-180" rotation possible on vertical mounting surface; can be tilted forward by 4- 22.5" on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting surface screw and snap-on mounting onto 35 mm standard mounting surface; can be tilted forwards and snap-on mounting onto 35 mm standard mounting surface screw and snap-on mounting onto 35 mm standard mounting surface; can be tilted forwards and snap-on mounting out of 35 mm standard mounting surface; can be tilted forward and snap-on mounting out of 35 mm standard mounting surface; can be tilted forward snap-on mounting out of 35 mm standard mounting surface; can be tilted forward snap-on mounting out of 35 mm standard mounting surface; can be tilted forward snap-on mounting out of 35 mm standard mounting surface screw and snap-on mounting out of 35 mm standard mounting surface screw and snap-on mounting out of 35 mm standard mounting surface screw and snap-on mounting out of 35 mm standard mounting screw and snap-on mounting out of 35 mm standard mounting screw and snap-on mounting of 30 mm standard mounting screw and snap-on mounting out of 35 mm standard mounting screw and snap-on mounting out of 30 mm standard mounting screw and snap-on mounting out of 30 mm standard mounting screw and snap-on mounting out of 30 mm standard mounting screw and snap-on mounting out of 30 mm standard mounting screw and snap-on mounting of 30 mm standard mounting screw and snap-on mounting of 30 mm standard mounting screw and snap-on mounti	 for short-circuit protection of the auxiliary switch 			
#/-1807 rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting not 35 mm standard mounting rail according to DIN EN 60715 **side-by-side mounting** **height**	·			
forward and backward by +f- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes height	· ·	1/ 100° rotation possible on vertical mounting surfaces and he tills I		
e side-by-side mounting Pes height width depth 114 mm frequired spacing e with side-by-side mounting — forwards — upwards — downwards — of or grounded parts — forwards — at the side — downwards — to mm — to m		forward and backward by +/- 22.5° on vertical mounting surface		
height width	-	according to DIN EN 60715		
width depth 130 mm required spacing • with side-by-side mounting — forwards 10 mm — downwards 10 mm — at the side 0 mm • for grounded parts — forwards 10 mm — at the side 6 mm — upwards 10 mm — at the side 6 mm — at the side 6 mm — at the side 6 mm — downwards 10 mm — at the side 6 mm — at the side 6 mm — downwards 10 mm • for live parts — forwards 10 mm • for mive parts — forwards 10 mm — at the side 6 mm Connections/ Terminals type of electrical connection • for auxiliary and control circuit screw-type terminals • of magnet coil screw-type terminals type of connectable conductor cross-sections • for mian contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing • finel				
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — rowards — upwards — upwards — of main current circuit • at contactor for auxiliary contacts • of magnet coil • of or main contacts — sould conductor cross-section of main contacts — sould conductor cross-section for auxiliary contacts • finely stranded with core end processing • finely stran				
required spacing with side-by-side mounting forwards upwards downwards at the side forwards forwards forwards forwards forwards forwards forwards forwards forwards upwards upwards at the side downwards at the side downwards at the side downwards forwards forwards forwards forwards forwards forwards forwards forwards forwards upwards downwards upwards downwards downwards at the side forwards forwards forwards forwards forwards forwards for upwards for auxiliary and control circuit for auxiliary and	width	55 mm		
 with side-by-side mounting forwards upwards domm downwards 10 mm at the side 0 mm for grounded parts for grounded parts for wards upwards at the side 6 mm downwards 10 mm at the side 6 mm downwards 10 mm for live parts forwards upwards upwards downwards 10 mm downwards 10 mm for man current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil screw-type terminals type of connectable conductor cross-sections for main current for main contacts gononectable for main contacts for main contacts finely stranded with core end processing at AWG cables for main contacts finely stranded with core end processing at AWG cables for main contacts finely stranded with core end processing at AWG cables for main contacts finely stranded with core end processing at AWG cables for main contacts finely stranded with core end processing at AWG cables for main contacts finely stranded with core end processing finely stranded with	depth	130 mm		
forwards	required spacing			
- upwards - downwards - at the side of or grounded parts - forwards - upwards - upwards - upwards - upwards - at the side - downwards - at the side - downwards - for live parts - forwards - for live parts - forwards - upwards - for live parts - forwards - upwards - downwards - downwards - downwards - at the side - form and contaction - for main contacts - solid or stranded - 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 main contacts - finely stranded with core end processing - finely stranded with core end pro	with side-by-side mounting			
- downwards - at the side • for grounded parts - forwards - upwards - at the side - downwards - at the side - downwards - at the side - downwards - for live parts - forwards - upwards - for wards - upwards - for wards - upwards - downwards - at the side - downwards - at the side - downwards - at the side - for main current circuit - for auxiliary and control circuit - for auxiliary and control circuit - of magnet coil type of connectable conductor cross-sections - formain current - 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 main contacts - finely stranded with core end processing - connectable conductor cross-section for main contacts - finely stranded with core end processing - connectable conductor cross-section for main contacts - finely stranded with core end processing - at AWG cables for main contacts - finely stranded with core end processing - at AWG cables for main contacts - finely stranded with core end processing - at AWG cables for main contacts - finely stranded with core end processing - connectable conductor cross-section for main contacts - finely stranded with core end processing - connectable conductor cross-section for auxiliary contacts - finely stranded with core end processing - connectable conductor cross-section for auxiliary contacts - finely stranded with core end processing - connectable conductor cross-section for auxiliary contacts	— forwards	10 mm		
