SIEMENS

Data sheet 3RT2036-3AL20



power contactor, AC-3e/AC-3, 51 A, 22 kW / 400 V, 3-pole, 230 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, main circuit: screw terminal, control and auxiliary circuit: spring-loaded terminal, size: S2

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	17.2 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 protective separation 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 (operating 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 	70 A
value	
• 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	60 A
value	
• 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	24 A
• at AC-6a	
— 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	25 mm²
operational current for approx. 200000 operating cycles at	
AC-4	24.0
• at 400 V rated value	24 A
at 690 V rated value	20 A
operational current	
at 1 current path at DC-1 at 0.4 Verta during	55.4
— 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
with 2 current paths in series at DC-1 at 24 Verted value.	EE A
— 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
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	

-t 04 \ /tdl	OF A
— at 24 V rated value	35 A
— at 60 V rated value	6 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 60 V rated value	45 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 60 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-	EE KII
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
·	29.9 kVA
• up to 400 V for current peak value n=20 rated value	
 up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value 	29.9 kVA 37.4 kVA
• up to 400 V for current peak value n=20 rated value	29.9 kVA
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a	29.9 kVA 37.4 kVA 28.6 kVA
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up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to	29.9 kVA 37.4 kVA 28.6 kVA 11.4 kVA 19.9 kVA 24.9 kVA 28.6 kVA
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up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C Ilimited to 1 s switching at zero current maximum Ilimited to 5 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum no-load switching frequency at AC-1 maximum at AC-2 maximum	29.9 kVA 37.4 kVA 28.6 kVA 11.4 kVA 19.9 kVA 24.9 kVA 28.6 kVA 937 A; Use minimum cross-section acc. to AC-1 rated value 697 A; Use minimum cross-section acc. to AC-1 rated value 468 A; Use minimum cross-section acc. to AC-1 rated value 282 A; Use minimum cross-section acc. to AC-1 rated value 229 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 1 000 1/h 600 1/h
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control supply voltage at AC	
at 50 Hz rated value	230 V
at 60 Hz rated value	230 V
operating range factor control supply voltage rated value of 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
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 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)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	52 A
 at 600 V rated value 	52 A
	52 A
yielded mechanical performance [hp]	52 A
yielded mechanical performance [hp] • for single-phase AC motor	
yielded mechanical performance [hp]	3 hp 10 hp

