## **SIEMENS**

3RT1076-6NB36 **Data sheet** 



Power contactor, AC-3 500 A, 250 kW / 400 V AC (50-60 Hz) / DC 21-27.3 V UC Auxiliary contacts 2 NO + 2 NC 3-pole, size S12 Busbar connections Operating mechanism: solid-state with PLC interface 24 V DC screw

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S12
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	165 W
• per pole	55 W
power loss [W] for rated value of the current without load current share typical	3.6 W
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for safe isolation between coil and main contacts acc. to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	8,5g / 5 ms, 4,2g / 10 ms
• at DC	8,5g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	13,4g / 5 ms, 6,5g / 10 ms
• at DC	13,4g / 5 ms, 6,5g / 10 ms
mechanical service life (switching cycles)	
<ul> <li>of contactor typical</li> </ul>	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
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature during operation	-25 +60 °C
ambient temperature 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	1 000 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	610 A
• at AC-1	
<ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul>	610 A
<ul> <li>up to 690 V at ambient temperature 60 °C rated value</li> </ul>	550 A
<ul> <li>up to 1000 V at ambient temperature 40 °C rated value</li> </ul>	200 A
— up to 1000 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	200 A
• at AC-3	
— at 400 V rated value	500 A
— at 500 V rated value	500 A
— at 690 V rated value	450 A
— at 1000 V rated value	180 A
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	430 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	536 A
<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	415 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	414 A
— up to 400 V for current peak value n=20 rated value	414 A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	414 A
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	414 A
<ul> <li>up to 1000 V for current peak value n=20 rated value</li> </ul>	180 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	276 A
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	276 A
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	276 A
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	276 A
— up to 1000 V for current peak value n=30 rated value	180 A
minimum cross-section in main circuit at maximum AC-1 rated value	370 mm²
operational current for approx. 200000 operating cycles at AC-4	475 A
• at 400 V rated value	175 A
at 690 V rated value	150 A
operational current	
• at 1 current path at DC-1	400 A
— at 24 V rated value	400 A
— at 110 V rated value	33 A
— at 220 V rated value	3.8 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.6 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
— at 440 V rated value	4 A
— at 600 V rated value	2 A

<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
— at 440 V rated value	11 A
— at 600 V rated value	5.2 A
operational current	
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	400 A
— at 110 V rated value	3 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.18 A
— at 600 V rated value	0.125 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	2.5 A
— at 440 V rated value	0.65 A
— at 600 V rated value	0.37 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
• at AC-3	
— at 230 V rated value	160 kW
— at 400 V rated value	250 kW
— at 500 V rated value	315 kW
— at 690 V rated value	400 kW
— at 1000 V rated value	250 kW
operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	98 kW
• at 690 V rated value	148 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	160 000 kV·A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	280 000 V·A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	350 000 V·A
• up to 690 V for current peak value n=20 rated value	490 000 V·A
up to 1000 V for current peak value n=20 rated value	310 000 V·A
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	110 000 V·A
up to 400 V for current peak value n=30 rated value	190 000 V·A
• up to 500 V for current peak value n=30 rated value	230 000 V·A
• up to 690 V for current peak value n=30 rated value	330 000 V·A
• up to 1000 V for current peak value n=30 rated	310 000 V·A
value	
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>	7 484 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	7 484 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	5 978 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	3 765 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	2 887 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	1 000 1/h

• at DC	1 000 1/h
operating frequency	
<ul><li>at AC-1 maximum</li></ul>	500 1/h
<ul> <li>at AC-2 maximum</li> </ul>	170 1/h
<ul> <li>at AC-3 maximum</li> </ul>	420 1/h
<ul> <li>at AC-4 maximum</li> </ul>	130 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
at 50 Hz rated value	21 27.3 V
at 60 Hz rated value	21 27.3 V
control supply voltage at DC	
• rated value	21 27.3 V
type of PLC-control input acc. to IEC 60947-1	Type 2
consumed current at PLC-control input acc. to IEC	20 mA
60947-1 maximum	20 110 (
voltage at PLC-control input rated value	24 V
