Data sheet

3RT2036-1AK64-3MA0



power contactor, AC-3e/AC-3, 51 A, 22 kW / 400 V, 3-pole, 110 V AC, 50 Hz / 120 V, 60 Hz, auxiliary contacts: 2 NO + 2 NC, screw terminal, size: S2, captive auxiliary switch

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	No
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 protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	9.8g / 5 ms, 6.5g / 10 ms
shock resistance with sine pulse	
• at AC	15.3g / 5 ms, 10.1g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	10 000 000
 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

3
690 V
690 V
70 A
70 A
60 A
51 A
51 A
24 A
51 A
51 A
24 A
41 A
61.6 A
41.5 A
43.2 A
43.2 A
43.2 A
24 A
28.8 A
28.8 A
28.8 A
24 A
25 mm ²
24 A
24 A
20 A
EE A
55 A
23 A
23 A 4.5 A
23 A 4.5 A 1 A
23 A 4.5 A 1 A 0.4 A
23 A 4.5 A 1 A
23 A 4.5 A 1 A 0.4 A 0.25 A
23 A 4.5 A 1 A 0.4 A 0.25 A
23 A 4.5 A 1 A 0.4 A 0.25 A 55 A 45 A
23 A 4.5 A 1 A 0.4 A 0.25 A 55 A 45 A
23 A 4.5 A 1 A 0.4 A 0.25 A 55 A 45 A 45 A 5 A
23 A 4.5 A 1 A 0.4 A 0.25 A 55 A 45 A 45 A 5 A 1 A
23 A 4.5 A 1 A 0.4 A 0.25 A 55 A 45 A 45 A 5 A
23 A 4.5 A 1 A 0.4 A 0.25 A 55 A 45 A 45 A 5 A 1 A 0.8 A
23 A 4.5 A 1 A 0.4 A 0.25 A 55 A 45 A 45 A 5 A 1 A 0.8 A
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23 A 4.5 A 1 A 0.4 A 0.25 A 55 A 45 A 5 A 1 A 0.8 A
23 A 4.5 A 1 A 0.4 A 0.25 A 55 A 45 A 1 A 0.8 A
23 A 4.5 A 1 A 0.4 A 0.25 A 55 A 45 A 5 A 1 A 0.8 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			
	55 A			
— at 110 V rated value				
— 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	00.114			
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			
	11.4 kVA 19.9 kVA			
• up to 230 V for current peak value n=30 rated value				
 up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value 	19.9 kVA			
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	19.9 kVA 24.9 kVA			
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 40 °C	19.9 kVA 24.9 kVA 28.6 kVA			
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	19.9 kVA 24.9 kVA 28.6 kVA 937 A; Use minimum cross-section acc. to AC-1 rated value			
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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
• at 60 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	212 VA
• at 60 Hz	188 VA
inductive power factor with closing power of the coil	100 V/
• at 50 Hz	0.69
• at 60 Hz	0.65
apparent holding power of magnet coil at AC	0.03
• at 50 Hz	18.5 VA
• at 60 Hz	16.5 VA
	10.5 VA
inductive power factor with the holding power of the coil	0.26
at 50 Hz at 60 Hz	0.36 0.39
	0.08
closing delay	10 00 mg
• at AC	10 80 ms
opening delay	40 40
• 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	2
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	6 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	6 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
yielded mechanical performance [hp]	<u></u>
• for single-phase AC motor	
— at 110/120 V rated value	3 hp
	O HIP
— at 230 V rated value	10 hp