design of the fuse link		
	• for 3-phase AC motor	
at 450480 V rated value 40 pp 4757800 V rated value 50 pp 5000 P P800 P	— at 200/208 V rated value	15 hp
	— at 220/230 V rated value	15 hp
ABBO / PROD Starts started in protection	— at 460/480 V rated value	40 hp
Stort activated protection	— at 575/600 V rated value	50 hp
design of the fuse link • for short-circuit protection of the main circuit — with type of ocordination 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 • side-by-side mounting • side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • for wards • at the side • for grounded parts — forwards • for grounded parts — forwards • for grounded parts — forwards • for invariant • for invariant • for invariant • for invariant • for main current circuit • for auxiliary contacts • side-by-side mounting • finely stranded with core end processing • for auxiliary contacts • side or stranded • finely stranded with core end processing • for auxiliary contacts • side or stranded • finely stranded with core end processing • for auxiliary contacts • side or stranded • finely stranded with core end processing • for auxiliary contacts • side or stranded • finely stranded with core end processing • finely stranded with core end processing • for AWC access for auxiliary contacts • core auxiliary contacts • for auxiliary contacts • side or stranded • finely stranded with core end processing • for AWC accessing or stranded • for forwards or stran	contact rating of auxiliary contacts according to UL	A600 / P600
For short-circuit protection of the main circuit	Short-circuit protection	
- with type of coordination 1 required	design of the fuse link	
with type of assignment 2 required	 for short-circuit protection of the main circuit 	
**Cor short-circuit protection of the auxiliary switch required mounting outling dimensions wounting possible on vertical mounting surface; can be tilted forward and backward by ½-22.5° en vertical mounting surface; can be tilted forward and backward by ½-22.5° en vertical mounting surface; can be tilted forward and backward by ½-22.5° en vertical mounting surface; can be tilted forward and backward by ½-22.5° en vertical mounting surface; can be tilted forward and backward by ½-22.5° en vertical mounting surface; can be tilted forward and backward by ½-22.5° en vertical mounting surface; can be tilted forward and backward by ½-22.5° en vertical mounting surface; can be tilted forward and backward by ½-22.5° en vertical mounting surface; can be tilted forward and backward by ½-22.5° en vertical mounting surface; can be tilted forward and backward by ½-22.5° en vertical mounting surface; can be tilted forward and backward by ½-22.5° en vertical mounting surface; can be tilted forward and backward by ½-22.5° en vertical mounting surface; can be tilted forward and backward by ½-22.5° en vertical mounting surface; can be tilted forward and backward by ½-22.5° en vertical mounting surface; can be tilted forward and backward by ½-22.5° en vertical mounting surface; can be tilted forward and backward by ½-22.5° en vertical mounting surface; can be tilted forward and backward by ½-22.5° en vertical mounting surface; can be tilted forward and backward by ½-22.5° en vertical mounting surface; can be tilted forward and backward by 2.5° en wertical mounting surface; can be tilted forward and backward by end of an and surface. 1 0 mm 2 (of maxiliary and corntol circuit screen and connection and conn	— with type of coordination 1 required	
Installation mounting differentions mounting position #4-180" rotation possible on vertical mounting surface; can be titled forward and belokward by 14-22.5° on vertical mounting surface; can be titled forward and belokward by 14-22.5° on vertical mounting surface; can be titled forward and belokward by 14-22.5° on vertical mounting surface; can be titled forward and belokward by 14-22.5° on vertical mounting surface; can be titled forward and belokward by 14-22.5° on vertical mounting surface; can be titled forward and belokward by 14-22.5° on vertical mounting surface; can be titled forward and belokward by 14-22.5° on vertical mounting surface; can be titled forward and belokward by 14-22.5° on vertical mounting surface; can be titled forward and belokward by 14-22.5° on vertical mounting surface; can be titled forward and belokward by 14-22.5° on vertical mounting surface; can be titled forward and belokward by 14-22.5° on vertical mounting surface; can be titled forward and belokward by 14-22.5° on vertical mounting surface; can be titled forward and belokward by 14-22.5° on vertical mounting surface; can be titled forward and belokward by 14-22.5° on vertical mounting surface; can be titled forward and belokward by 14-22.5° on vertical mounting surface; can be titled forward and belokward by 14-22.5° on vertical mounting surface; can be titled forward and belokward by 14-12.50 mm - forwards - forwards	 — with type of assignment 2 required 	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)
### ### ### ### ### ### ### ### ### ##	for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
Sakeward by + 22.5° to nevirical mounting surface * side-by-side mounting Yes	Installation/ mounting/ dimensions	
height Yes height 114 mm with 55 mm depth 130 mm required spacing Female e with side-by-side mounting 10 mm — forwards 10 mm — downwards 10 mm — downwards 10 mm — forwards 10 mm — forwards 10 mm — the side 6 mm — at the side 6 mm — at the side 6 mm — forwards 10 mm — forwards 10 mm — forwards 10 mm — at the side 6 mm — forwards 10 mm — formards 10 mm — forwards 20 mm — for avaliary and control creatt <t< td=""><td>mounting position</td><td></td></t<>	mounting position	
width 55 mm doth 130 mm required spacing ************************************	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
width 55 mm depth 130 mm required spacing • with side-by-side mounting — forwards 10 mm — upwards 10 mm — downwards 10 mm — at the side • for grounded parts — forwards 10 mm — upwards 10 mm — downwards 10 mm — for live parts • for live parts — for wards 10 mm — downwards 10 mm — downwards 10 mm — downwards 10 mm — at the side 6 mm Connectable connection screw-byse terminals • for auxiliary and control circuit screw-byse terminals • for auxiliary and control circuit spring-type terminals • for auxiliary contacts spring-type terminals • for auxiliary contacts spring-type terminals • for all yestranded with core end proce	side-by-side mounting	Yes
depth 130 mm required spacing ************************************	height	114 mm
required spacing • with side-by-side mounting - forwards - upwards - downwards - at the side - forgrounded parts - forwards - upwards - forwards - for walliary and control circuit - for auxiliary contacts - solid or stranded - finely stranded with core end processing - finely stranded with core end processing - finely stranded without core end processing - finely stranded with core end processing - finely st	width	55 mm
	depth	130 mm
forwards upwards upward	required spacing	
- upwards	with side-by-side mounting	
- downwards - at the side • for grounded parts - forwards - upwards - at the side • downwards - upwards - at the side - downwards • for live parts - forwards • for live parts - forwards - upwards - downwards - at the side - downwards - downwards - to mm - at the side - downwards - downwards - downwards - downwards - for main current circuit • for main current circuit • for auxillary and control circuit • for auxillary and control circuit • for auxillary 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 • finely stranded with core end processing - finely stranded without conductor cross-sections - for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - finely stranded with core end processing - finely stranded with core end processing - finely str	— forwards	10 mm
• for grounded parts - forwards - upwards - at the side - downwards - to forwards - downwards - forwards - upwards - upwards - downwards - upwards - downwards - downwards - downwards - downwards - downwards - downwards - domnactors - downwards - for main current circuit - for auxiliary and control circuit - for auxiliary contacts - finely stranded with core end processing - for AWG cables for auxiliary contacts - for AWG cables for auxiliary contacts - for AWG cables for auxiliary contacts - for AWG number as coded connectable conductor cross-section section	— upwards	10 mm
• for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — to for live parts — upwards — downwards — 10 mm — downwards — at the side — 6 mm Connections/ Torminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts • for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts — solid or stranded — finely stranded without core end processing • for auxiliary contacts — finely stranded without core end processing • for auxiliary contacts — solid or stranded — finely stranded without core end processing — for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section	— downwards	10 mm
