# **SIEMENS**

Data sheet 3RT2036-3AF00



power contactor, AC-3 50 A, 22 kW / 400 V 1 NO + 1 NC, 110 V AC, 50 Hz 3-pole, Size S2, Spring-type terminal

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	Yes
power loss [W] for rated value of the current at AC in hot operating state	12 W
• per pole	4 W
power loss [W] for rated value of the current without load current share typical	16 W
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 safe isolation between coil and main contacts acc. to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	11.8g / 5 ms, 7.4g / 10 ms
shock resistance with sine pulse	
• at AC	18.5g / 5 ms, 11.6g / 10 ms
mechanical service life (switching cycles)	
of contactor typical	10 000 000
<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 acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.10.2014 00:00:00
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul><li>during operation</li></ul>	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage at AC-3 rated value maximum	690 V

operational current	70.4
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	70 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C	70 A
rated value	
— up to 690 V at ambient temperature 60 °C	60 A
rated 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-4 at 400 V rated value     at AC-5 aug to 600 V rated value	41 A 61.6 A
at AC-5a up to 690 V rated value     at AC-5b up to 400 V rated value	41.5 A
<ul><li>at AC-5b up to 400 V rated value</li><li>at AC-6a</li></ul>	41.3 A
— up to 230 V for current peak value n=20 rated	43.2 A
value	70.2 A
— up to 400 V for current peak value n=20 rated	43.2 A
value	
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	43.2 A
— up to 690 V for current peak value n=20 rated	24 A
value	217
• at AC-6a	
— up to 230 V for current peak value n=30 rated	28.8 A
value	
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	28.8 A
— up to 500 V for current peak value n=30 rated	28.8 A
value	20.071
— up to 690 V for current peak value n=30 rated	24 A
value	
minimum cross-section in main circuit at maximum AC-1 rated value	25 mm <sup>2</sup>
operational current for approx. 200000 operating	
cycles at AC-4	
<ul> <li>at 400 V rated value</li> </ul>	24 A
at 690 V rated value	20 A
operational current	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— at 24 V rated value	55 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
with 2 current paths in series at DC-1     at 24 V reted value.	55 A
— at 24 V rated value	55 A 45 A
— at 110 V rated value — at 220 V rated value	45 A 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	0.07,
— at 24 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
operational current	
at 1 current path at DC-3 at DC-5	
— at 24 V rated value	35 A

— at 110 V rated value	2.5 A
— at 220 V rated value	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 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 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	4-111
— 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
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	102
• up to 230 V for current peak value n=20 rated value	17.2 kV·A
• up to 400 V for current peak value n=20 rated value	29.9 kV·A
• up to 500 V for current peak value n=20 rated value	37.4 kV·A
• up to 690 V for current peak value n=20 rated value	28.6 kV·A
operating apparent power at AC-6a	
up to 230 V for current peak value n=30 rated value	11.4 kV·A
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	19.9 kV·A
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	24.9 kV·A
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	28.6 kV·A
short-time withstand current in cold operating state up to 40 °C	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	937 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	697 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	468 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	282 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 60 s switching at zero current maximum	229 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	600 1/h
• at AC-3 maximum	800 1/h
at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	110 V
operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	

● at 50 Hz	190 V·A
	190 V-A
inductive power factor with closing power of the coil	0.72
• at 50 Hz	0.72
apparent holding power of magnet coil at AC	46.1/ A
• at 50 Hz	16 V·A
inductive power factor with the holding power of the coil	
• at 50 Hz	0.37
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	1
instantaneous contact	
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
<ul> <li>at 230 V rated value</li> </ul>	10 A
<ul> <li>at 400 V rated value</li> </ul>	3 A
<ul> <li>at 500 V rated value</li> </ul>	2 A
at 690 V rated value	1 A
operational current at DC-12	
<ul> <li>at 24 V rated value</li> </ul>	10 A
<ul> <li>at 48 V rated value</li> </ul>	6 A
<ul> <li>at 60 V rated value</li> </ul>	6 A
<ul> <li>at 110 V rated value</li> </ul>	3 A
<ul> <li>at 125 V rated value</li> </ul>	2 A
at 220 V rated value	1 A
<ul> <li>at 600 V rated value</li> </ul>	0.15 A
operational current at DC-13	
<ul> <li>at 24 V rated value</li> </ul>	10 A
<ul> <li>at 48 V rated value</li> </ul>	2 A
<ul> <li>at 60 V rated value</li> </ul>	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
• for 3-phase AC motor	
— at 200/208 V rated value	15 hp
— at 220/230 V rated value	15 hp
— at 460/480 V rated value	40 hp
— at 575/600 V rated value	50 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
·	