operating range factor of the voltage at PLC-control	0.8 1.1
input	
operating range factor control supply voltage rated value of magnet coil at DC	
• initial value	0.8
full-scale value	1.1
operating range factor control supply voltage rated	
value of magnet coil at AC	0.0 4.4
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
apparent pick-up power of magnet coil at AC	
• at 50 Hz	750 V·A
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
apparent holding power of magnet coil at AC	
• at 50 Hz	7 V·A
inductive power factor with the holding power of the	
coil  • at 50 Hz	0.0
	0.8
closing power of magnet coil at DC	800 W
holding power of magnet coil at DC	3.6 W
closing delay	00 00
• at AC	60 90 ms
• at DC	60 90 ms
opening delay	00 400
• at AC	80 100 ms
• at DC	80 100 ms
arcing time	10 15 ms
control version of the switch operating mechanism	PLC-IN or Standard A1 - A2 (adjustable)
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     at 690 V rated value	1 A
operational current at DC-12	.,,
at 24 V rated value	10 A
■ at 27 v rateu value	IVA

* all 48 V rated value		
at 110 V rated value	<ul><li>at 48 V rated value</li></ul>	6 A
a 125 V rated value	<ul> <li>at 60 V rated value</li> </ul>	6 A
	at 110 V rated value	3 A
• at 600 V rated value	at 125 V rated value	2 A
Operational current at DC-13   • al 24 V rated value   2 A	at 220 V rated value	1 A
all 24 V rated value	at 600 V rated value	0.15 A
all 24 V rated value	operational current at DC-13	
• at 48 V rated value • at 60 V rated value • at 10 V rated value • at 125 V rated value • at 226 V rated value • at 226 V rated value • at 227 V rated value • at 250 V rated value • at 575 600 V rated value • at 575 600 V rated value • bio protection  design of the fuse link • for short-circuit protection of the main circuit • with type of assignment 2 required • for short-circuit protection of the auxiliary switch • for short-circuit protection of the auxiliary • side-by-side mounting • side-	•	10 A
■ at 160 V rated value     ■ at 1710 V rated value     ■ at 1220 V rated value     ■ at 2220 V rated value     ■ at 220 V rated value     ■ at 220 V rated value     ■ at 800 V rated value     ■ at 220230 V rated value     ■ at 2500500 V rated value     ■ at 460480 V rated value     ■ at 460480 V rated value     ■ at 460480 V rated value     ■ at 575600 V rated value     ■ at 575600 V rated value     ■ of or short-circuit protection of the main circuit     ■ with type of coordination 1 required     ■ with type of assignment 2 required     ■ with type of assignment 2 required     ■ with sales by-sale mounting     ■ sales by-sale mounting     ■ sales by-sale mounting     ■ side-by-sale mounting     ■ with sale-by-sale mounting     ■ of owards     ■ upwards     ■ of or grounded parts     ■ converds     ■ at the sale     ■ owards     ■ owar		
• at 110 V rated value     • at 125 V rated value     • at 220 V rated value     • at 200 V rated value     • at 600 V rated value     • at 200/208 V rated value     • at 200/208 V rated value     • at 200/208 V rated value     • at 200/209 V rated value     • at 200/300 V rated value     • at 75/600 V rated value     • at 600 V rated value     • at 75/600 V rated value     • at 75/600 V rated value     • at 75/600 V rated value     • at 600 V rated value     • at 600/400 V rated value     • at 75/600 V rated value     • at 600/400 V rated value     • at 75/600 V rated value     • for short-circuit protection of the main circuit     • with type of coordination 1 required     • with type of coordination 1 required     • with type of coordination 1 required     • for short-circuit protection of the auxiliary switch     • for short-circuit p		
• at 125 V rated value • at 220 V rated value • at 480 V rated value • at 800 V rated value • at 200228 V rated value • at 220/230 V rated value • at 220/230 V rated value • at 220/230 V rated value • at 260/480 V rated value • at 275/600 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 675/600 V rated value • at 675/600 V rated value • at 69/480 V rated value • with type of coordination 1 required • with type of assignment 2 required • for short-circuit protection of the auxiliary switch required    Installation mounting dimensions    Installation mounting dimensions		
• at 220 V rated value		
• at 500 V rated value  Contact reliability of auxiliary contacts  1 faulty switching per 100 million (17 V, 1 mA)    ViciSA ratings		
1 faulty switching per 100 million (17 V, 1 mA)		
Full-lad current (FLA) for 3-phase AC motor   at 480 V rated value   477 A   472 A		
full-load current (FLA) for 3-phase AC motor  at 480 V rated value 477 A 48 to 480 V rated value 478 A 478 A 478 A 479 A 477 A 479 A 477 A 48 to 480 V rated value 479 A 479 A 477 A 48 to 480 V rated value 479 A 479 A 479 A 479 A 477 A 477 A 478 A		r laulty switching per 100 million (17 V, 1 mA)
• at 480 V rated value 477 A 472 A 4	-	
• at 600 V rated value   472 A		
vielded mechanical performance [hp]   • for 3-phase AC motor   — at 200/230 V rated value		
