## **SIEMENS**

Data sheet 3RT2036-1AR64



power contactor, AC-3e/AC-3, 51 A, 22 kW / 400 V, 3-pole, 400 V AC, 50 Hz / 400-440 V, 60 Hz, auxiliary contacts: 2 NO + 2 NC, screw terminal, size: S2, removable auxiliary switch

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	No
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	12 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	4 W
without load current share typical	18.5 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	9.8g / 5 ms, 6.5g / 10 ms
shock resistance with sine pulse	
• at AC	15.3g / 5 ms, 10.1g / 10 ms
mechanical service life (operating cycles)	
of contactor typical	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	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	
<ul> <li>during operation</li> </ul>	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
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 <sup>2</sup>
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
23 A 4.5 A 1 A 0.4 A 0.25 A 55 A 45 A 5 A 1 A 0.8 A 55 A 55 A
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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

-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
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— 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
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— 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-	
4	
<ul> <li>at 400 V rated value</li> </ul>	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	
<ul> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	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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control supply voltage at AC	
• at 50 Hz rated value	400 V
at 60 Hz rated value	400 440 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	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	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]	
• for single-phase AC motor	
— at 110/120 V rated value	3 hp
— 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	15 hp		
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	40 hp		
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	50 hp		
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 or AWG cables for auxiliary contacts     * or auxiliary contact	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+	<ul> <li>for short-circuit protection of the main circuit</li> </ul>			
• 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	<ul> <li>— with type of coordination 1 required</li> </ul>			
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	<ul> <li>— with type of assignment 2 required</li> </ul>	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			
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 supposed to see 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     • of magnet coil     • solid or stranded     • finely stranded with core end processing     connectable conductor cross-sections 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     • solid or stranded     — finely stranded with core end processing     • for auxiliary contacts	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			
<ul> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>Screw-type terminals</li> <li>Screw-type terminals</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>connectable conductor cross-section for main contacts</li> <li>finely stranded with core end processing</li> <li>tyne of conductor cross-section for main contacts</li> <li>finely stranded with core end processing</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>for AWG cables for auxiliary contacts</li> <li>for AWG cables for auxiliary contacts</li> <li>for main contacts</li> <li>for main contacts</li> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>18 1</li> <li>for auxiliary contacts</li> <li>20 14</li> </ul>	type of electrical connection			
<ul> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>Screw-type terminals</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>2x (1 35 mm²), 1x (1 50 mm²)</li> <li>2x (1 25 mm²), 1x (1 35 mm²)</li> </ul> connectable conductor cross-section for main contacts <ul> <li>finely stranded with core end processing</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>o.5 2.5 mm²</li> </ul> type of connectable conductor cross-sections <ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>for AWG cables for auxiliary contacts</li> <li>a for AWG cables for auxiliary contacts</li> <li>a for main contacts</li> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> AWG number as coded connectable conductor cross section <ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> 18 1 <ul> <li>for auxiliary contacts</li> <li>18 1</li> <li>for auxiliary contacts</li> </ul>	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	<ul> <li>for auxiliary and control circuit</li> </ul>	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	<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals		
<ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>2x (1 25 mm²), 1x (1 50 mm²)</li> <li>connectable conductor cross-section for main contacts</li> <li>finely stranded with core end processing</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>finely stranded with core end processing</li> <li>2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)</li> <li>for AWG cables for auxiliary contacts</li> <li>for AWG number as coded connectable conductor cross section</li> <li>for main contacts</li> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>18 1</li> <li>for auxiliary contacts</li> <li>18 1</li> <li>for auxiliary contacts</li> <li>20 14</li> </ul>	of magnet coil	Screw-type terminals		
<ul> <li>• finely stranded with core end processing</li> <li>connectable conductor cross-section for main contacts</li> <li>• finely stranded with core end processing</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>• solid or stranded</li> <li>• finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>• for auxiliary contacts</li> <li>— solid or stranded</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— finely stranded with core end processing</li> <li>— for AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section</li> <li>• for main contacts</li> <li>• for auxiliary contacts</li> <li>18 1</li> <li>• for auxiliary contacts</li> <li>20 14</li> </ul>	type of connectable conductor cross-sections for main contacts			
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  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)  2x (20 1.5 mm²), 2x (0.75 2.5 mm²)  2x (20 1.5 mm²), 2x (18 14)  AWG number as coded connectable conductor cross section  • for main contacts  • for auxiliary contacts  18 1  • for auxiliary contacts	<ul> <li>solid or stranded</li> </ul>	2x (1 35 mm²), 1x (1 50 mm²)		
<ul> <li>finely stranded with core end processing</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>moderate stranded</li> <li>finely stranded with core end processing</li> <li>2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)</li> <li>for AWG cables for auxiliary contacts</li> <li>for AWG number as coded connectable conductor cross section</li> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>18 1</li> <li>for auxiliary contacts</li> <li>20 14</li> </ul>	<ul> <li>finely stranded with core end processing</li> </ul>	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	<ul> <li>finely stranded with core end processing</li> </ul>	1 35 mm²		
<ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— for AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section</li> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>18 1</li> <li>for auxiliary contacts</li> <li>20 14</li> </ul>	connectable conductor cross-section for auxiliary contacts			
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)	solid or stranded	0.5 2.5 mm²		
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)	<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²		
<ul> <li>for auxiliary contacts  — solid or stranded — solid or stranded — finely stranded with core end processing of for AWG cables for auxiliary contacts  ■ for main contacts ■ for main contacts ■ for auxiliary contacts  ■</li></ul>				
<ul> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>● for AWG cables for auxiliary contacts</li> <li>■ for main contacts</li> <li>■ for auxiliary contacts</li> <li>18 1</li> <li>■ for auxiliary contacts</li> <li>2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)</li> <li>2x (20 16), 2x (18 14)</li> </ul>				
— 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				
<ul> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>18 1</li> <li>20 14</li> </ul>	AWG number as coded connectable conductor cross			
• for auxiliary contacts 20 14		18 1		
•				
Safety related data	Safety related data			