at 200/230 V rated value at 875/800 V rated value 48	• for 3-phase AC motor			
	— at 200/208 V rated value	15 hp		
	— at 220/230 V rated value			
contact rating of auxiliary contacts according to U. ### A660 / O6800 ### A660 / O6800 / 100 kA), aht: 80 A (800 V, 100 kA), abs: 80 A (600 V, 100 kA), abs: 80 A (— at 460/480 V rated value			
Short-clicuit protection of the fuse link - for short-clicuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required - lors infort-circuit protection of the main circuit - with type of assignment 2 required - lors infort-circuit protection of the auxiliary switch required gis-10A (580V, 100AA), albt. 50A (680V,	— at 575/600 V rated value			
design of the fuse link • for short-circult protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circult protection of the auxiliary switch required Installation instanting dimensions mounting position ***Ariable of the state of th	contact rating of auxiliary contacts according to UL	A600 / Q600		
* 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 auxiliary switch required * or short-circuit protection of the auxiliary switch required * or short-circuit protection of the auxiliary switch required * or short-circuit protection of the auxiliary switch required * or short-circuit protection of the auxiliary switch required * or short-circuit protection of the auxiliary switch required * or short-circuit protection of the auxiliary switch required * or short-circuit protection of the auxiliary switch required * or short-circuit protection of the auxiliary switch required * or short-circuit protection of the auxiliary switch required * or short-circuit protection of the auxiliary switch required * or short-circuit protection of the auxiliary switch required * or short-circuit protection of the auxiliary switch required * or short-circuit protection of the auxiliary switch required * or short-circuit protection of the auxiliary switch required * or short-circuit protection of the auxiliary switch required * or short-circuit protection of the auxiliary switch required * or short-circuit protection of the auxiliary switch required * or short-circuit protection of the auxiliary switch required * or short-circuit protection of the auxiliary switch required * or short-circuit protection of the auxiliary switch required * or short-circuit protection of the auxiliary switch required * or short-circuit protection of the auxiliary contacts * or short-circuit protection of the auxiliary switch required * or short-circuit protection of the auxiliary contacts * or or AVIG cables for auxiliary contacts * or auxiliary	Short-circuit protection			
	design of the fuse link			
- with type of assignment 2 required of or short-clicuit protection of the auxillary switch required installation* mounting ditimensions mounting position fastening method order and backward by y+ 2.25° on vertical mounting surface; can be tilted forward and backward by y+ 2.25° on vertical mounting surface; can be tilted forward and backward by y+ 2.25° on vertical mounting surface; can be tilted forward and backward by y+ 2.25° on vertical mounting surface; can be tilted forward and backward by y+ 2.25° on vertical mounting surface; can be tilted forward and backward by y+ 2.25° on vertical mounting surface; can be tilted forward and backward by y+ 2.25° on vertical mounting surface; can be tilted forward and backward by y+ 2.25° on vertical mounting surface; can be tilted forward and backward by y+ 2.25° on vertical mounting surface; can be tilted forward and backward by y+ 2.25° on vertical mounting surface; can be tilted forward and backward by y+ 2.25° on vertical mounting surface; can be tilted forward and backward by y+ 2.25° on vertical mounting surface; can be tilted forward and backward by y+ 2.25° on vertical mounting surface; can be tilted forward and backward by y+ 2.25° on vertical mounting surface; can be tilted forward and backward by y+ 2.25° on vertical mounting surface; can be tilted forward and backward by y+ 2.25° on vertical mounting surface; can be tilted forward and backward by y+ 2.25° on vertical mounting surface; can be tilted forward and backward by y+ 2.25° on vertical mounting surface; can be tilted forward and backward by y+ 2.25° on vertical mounting surface; can be tilted forward and backward by y+ 2.25° on vertical mounting surface; can be tilted forward and backward by y+ 2.25° on vertical mounting surface; can be tilted forward and backward by y+ 2.25° on vertical mounting surface; can be tilted forward and backward by y+ 2.25° on vertical mounting surface; can be tilted forward and backward by y+ 2.25° on vertical mounting surface; can be tilted forward and backward by y+	 for short-circuit protection of the main circuit 			
• for short-circult protection of the auxiliary switch required mounting dimensions mounting possibility fastening method • side-by-side mounting • with side-by-side mounting • with side-by-side mounting • required spacing • with side-by-side mounting • required spacing • with side-by-side mounting • forwards • upwards • lo mm • downwards • lo mm • downwards • at the side • of or grounded parts • forwards • for live parts • forwards • for live parts • for wards • lor mm • of remain current circuit • of auxiliary and control circuit • of auxiliary and control circuit • for auxiliary and control circuit • for sundiary and control circuit • for side-downductor cross-sections for main contacts • finely stranded with core end processing • connectable conductor cross-sections for main contacts • finely stranded with core end processing • for AWG cables for auxiliary contacts • for a wolliary ontacts • for a wolliary contacts • for a wolliary ontacts • for auxiliary contacts • for a wolliary ontacts • for a wolliary ontacts • for a wolliary ontacts • finely stranded with core end processing • for AWG cables for auxiliary contacts • for a wolliary ontacts • for a wo	 — with type of coordination 1 required 			
mounting position #/-180" rotation possible on vertical mounting surface; can be tilled forward and backward by 1-6-22.5" on vertical mounting surface; can be tilled forward and backward by 1-6-22.5" on vertical mounting surface; can be tilled forward and backward by 1-6-22.5" on vertical mounting surface; can be tilled forward and backward by 1-6-22.5" on vertical mounting surface; can be tilled forward and backward by 1-6-22.5" on vertical mounting surface; can be tilled forward and backward by 1-6-22.5" on vertical mounting surface; can be tilled forward and backward by 1-6-22.5" on vertical mounting surface; can be tilled forward and backward by 1-6-22.5" on vertical mounting surface; can be tilled forward and backward by 1-6-22.5" on vertical mounting surface; can be tilled forward and backward by 1-6-22.5" on vertical mounting surface; can be tilled forward and backward by 1-6-22.5" on vertical mounting surface; can be tilled forward and backward by 1-6-22.5" on vertical mounting surface; can be tilled forward and backward by 1-6-22.5" on vertical mounting surface; can be tilled forward and backward by 1-6-22.5" on vertical mounting surface; can be tilled forward and backward by 1-6-22.5" on vertical mounting surface; can be tilled forward and backward by 1-6-22.5" on mounting onto 3.5 mm in DIN rail according to DIN EN 607.15 I do minuted specified specified in 1-6-22.5" on minuted specified spe	 — with type of assignment 2 required 	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)		