Institution mounting dimensions	- with type of coordination 1 required  - with type of assignment 2 required  - for electric requirements of the applicant specific points.	gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)
#.160" rotation possible on vertical mounting surface; can be tilted forward and backward by +2.22 bit on vertical mounting surface; can be tilted forward and backward by +2.22 bit on vertical mounting surface; can be tilted scording for DIN EN 60715  **side-by-side mounting**  **holght**  **h	<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)
forward and backward by +*- 22.5° on vertical mounting surface serve was dnapa.no mounting noto 35 mm standard mounting rail according to DIN EN 60715  **side-by-side mounting**  height	Installation/ mounting/ dimensions	
side-by-side mounting  height width dopth 114 mm  frequired spacing • with side-by-side mounting - forwards - upwards - downwards - at the side • for grounded parts - forwards - upwards - at the side • for grounded parts - forwards - upwards - at the side • for grounded parts - forwards - upwards - at the side • for grounded parts - forwards - upwards - at the side - downwards - to limm - to read to read to read to limm - to read to read to read to read to limm - to read	mounting position	
height width 55 mm   dopth 55 mm   dopth 130 mm   required spacing   • with side-by-side mounting   — forwards	fastening method	
width depth depth 130 mm required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side — forwards — lo mm — the side — downwards — upwards — lo mm — downwards — upwards — lo mm — downwards — the side — downwards — the side — downwards — the side — downwards — to mm — the side — downwards — the side — side — if or main current circuit — for main current circuit — for auxiliary and control circuit — at contactor for auxiliary contacts — solid or stranded — finely stranded with core end processing — at AWG cables for main contacts — solid or stranded — finely stranded with core end processing — finely stranded with core	<ul> <li>side-by-side mounting</li> </ul>	Yes
required spacing  • with side-by-side mounting  — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — 10 mm  • for grounded parts — forwards — upwards — 10 mm  • for grounded parts — at the side — downwards — 10 mm  • for live parts — for live parts — for live parts — forwards — upwards — 10 mm  • for live parts — forwards — upwards — upwards — 10 mm  • for main current circuit • for auxiliary contacts • for auxiliary contacts — solid or stranded — finely stranded with core end processing • finely s	height	114 mm
required spacing  with side-by-side mounting — forwards — upwards — downwards — 10 mm — at the side — 0 mm  for grounded parts — forwards — upwards — 10 mm — to mm — the side — ownwards — upwards — 10 mm — the side — downwards — 10 mm — the side — downwards — 10 mm — the side — downwards — 10 mm — downwards — 10 mm — downwards — 10 mm — downwards — at the side — ownwards — at the side — ownwards — 10 mm — downwards — the side — ownwards — the side  connections/ Torninals  type of electrical connection  for main current circuit e for auxiliary and control circuit e at contactor for auxiliary contacts — solid or stranded — finely stranded with core end processing e at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross-sections e for auxiliary contacts  AWG number as coded connectable conductor cross-sections e for auxiliary contacts  AWG number as coded connectable conductor cross-sections e for auxiliary contacts  AWG cables for auxiliary contacts	width	55 mm
• with side-by-side mounting  - forwards - upwards - downwards - at the side - for grounded parts - forwards - at the side - for grounded parts - forwards - at the side - downwards - at the side - downwards - at the side - downwards - for live parts - forwards - for live parts - forwards - upwards - for wards - downwards - to mm - forwards - upwards - downwards - to mm - forwards - downwards - to mm - forwards - to mm - downwards - to mm - forwards - to mm - for auxiliary and control circuit - for auxiliary and control circuit - for auxiliary and control circuit - so for auxiliary and control circuit - so for auxiliary contacts - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - fi	depth	130 mm
forwards upwards	required spacing	
- upwards - downwards - at the side - for grounded parts - forwards - upwards - upwards - at the side - upwards - at the side - downwards - at the side - downwards - at the side - downwards - forwards - upwards - downwards - upwards - downwards - downwards - downwards - at the side - for auxiliary and control circuit - so finagnet coil - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - finely stranded with core end processing - finely stranded - finely stranded with core end processing - finely stranded without core end processing	<ul> <li>with side-by-side mounting</li> </ul>	
- downwards - at the side • for grounded parts - forwards - upwards - at the side - downwards - at the side - downwards - to mm • for live parts - forwards - upwards - forwards	— forwards	10 mm
- at the side  • for grounded parts  - forwards  - upwards  - upwards  - at the side  - downwards  • for live parts  - forwards  - towards  - downwards  - downwards  - downwards  - towards  - downwards  - towards  - downwards  - towards  - for main current circuit  • for main current circuit  • for auxiliary and control circuit  • tor auxiliary and control circuit  • tor auxiliary and control circuit  • at contactor for auxiliary contacts  • of magnet coil  type of connectable conductor cross-sections  • for main contacts  - solid or stranded  - finely stranded with core end processing  • for auxiliary contacts  - solid or stranded  - finely stranded with core end processing  • for auxiliary contacts  - solid or stranded  - finely stranded with core end processing  - finely stranded without core end processing  - finely stranded with core end processing  - finely stranded without core end processing  - st AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross-sections	— upwards	10 mm
• for grounded parts  - forwards - upwards - at the side - downwards • for live parts - forwards - upwards - at the side - downwards • for live parts - forwards - upwards - upwards - upwards - upwards - downwards - at the side - at the side - formands - at the side - formands - at the side - formands - at the side  Connections/ Terminals  type of electrical connection • for main current circuit • for awilliary and control circuit • for awilliary and control circuit • for aminicurent circuit • for aminicurent circuit • for aminicurent circuit • for aminicurent circuit • for main current circuit • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing - finely stranded with core end processing - finely stranded without core end processing - at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross-sections  **Code	— downwards	10 mm
- forwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm  • for live parts - forwards 10 mm  • for live parts - forwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 6 mm  Connections/ Torminals  type of electrical connection • for main current circuit spring-loaded terminals • for auxiliary and control circuit spring-loaded terminals • of magnet coil Spring-type terminals  • for main contacts - solid or stranded 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 35 mm²), 1x (1 35 mm²) 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 • finely stranded with core end processing 1 35 mm² • finely stranded with core end processing 0.5 1.5 mm² • finely stranded with core end processing 1 35 mm²  type of connectable conductor cross-sections • finely stranded with core end processing 0.5 2.5 mm²  type of connectable conductor cross-sections • finely stranded with core end processing 0.5 2.5 mm²  type of connectable conductor cross-sections • finely stranded with core end processing 2x (0.5 2.5 mm²  - finely stranded with core end processing - at AWG cables for auxiliary contacts - 2x (20 1.5 mm²)  • at AWG cables for auxiliary contacts - 2x (20 1.4)	— at the side	0 mm
- upwards - at the side 6 mm - downwards 10 mm  • for live parts - forwards 10 mm  • for live parts - forwards 10 mm - downwards 10 mm - at the side 6 mm   Connections/ Torminals  type of electrical connection • for main current circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • at contactor for auxiliary contacts Spring-type terminals • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing • at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross-sections  • AWG number as coded connectable conductor cross-sections	<ul> <li>for grounded parts</li> </ul>	
- at the side	— forwards	10 mm
- downwards  • for live parts  - forwards  - upwards  - downwards  - downwards  - downwards  - at the side  Connections/ Terminals  type of electrical connection  • for auxiliary and control circuit  • at contactor for auxiliary contacts  • of magnet coil  type of connectable conductor cross-sections  • for main contacts  - solid or stranded  - finely stranded with core end processing  • solid or stranded  • finely stranded with core end processing  • finely	— upwards	10 mm
• for live parts  forwards upwards upwards downwards at the side  Connections/ Terminals  type of electrical connection • for main current circuit • at contactor for auxiliary contacts • of magnet coil  type of connectable conductor cross-sections • for main contacts solid or stranded finely stranded with core end processing • finely stranded wit	— at the side	6 mm
- forwards - upwards - upwards - downwards - at the side  Connections/ Terminals  type of electrical connection	— downwards	10 mm
- forwards - upwards - upwards - downwards - at the side  Connections/ Terminals  type of electrical connection	for live parts	
- upwards - downwards - at the side  Connections/ Terminals  type of electrical connection  of main contacts - solid or stranded - finely stranded with core end processing of the sufficial connectable conductor cross-sections  of innely stranded with core end processing - finely stranded with core end processing - for auxiliary contacts  of innely stranded with core end processing - finely stranded without core end processing - at AWG cables for auxiliary contacts  2x (0.5 2.5 mm²)	·	10 mm
- downwards - at the side  Connections/ Terminals  type of electrical connection  • for main current circuit • at contactor for auxiliary and control circuit • at contactor for auxiliary contacts • for main connectable conductor cross-sections • for main contacts  - solid or stranded - finely stranded with core end processing • ofinely stranded with core end processing • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • for auxiliary contacts  - solid or stranded - finely stranded with core end processing • for auxiliary contacts  - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - finely stranded with core end processing - finely stranded with core end processing • at AWG cables for auxiliary contacts  - AWG number as coded connectable conductor cross-sections - section		10 mm
Type of electrical connection  of or main current circuit  of or auxiliary and control circuit  of magnet coil  type of connectable conductor cross-sections  of magnet coil  type of connectable conductor cross-sections  of or auxiliary and control circuit  of magnet coil  type of connectable conductor cross-sections  of or main contacts  — solid or stranded — finely stranded with core end processing  of inely stranded without core end processing  of or auxiliary contacts  of inely stranded with core end processing  of inely stranded with core end processing  of or auxiliary contacts  of inely stranded with core end processing  of inely stranded without core end processing  of or auxiliary contacts  of inely stranded with core end processing  of inely stranded without core end processing  of inely stranded wi	·	
type of electrical connection  • for main current circuit  • for auxiliary and control circuit  • at contactor for auxiliary contacts  • of magnet coil  type of connectable conductor cross-sections  • for main contacts  — solid or stranded — finely stranded with core end processing  • at AWG cables for auxiliary contacts  • solid or stranded  • finely stranded with core end processing  • solid or stranded • finely stranded with core end processing  • solid or stranded • finely stranded with core end processing  • 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 auxiliary contacts  - solid or stranded - finely stranded with core end processing • for auxiliary contacts  - solid or stranded - finely stranded with core end processing • for auxiliary contacts  - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - solid o		
type of electrical connection  • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil  type of connectable conductor cross-sections • for main contacts  — solid or stranded — finely stranded with core end processing • solid or stranded • finely stranded with core end processing • 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 — finely stranded with core end processing • at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section		O THIN
• 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 with core end processing     • finely stranded without core end processing     • at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section		
• for auxiliary and control circuit     • at contactor for auxiliary contacts     • of magnet coil  type of connectable conductor cross-sections     • for main contacts     — solid or stranded     — finely stranded with core end processing     • solid or stranded     • finely stranded with core end processing     • solid or stranded     • finely stranded with core end processing     • solid or stranded     • 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     — 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 end processing     • AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section   spring-type terminals  2x (1 25 mm²)  2x (1 25 mm²)  2x (0.5 2.5 mm²)  2x (0.5 2.5 mm²)  2x (0.5 2.5 mm²)  2x (20 14)		covery have described