- at the side • for grounded parts - forwards - upwards - at the side - downwards • for live parts - forwards - upwards - forwards - torwards - forwards - forwards - upwards - upwards - upwards - downwards - at the side - downwards - upwards - upwards - at the side - formals Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control 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 • at Connectable conductor cross-section for main contacts • finely stranded with core end processing • finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing	— upwards	10 mm		
• for grounded parts — forwards — upwards — at the side — downwards — 10 mm • for live parts — forwards — 10 mm • for live parts — forwards — upwards — upwards — downwards — 10 mm — downwards — 10 mm — at the side — 6 mm Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid 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	— downwards	10 mm		
forwards	— at the side	0 mm		
- upwards - at the side - downwards 10 mm • for live parts - forwards - upwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit • 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 grounded parts 			
- at the side - downwards - downwards - for live parts - forwards - upwards - upwards - downwards - at the side - downwards - downwards - at the side - domnections/ 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 finely stranded with core end pro	— forwards	10 mm		
- downwards • 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 contacts - solid or stranded - finely stranded with core end processing • finely connectable conductor cross-section for auxiliary contacts	— upwards	10 mm		
for live parts — forwards — upwards — downwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxilliary and control circuit • at contactor for auxilliary 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 • finel	— at the side	6 mm		
forwards	— downwards	10 mm		
forwards 10 mm upwards 10 mm downwards 10 mm at the side 6 mm Connections/ Terminals type of electrical connection for main current circuit screw-type terminals at contactor for auxiliary contacts at contactor for auxiliary contacts of magnet coil screw-type terminals type of connectable conductor cross-sections finely stranded with core end processing at AWG cables for main contacts finely stranded with core end processing finely stranded with core end proce	● for live parts			
- 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 • at AWG cables for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely conductor cross-section for auxiliary contacts		10 mm		
- 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 • at AWG cables for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely conductor cross-section for auxiliary contacts				
- at the side Connections/ Terminals type of electrical connection • for main current circuit 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 connectable conductor cross-section for main contacts • finely stranded with core end processing	•			
type of electrical connection				
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 • finely stranded with core end processing • at AWG connectable conductor cross-section for main contacts • finely stranded with core end processing • at AWG connectable conductor cross-section for main contacts • finely stranded with core end processing 1 35 mm² connectable conductor cross-section for auxiliary contacts				
 for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil Screw-type terminals of magnet coil Screw-type terminals for main contacts solid or stranded finely stranded with core end processing at AWG cables for main contacts at AWG cables for main contacts finely stranded with core end processing at AWG cables for main contacts finely stranded with core end processing at AWG connectable conductor cross-section for main contacts finely stranded with core end processing at 35 mm² connectable conductor cross-section for auxiliary contacts 				
 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 at AWG cables for main contacts finely stranded with core end processing at AWG cables for main contacts finely stranded with core end processing at AWG cables for main contacts finely stranded with core end processing finely stranded with core end processing at 35 mm² 		serow typo terminals		
 at contactor for auxiliary contacts of magnet coil Screw-type terminals 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 o at AWG cables for main contacts finely stranded with core end processing of inely stranded with core end processing of inely stranded with core end processing of inely stranded with core end processing onnectable conductor cross-section 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 ○ at AWG cables for main contacts ○ finely stranded with core end processing ○ finely stranded with core end processing ○ finely stranded with core end processing 1 35 mm² connectable conductor cross-section for auxiliary contacts 	-			
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 main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing • finely stranded with core end processing • connectable conductor cross-section for auxiliary contacts • for main contacts • finely stranded with core end processing • finely stranded with core auxiliary contacts • finely stranded with core end processing • finely		Screw-type terminals		
 — 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 				
 — finely stranded with core end processing at AWG cables for main contacts 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) connectable conductor cross-section for main contacts finely stranded with core end processing 1 35 mm² connectable conductor cross-section for auxiliary contacts 				
 ◆ 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 connectable conductor cross-section for auxiliary contacts 				
connectable conductor cross-section for main contacts ● finely stranded with core end processing connectable conductor cross-section for auxiliary contacts 1 35 mm²				
contacts	at AWG cables for main contacts	2x (18 2), 1x (18 1)		
connectable conductor cross-section for auxiliary contacts				
contacts	finely stranded with core end processing	1 35 mm²		
	connectable conductor cross-section for auxiliary			
• solid or stranded 0.5 2.5 mm ²				
	 solid or stranded 	0.5 2.5 mm ²		