mounting position #4/180" rotation possible on vertical mounting surface: can be tilted forward and backward by +/- 22.5" on vertical mounting surface. ##4/180" rotation possible on vertical mounting onto 35 mm DN rail according to DIN EN 60715 ##4/180" rotation possible on vertical mounting onto 35 mm DN rail according to DIN EN 60715 ##4/180" rotation possible on vertical mounting onto 35 mm DN rail according to DIN EN 60715 ##4/180" rotation possible on vertical for min onto 35 mm DN rail according to DIN EN 60715 ##4/180" rotation possible on rotation	• for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)		
Sackward by +f- 22.5" on vertical mounting surface	Installation/ mounting/ dimensions			
Neight	mounting position			
Might Width S5 mm Gepth 174 mm 174 m	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
width depth 174 mm required spacing • with side-by-side mounting 10 mm — I forwards 10 mm — downwards 10 mm — at the side 0 mm — orwards 10 mm — upwards 10 mm — upwards 10 mm — at the side 6 mm — downwards 10 mm — at the side 6 mm — downwards 10 mm — at the side 7 mm — at the side 8 mm — downwards 10 mm — at the side 9 mm — orwards 10 mm — orwards 5 mm — orwards 6 mm — orwards 7	• side-by-side mounting	Yes		
depth	height	114 mm		
required spacing with side-by-side mounting — forwards — upwards — downwards — at the side — of orgrounded parts — forwards — upwards — 10 mm — upwards — at the side — downwards — of mm — at the side — downwards — forwards — 10 mm — upwards — forwards — 10 mm — upwards — forwards — upwards — 10 mm — upwards — 10 mm — upwards — 10 mm — upwards — upwards — upwards — 10 mm — of mm — upwards — the side — downwards — of mm — upwards — of mm — of mm — upwards — o	width	55 mm		
• with side-by-side mounting - forwards	depth	174 mm		
with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — forwards — upwards — upwards — at the side — downwards — upwards — at the side — downwards — downwards — downwards — forwards — upwards — forwards — upwards — forwards — upwards — at the side — were upwards — at the side — oornections// Terminals **Type of electrical connection • for main current circuit • for availiary and control circuit • at contactor for auxiliary contacts • of magnet coil • of magnet coil • for electrical 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 • for auxiliary contacts • solid or stranded — finely stranded with core end processing • for auxiliary contacts • for auxil	required spacing			
- upwards	with side-by-side mounting			
- upwards	,	10 mm		
- downwards - at the side 0 mm • for grounded parts - forwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm • for live parts - forwards 10 mm • for live parts - downwards 10 mm - at the side 6 mm Connections/Terminals type of electrical connection • for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts • of magnet coil Screw-type terminals screw-type terminals Screw-type terminals • or magnet coil Screw-type terminals • or magnet c	— upwards	10 mm		
- at the side	·			
• for grounded parts — forwards — upwards — at the side — downwards 10 mm • for live parts — forwards — upwards 10 mm • for live parts — forwards — upwards — upwards — upwards — upwards — upwards — 10 mm — downwards — 10 mm — downwards — 10 mm — at the side Connections/ Terminals type of electrical connection • for auxiliary and control circuit • for auxiliary and control circuit • for auxiliary and control circuit • for fauxiliary contacts • oild or stranded • finely stranded with core end processing connectable conductor cross-section 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 4 (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for maxiliary contacts — solid or stranded — finely stranded with core end processing • for maxiliary contacts — solid or stranded — finely stranded with core end processing • for maxiliary contacts — solid or stranded — finely stranded with core end processing • for maxiliary contacts — solid or stranded — finely stranded with core end processing • for maxiliary contacts — solid or stranded — finely stranded with core end processing • for maxiliary contacts — solid or stranded — finely stranded with core end processing • for maxiliary contacts — solid or stranded — finely stranded with core end processing • for maxiliary contacts — solid or stranded — finely stranded with core end processing • for maxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for maxiliary contacts • for maxiliary contacts • for maxiliary contacts • for maxiliar				
- upwards	-	10 mm		
- at the side — downwards 10 mm • for live parts — forwards 10 mm — upwards 10 mm — downwards 10 mm — downwards 10 mm — at the side 6 mm Connections/ Terminals type of electrical connection • for awxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts • of magnet coil Screw-type terminals • at connectable conductor cross-sections for main 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 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 type of connectable conductor cross-sections • 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 • for main contacts • for auxiliary contacts - for main contacts • for auxiliary contacts				
- downwards • for live parts - forwards - upwards - upwards - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • at connectable conductor cross-sections • finely stranded with core end processing connectable conductor cross-sections • for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-sections • for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-sections • 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 connectable conductor cross-sections • for auxiliary contacts • solid or stranded - finely stranded with core end processing 2x (0.5 2.5 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) - for AWC cables for auxiliary contacts • for auxiliary contacts	·			
• 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 • finely stranded with core end processing connectable conductor cross-section for auxiliary 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 • 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-sections • for auxiliary contacts - solid or stranded — finely stranded with core end processing - for AWG cables for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) - finely stranded with core end processing • for AWG cables for auxiliary contacts - for auxiliary contacts - for main contacts • for main contacts • for auxiliary contacts - for auxiliary contacts - for auxiliary contacts - for auxiliary contacts - for auxiliary contacts - for auxiliary contacts - for auxiliary contacts - for auxiliary contacts - for main contacts - for auxiliary contacts - for auxiliary contacts				
forwards upwards upwards downwards downwards downwards at the side domnowards at the side domnowards at the side domnowards downwards -		10 mm		
- 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-sections for main contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • 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 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 2x (1 25 mm² 1 35 mm² connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing 2x (0.5 2.5 mm² 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) • for AWG cables for auxiliary contacts 2x (2 16), 2x (18 14) AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 18 1 • for auxiliary contacts	•	40		