- forwards - upwards - 10 mm -	— at the side	0 mm
- forwards - upwards - 10 mm -	for grounded parts	
- at the side		10 mm
- at the side		
- downwards • for live parts - forwards - upwards - upwards - downwards - at the side - for main current circuit - for auxiliary and control circuit - at contactor for auxiliary contacts - of magnet coil - type of electrical connection - for main current circuit - of auxiliary and control circuit - of auxiliary and control circuit - of magnet coil - of megnet coil - of	•	
• for live parts — forwards — upwards — downwards — at the side 6 mm 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 • finely stranded with core end processing connectable conductor cross-sections • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts — solid or stranded — finely stranded without core end processing • for auxiliary contacts — solid or stranded — finely stranded without core end processing • for auxiliary contacts — solid or stranded — finely stranded without core end processing • for AWG cables for auxiliary contacts 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)		
- forwards 10 mm 1		10 111111
- upwards - 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-section for main contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts - solid or stranded • for auxiliary contacts - solid or stranded • 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 AWG cables for auxiliary contacts • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section	•	10 mm
- downwards - at the side - at connections/Terminals type of electrical connection • for auxiliary and control circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil - at contactor for auxiliary contacts • solid or stranded • finely stranded with core end processing - at 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 - finely stranded with core end processing - finely stranded without core end processing - solid or stranded • finely stranded without core end processing - solid or stranded - finely stranded without 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 without core end processing - finely stranded without core end processing - for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section		
The side 6 mm Connections/ Terminals type of electrical connection • for main current circuit spring-loaded terminals • at contactor for auxiliary contacts • of magnet coil Spring-type terminals • solid or stranded • finely stranded with core end processing • finely stranded without 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 - finely stranded with core e	·	
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 without core end processing • finely stranded without core end processing • finely stranded without 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 AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section		
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 without core end processing • finely stranded without core end processing • for auxiliary contacts • solid or stranded • for auxiliary contacts • solid or stranded • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for or stranded with core end processing • for auxiliary contacts		6 111111
• 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 without core end processing • finely stranded without core end processing • for auxiliary contacts • solid or stranded • finely stranded without core end processing • for auxiliary contacts • for auxiliary		
 for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil Spring-type terminals 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 finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing 0.5 2.5 mm² finely stranded without core end processing of or auxiliary contacts solid or stranded for auxiliary contacts solid or stranded for auxiliary contacts for AWG cables for auxiliary contacts for AWG cables for auxiliary contacts for AWG number as coded connectable conductor cross section 		
 at contactor for auxiliary contacts of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 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 o.5 2.5 mm² type of connectable conductor cross-sections for auxiliary contacts solid or stranded for auxiliary contacts rosolid or stranded 2x (0.5 2.5 mm²) type of connectable conductor cross-sections for auxiliary contacts for AWG cables for auxiliary contacts at (0.5 2.5 mm²) for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section		· · · · · · · · · · · · · · · · · · ·
type of connectable conductor cross-sections for main contacts	•	
type of connectable conductor cross-sections for main contacts • solid or stranded • solid or 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 • solid or stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - finely stranded with core end processing - finely stranded with core end processing - finely stranded without core end processing - solid or stranded - solid or s	•	
 solid or stranded finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²) 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 finely stranded without core end processing finely stranded without core end processing for auxiliary contacts solid or stranded for auxiliary contacts for auxiliary contacts finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing for AWG cables for auxiliary contacts at (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 4x (0.5 2.5 mm²)<!--</td--><td></td><td>Spring-type terminals</td>		Spring-type terminals
 finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²) connectable conductor cross-section for main contacts finely stranded with core end processing solid or stranded finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing for auxiliary contacts solid or stranded for auxiliary contacts finely stranded with core end processing finely stranded without core end processing for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section 	· ·	
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 • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing 2x (0.5 2.5 mm²) — finely stranded with core end processing 2x (0.5 2.5 mm²) — finely stranded without core end processing 2x (0.5 2.5 mm²) • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section		
• finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded with core end processing — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing — finely stranded without core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section		2x (1 25 mm²), 1x (1 35 mm²)
connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing 2x (0.5 2.5 mm²) - finely stranded with core end processing — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section		
 solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing for AWG cables for auxiliary contacts 4x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 4x (finely stranded with core end processing	1 35 mm²
 finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded without core end processing for AWG cables for auxiliary contacts 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 4x (0.5 2.5 mm²) 5x (0.5 2.5 mm²) 6x (0.5 2.5 mm²) 6x	connectable conductor cross-section for auxiliary contacts	
 ◆ finely stranded without core end processing type of connectable conductor cross-sections ◆ for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section 	 solid or stranded 	
type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section	 finely stranded with core end processing 	
 for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section 		0.5 2.5 mm²
 — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (20 14)		
 — finely stranded with core end processing — finely stranded without core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section 2x (0.5 1.5 mm²) 2x (20 14)	for auxiliary contacts	
— finely stranded without core end processing of or AWG cables for auxiliary contacts 2x (0.5 2.5 mm²) 2x (20 14) AWG number as coded connectable conductor cross section	— solid or stranded	2x (0.5 2.5 mm²)
• for AWG cables for auxiliary contacts 2x (20 14) AWG number as coded connectable conductor cross section	 finely stranded with core end processing 	2x (0.5 1.5 mm²)
AWG number as coded connectable conductor cross section	 finely stranded without core end processing 	2x (0.5 2.5 mm²)
section	 for AWG cables for auxiliary contacts 	2x (20 14)
• for main contacts 18 1		
	• 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 a
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
Cortificatos/approvals	