 finely stranded with core end processing 	0.5 2.5 mm²	
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)	
 at AWG cables for auxiliary contacts 	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		
 mirror contact according to IEC 60947-4-1 	Yes	
 positively driven operation according to IEC 60947- 5-1 	No	
B10 value with high demand rate according to SN 31920	1 000 000	
proportion of dangerous failures		
 with low demand rate according to SN 31920 	40 %	
with high demand rate according to SN 31920	73 %	
failure rate [FIT] with low demand rate according to SN 31920	100 FIT	
T1 value for proof test interval or service life according to IEC 61508	20 y	
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	
suitability for use		
 safety-related switching OFF 	Yes	
Certificates/ approvals		



General Product Approval

Confirmation



<u>KC</u>





EMC

Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates		Marine / Shipping
Type Examination Certificate	C € _{EG-Konf.}	Type Test Certificates/Test Report	Special Test Certificate	ABS

Marine / Shipping













other	Railway	Dangerous Good

 $\begin{tabular}{lll} {\bf Confirmation} & {\bf Vibration \ and \ Shock} & {\bf Transport \ Information} \\ & {\bf tion} \\ \end{tabular}$

Further information

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2036-1AP60-0UA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2036-1AP60-0UA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1AP60-0UA0

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

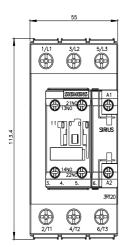
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2036-1AP60-0UA0&lang=en

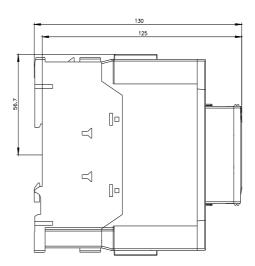
Characteristic: Tripping characteristics, I2t, Let-through current

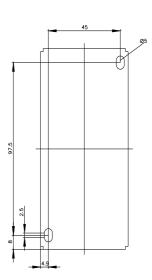
https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1AP60-0UA0/char

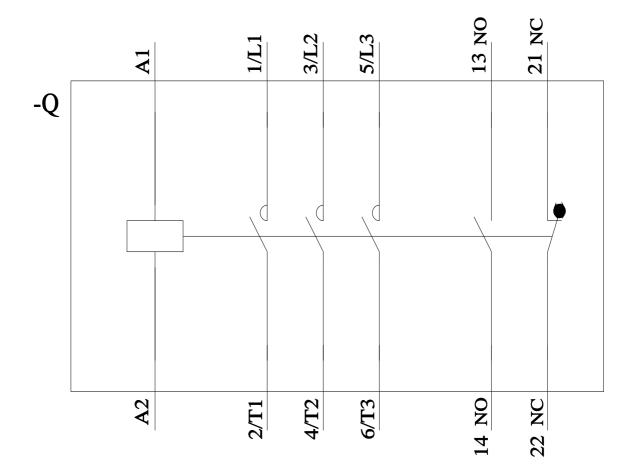
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2036-1AP60-0UA0&objecttype=14&gridview=view1









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