- downwards - at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • of magnet coil Screw-type terminals • solid or stranded 2x (135 mm²), 1x (150 mm²) • finely stranded with core end processing 2x (125 mm²), 1x (135 mm²) connectable conductor cross-section for main contacts • finely stranded with core end processing 135 mm² connectable conductor cross-section for auxiliary contacts • solid or stranded 0.5 2.5 mm² • 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) • for 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 main contacts 18 1 • for auxiliary contacts 20 14				
- at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • of maxylilary and control circuit screw-type terminals • at contactor for auxiliary contacts • of magnet coil Screw-type terminals • of magnet coil Screw-type terminals • solid or stranded • finely stranded with core end processing 2x (1 35 mm²), 1x (1 50 mm²) • finely stranded with core end processing 2x (1 35 mm²), 1x (1 35 mm²) connectable conductor cross-section for main contacts • finely stranded with core end processing 1 35 mm² connectable conductor cross-section for auxiliary contacts • solid or stranded • 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) • for AWG cables for auxiliary contacts • for main contacts 18 1 • for main contacts 18 1 • for mainliary contacts 20 14	·			
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 auxiliary 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 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) • for AWG cables for auxiliary contacts • for main contacts • for auxiliary contacts 20 14				
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 auxiliary contacts • 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 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 (0.5 1.5 mm²), 2x (0.75 2.5 mm²) - finely stranded with core end processing • for AWG cables for auxiliary contacts - Solid or stranded - finely stranded with core end processing • for AWG cables 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 away auxiliary contacts - Solid or stranded - Finely stranded with core end processing • for auxiliary contacts - Solid or stranded - Finely stranded with core end processing • for away auxiliary contacts - Solid or stranded - Solid or stran		6 mm		
• 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 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 type of connectable conductor cross-sections • 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 • for main contacts • for main contacts • for auxiliary contacts • for auxiliary contacts • for main contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for main contacts • for auxiliary contacts	Connections/ Terminals			
 for auxiliary and control circuit 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 connectable conductor cross-section for main contacts finely stranded with core end processing tyne of conductor cross-section for main contacts finely stranded with core end processing solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded for auxiliary contacts for auxiliary contacts for auxiliary contacts for auxiliary contacts for AWG cables for auxiliary contacts for AWG cables for auxiliary contacts for main contacts for main contacts for main contacts for auxiliary contacts 18 1 for auxiliary contacts 20 14 	type of electrical connection			
 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 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 for AWG cables for auxiliary contacts for AWG cables for auxiliary contacts at (0.5 1.5 mm²), 2x (0.75 2.5 mm²) for AWG cables for auxiliary contacts at (20 16), 2x (18 14) AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts 18 1 for auxiliary contacts at (20 14	for main current circuit	screw-type terminals		
• 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 • 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 type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 18 1 • for auxiliary contacts 20 14	 for auxiliary and control circuit 	screw-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 • 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 (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 (20 16), 2x (18 14) AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 18 1 • for auxiliary contacts	 at contactor for auxiliary contacts 	Screw-type terminals		
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 • 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 type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — solid or stranded — finely stranded with core end processing — finely stranded with core end processing — for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 18 1 • for auxiliary contacts 20 14 	type of connectable conductor cross-sections for main contacts			
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 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 moderate stranded finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) for AWG cables for auxiliary contacts for AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts 18 1 for auxiliary contacts 20 14 	 finely stranded with core end processing 	2x (1 25 mm²), 1x (1 35 mm²)		
connectable conductor cross-section for auxiliary contacts	connectable conductor cross-section for main contacts			
connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts - solid or stranded - solid or stranded - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts - for auxiliary contacts 18 1 - for auxiliary contacts 20 14	 finely stranded with core end processing 	1 35 mm²		
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type of connectable conductor cross-sections • 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 • for main contacts • for auxiliary contacts 18 1 • for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14)	 finely stranded with core end processing 	0.5 2.5 mm²		
 for auxiliary contacts — solid or stranded — finely stranded with core end processing ● for AWG cables for auxiliary contacts Ex (20 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14) AWG number as coded connectable conductor cross section ● for main contacts ● for auxiliary contacts 20 14 				
 — solid or stranded — finely stranded with core end processing ● for AWG cables for auxiliary contacts ■ for main contacts ■ for main contacts ■ for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14) AWG number as coded connectable conductor cross section ■ for main contacts ■ for auxiliary contacts 20 14 				
— finely stranded with core end processing • for AWG cables for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14) AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 14	•	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14) AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts 2x (20 16), 2x (18 14) 18 1 20 14				
AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 14				
 for main contacts for auxiliary contacts 18 1 20 14 	AWG number as coded connectable conductor cross			
• for auxiliary contacts 20 14		18 1		
·				
Safety related data	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