product function	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %
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	
<ul> <li>safety-related switching OFF</li> </ul>	Yes

Certificates/ approvals

## **General Product Approval**



Confirmation





<u>KC</u>



EMC Functional Safety/Safety o chinery	Ma- Declaration of Conformity	Test Certificates
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Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

## Marine / Shipping













Marine / Shipping	other	Railway	Dangerous Good	Environment
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Confirmation

Confirmation

Vibration and Shock

Transport Information

Environmental Confirmations

## 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=3RT2036-1AR64

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2036-1AR64

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

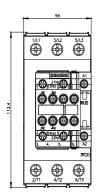
https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1AR64

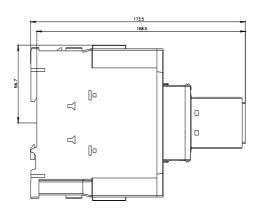
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

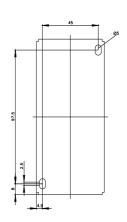
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2036-1AR64\&lang=en}}$ 

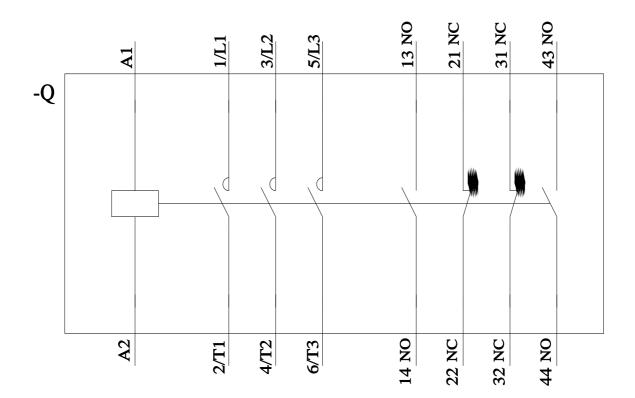
Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1AR64/char Further characteristics (e.g. electrical endurance, switching frequency)









last modified: 2/10/2023 🖸