at contactor for auxiliary contacts of magnet coil  type of connectable conductor cross-sections  of rmain contacts  — solid or stranded — finely stranded with core end processing  of inely stranded without core end processing  of auxiliary contacts  of auxiliary contacts  of auxiliary contacts  of inely stranded with core end processing  of inely stranded with core end processing  of inely stranded with core end processing  of auxiliary contacts  of inely stranded with core end processing  of inely stranded with core end processing  of inely stranded with core end processing  of auxiliary contacts  of inely stranded with core end processing  of all XMG cables for auxiliary contacts  AWG number as coded connectable conductor cross section		21
• of magnet coil      type of connectable conductor cross-sections     • for main contacts         — solid or stranded         — finely stranded with core end processing         • at AWG cables for main contacts          • finely stranded with core end processing         • finely stranded with core end processing         • 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 with core end processing         • finely stranded without core end processing         • finely stranded without core end processing         • finely stranded without core end processing         • finely stranded with core end processing         • for auxiliary contacts         — solid or stranded         — finely stranded with core end processing         • for auxiliary contacts          — solid or stranded         — finely stranded with core end processing         — solid or stranded         — finely stranded with core end processing         — solid or stranded	•	,
type of connectable conductor cross-sections  • for main contacts  — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts  • finely stranded with core end processing  • at AWG cables for main contacts  • finely stranded with core end processing  connectable conductor cross-section for main contacts  • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts  • solid or stranded • 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  — 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 end processing  • at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section	-	
• for main contacts		Spring-type terminals
- solid or stranded - finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing • finely stranded with core end processing • 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 • 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 - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded without core end processing - solid or stranded		
<ul> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> <li>2x (1 25 mm²), 1x (1 35 mm²)</li> <li>2x (18 2), 1x (18 1)</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>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG cables for auxiliary contacts</li> </ul> AWG number as coded connectable conductor cross section <ul> <li>2x (1 25 mm²)</li> <li>2x (1 25 mm²)</li> <li>2x (0.5 2.5 mm²)</li> <li>2x (0.5 2.5 mm²)</li> </ul> 2x (20 14) AWG number as coded connectable conductor cross section		
<ul> <li>at AWG cables for main contacts</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>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG cables for auxiliary contacts</li> <li>at AWG number as coded connectable conductor cross section</li> </ul>		
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 - finely stranded without core end processing - finely stranded without core end processing - at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section		
ontacts  • 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 without core end processing • for auxiliary contacts  - solid or stranded - finely stranded with core end processing - finely stranded without core e		2x (18 2), 1x (18 1)
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 — at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section	contacts	
<ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without 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>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG cables for auxiliary contacts</li> <li>at AWG number as coded connectable conductor cross section</li> </ul>		1 35 mm²
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without 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>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG cables for auxiliary contacts</li> <li>at AWG number as coded connectable conductor cross section</li> </ul>	-	
finely stranded without core end processing      type of connectable conductor cross-sections         of rauxiliary contacts	<ul> <li>solid or stranded</li> </ul>	0.5 2.5 mm <sup>2</sup>
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  • at 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)	<ul> <li>finely stranded with core end processing</li> </ul>	0.5 1.5 mm²
<ul> <li>for auxiliary contacts         <ul> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end processing</li> <li>— finely stranded without core end processing</li> <li>at AWG cables for auxiliary contacts</li> </ul> </li> <li>AWG number as coded connectable conductor cross section</li> </ul>	finely stranded without core end processing	0.5 2.5 mm²
<ul> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end processing</li> <li>— finely stranded without core end processing</li> <li>• at AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section</li> </ul> 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (20 14)	type of connectable conductor cross-sections	
<ul> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end processing</li> <li>— at AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section</li> </ul> 2x (0.5 1.5 mm²) 2x (20 14)		
<ul> <li>— finely stranded without core end processing</li> <li>■ at AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section</li> </ul> 2x (0.5 2.5 mm²) 2x (20 14)	<ul><li>— solid or stranded</li></ul>	2x (0.5 2.5 mm²)
• at AWG cables for auxiliary contacts 2x (20 14)  AWG number as coded connectable conductor cross section	<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²)
AWG number as coded connectable conductor cross section	<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm²)
AWG number as coded connectable conductor cross section	<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	2x (20 14)
• for main contacts 18 1	AWG number as coded connectable conductor cross	
	for main contacts	18 1
• for auxiliary contacts 20 14		
Safety related data		