Certificates/ approvals

General Product Approval





Confirmation



<u>KC</u>





Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













Marine / Shipping other	Railway	Dangerous Good	
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Confirmation

Confirmation

Vibration and Shock

Transport Information

Further information

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

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=3RT2036-1AK64-3MA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2036-1AK64-3MA0

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

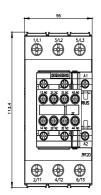
https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1AK64-3MA0

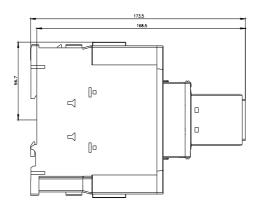
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

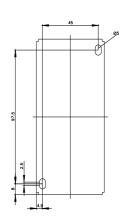
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2036-1AK64-3MA0&lang=en

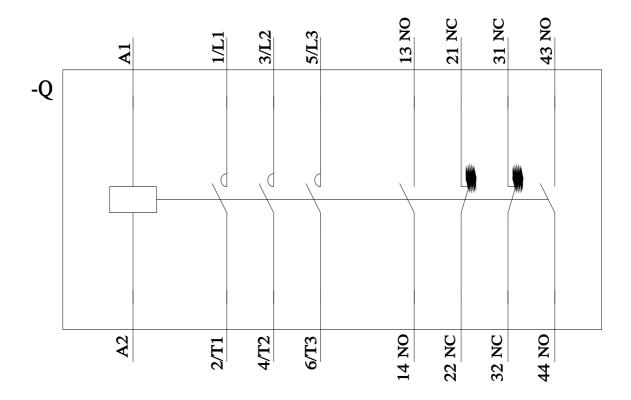
Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1AK64-3MA0/char Further characteristics (e.g. electrical endurance, switching frequency)









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