• for 3-phase AC motor  — at 200/208 V rated value — at 220/230 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 575/600 V rated value  contact rating of auxillary contacts according to UL  Short-circuit protection  design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required — with type of assignment 2 required — with type of assignment 2 required — for short-circuit protection of the auxiliary switch required — with type of sasignment 2 required — side-by-side mounting dimensions  mounting position  fastening method • side-by-side mounting  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tillable to the front and back screw fixing  * side-by-side mounting  fastening method • side-by-side mounting  - forwards — upwards — domwwards — the side — downwards — the side — downwards — to mm  • for grounded parts — forwards — upwards — to mm  • for live parts — forwards — downwards — forwards — downwards — to mm  • for live parts — forwards — downwards — downwards — downwards — to mm  • for live parts — forwards — upwards — downwards — downwards — downwards — downwards — forwards — downwards — forwards — upwards — downwards — to mm  • for live parts — forwards — upwards — downwards — upwards — upwards — downwards — upwards — downwards — upwards — upward		472 A
- at 200/208 V rated value		
- at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required - with stallation/ mounting/ dimensions  mounting position  fastening method • side-by-side mounting - side-by-side mounting - with side-by-side mounting - forwards - upwards - downwards - at the side - for grounded parts - forwards - upwards - for live parts - forwards - upwards - downwards - upwards - upwards - downwards - downw	<ul> <li>for 3-phase AC motor</li> </ul>	
- at 460/480 V rated value 500 hp contact rating of auxiliary contacts according to UL Short-circuit protection  design of the fuse link	<ul> <li>— at 200/208 V rated value</li> </ul>	150 hp
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required — with type of assignment 2 required — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions  mounting position  fastening method • side-by-side mounting  • side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • ownered apacing  • with side-by-side mounting  • or forwards — upwards — odwnwards — at the side — of or grounded parts — of orwards — upwards — at the side — downwards — odwnwards — of orwards — at the side — downwards — odwnwards — odwnwards — of or live parts — forwards — odwnwards — of orwards — upwards — of orwards — at the side — downwards — odwnwards — of orwards — of orwards — upwards — of orwards	<ul> <li>at 220/230 V rated value</li> </ul>	200 hp
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required    side by side by-side mounting / dimensions	<ul> <li>at 460/480 V rated value</li> </ul>	400 hp
Short-circuit protection  design of the fuse link	— at 575/600 V rated value	500 hp
design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required — with type of assignment 2 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back  fastening method • side-by-side mounting  • side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • oforwards — upwards — at the side — odomwards — at the side — downwards — at the side — downwards • for live parts — forwards — ownwards	contact rating of auxiliary contacts according to UL	A600 / Q600
design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required — with type of assignment 2 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back  fastening method • side-by-side mounting  • side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • oforwards — upwards — at the side — odomwards — at the side — downwards — at the side — downwards • for live parts — forwards — ownwards	Short-circuit protection	
• for short-circuit protection of the main circuit  — with type of coordination 1 required — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required spacing  • with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-20.5° tiltable to the front and back screw fixing  • side-by-side mounting  • side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • of orwards  — downwards  — at the side  • of orgounded parts  — forwards  — upwards  — at the side  — downwards  10 mm  • for live parts  — forwards  — forwards  — forwards  — ownwards  • for live parts  — forwards  — upwards  — upwards  — upwards  — forwards  — ownwards  —		
- with type of coordination 1 required - with type of assignment 2 required - with type of assignment 2 required - with type of assignment 2 required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  screw fixing - side-by-side mounting - to required spacing - with side-by-side mounting - forwards - upwards - at the side - downwards - forwards - downwards - forwards - f	_	
with type of assignment 2 required  of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  screw fixing  of side-by-side mounting  of side-by-side mounting  of with side-by-side mounting  of with side-by-side mounting  of orwards  of upwards  of or grounded parts  of or grounded parts  of or grounded  of or grounded parts  of orwards  of		gG: 630 A (690 V 100 kA)
• for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  ### with vertical mounting surface +/-90° rotatable, with vertic		· · · · · · · · · · · · · · · · · · ·
Installation/ mounting/ dimensions  mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing  **side-by-side mounting**  **height** **width** **depth**  **required spacing**  **with side-by-side mounting**  - forwards		