Certificates/ approvals

General Product Approval



Confirmation





<u>KC</u>



Functional

EMC Safety/Safety of Machinery Declaration of Conformity Test Certificates



Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













Marine / Shipping other Railway Dangerous Good Environment



Confirmation

Confirmation

Vibration and Shock

Transport Information

Environmental Confirmations

Further information

Siemens has decided to exit the Russian market (see here).

 $\underline{\text{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}}$

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

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

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2036-3AL20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2036-3AL20

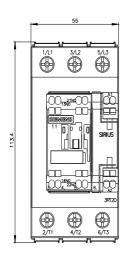
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

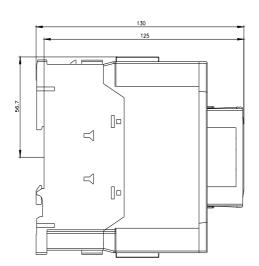
https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-3AL20

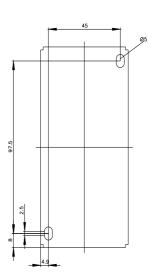
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

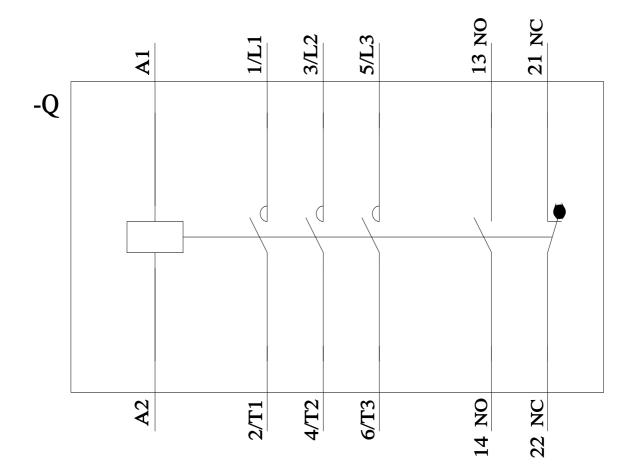
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2036-3AL20&lang=en

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2036-3AL20&objecttype=14&gridview=view1









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