_
Yes
1 000 000
40 %
73 %
100 FIT
No
20 y
IP20
finger-safe, for vertical contact from the front
Yes

Certificates/ approvals

## **General Product Approval**















Functional	
Safety/Safety of	f
Machinery	

## **Declaration of Conformity**

**Test Certificates** 

Marine / Shipping

Type Examination Certificate



UK Declaration of Conformity Type Test Certificates/Test Report

Special Test Certificate



### Marine / Shipping













#### other

Confirmation

Confirmation

#### **Further information**

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2036-3AF00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2036-3AF00

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

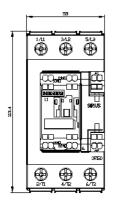
https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-3AF00

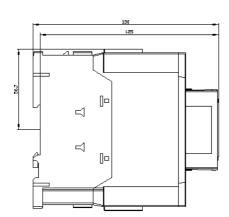
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

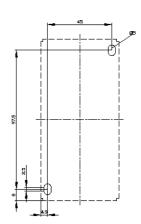
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2036-3AF00\&lang=en}$ 

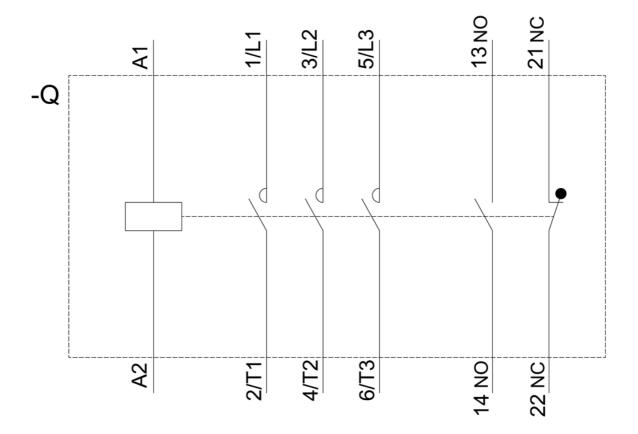
Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-3AF00/char









last modified: 12/21/2020 🖸