mounting position     with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back       fastening method <ul> <li>side-by-side mounting</li> <li>yes</li> </ul> height     214 mm           width         160 mm           depth         225 mm           required spacing         0 with side-by-side mounting           - forwards         20 mm           - upwards         10 mm           - downwards         10 mm           - at the side         0 mm           • for grounded parts         20 mm           - upwards         10 mm           - at the side         10 mm           - downwards         10 mm           • for live parts         20 mm           - forwards         20 mm           - upwards         10 mm           - downwards         10 mm           - downwards         10 mm           - downwards         10 mm           - downwards         10 mm           - forwards         20 mm           - forwards         20 mm           - forwards         20 mm           - forwards         10 mm           - forwards         10 mm <tr< td=""><td></td><td>gG: 10 A (500 V, 1 kA)</td></tr<>		gG: 10 A (500 V, 1 kA)
surface +/- 22.5° tiltable to the front and back screw fixing  ● side-by-side mounting  height  width  depth  required spacing  ● with side-by-side mounting  — forwards — upwards — downwards — at the side — of orgrounded parts — forwards — upwards — at the side — of orwards — at the side — of orwards — at the side — of ownwards — of or live parts — forwards — upwards — upwards — upwards — upwards — of ownwards — ownwards	Installation/ mounting/ dimensions	
fastening method screw fixing   ● side-by-side mounting Yes   height 214 mm   width 160 mm   depth 225 mm   required spacing 225 mm   ● with side-by-side mounting - forwards   — forwards 20 mm   — upwards 10 mm   — downwards 10 mm   — at the side 0 mm   — orgounded parts - forwards   — upwards 10 mm   — at the side 10 mm   — downwards 10 mm   • for live parts - forwards   — upwards 20 mm   — upwards 10 mm   • for live parts - forwards   — upwards 10 mm   — downwards 10 mm   — downwards 10 mm   — downwards 10 mm   — downwards 10 mm	mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting
e side-by-side mounting  height  width  depth  required spacing  ● with side-by-side mounting  — forwards — upwards — downwards — at the side — of grounded parts — forwards — upwards — at the side — of grounded parts — forwards — at the side — of grounded parts — forwards — at the side — of prounded parts — forwards — upwards — upwards — upwards — upwards — upwards — of mm — at the side — downwards — at the side — downwards — downwards — for live parts — forwards — upwards — upwards — upwards — downwards — of mm — downwards — upwards — upw		surface +/- 22.5° tiltable to the front and back
height         214 mm           width         160 mm           depth         225 mm           required spacing         20 mm           • with side-by-side mounting         - forwards           — forwards         20 mm           — upwards         10 mm           — at the side         0 mm           • for grounded parts         20 mm           — upwards         10 mm           — at the side         10 mm           — downwards         10 mm           • for live parts         20 mm           — upwards         20 mm           — upwards         10 mm           — downwards         10 mm           — downwards         10 mm	fastening method	screw fixing
width         160 mm           depth         225 mm           required spacing	side-by-side mounting	Yes
depth         225 mm           required spacing         • with side-by-side mounting           — forwards         20 mm           — upwards         10 mm           — downwards         10 mm           — at the side         0 mm           • for grounded parts         20 mm           — upwards         10 mm           — at the side         10 mm           — downwards         10 mm           • for live parts         20 mm           — upwards         10 mm           — downwards         10 mm           — downwards         10 mm	height	214 mm
required spacing  ● with side-by-side mounting  — forwards — upwards — downwards — at the side  ● for grounded parts — forwards — upwards — upwards — at the side  10 mm  20 mm  ● for grounded parts  — forwards — upwards — upwards — at the side — downwards  ● for live parts  — forwards — upwards — upwards — upwards — downwards  10 mm  ● for live parts — forwards — upwards — upwards — upwards — upwards — upwards — upwards — downwards  10 mm	width	160 mm
<ul> <li>with side-by-side mounting</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>for grounded parts</li> <li>upwards</li> <li>upwards</li> <li>at the side</li> <li>0 mm</li> <li>0 mm</li> <li>10 mm</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>10 mm</li> <li>ofor live parts</li> <li>upwards</li> <li>upwards</li> <li>0 mm</li> <li>odownwards</li> <li>10 mm</li> <li>odownwards</li> <li>10 mm</li> <li>odownwards</li> <li>10 mm</li> <li>odownwards</li> <li>omm</li> <li>odownwards</li> <li>odownwards</li> </ul>	depth	225 mm
— forwards       20 mm         — upwards       10 mm         — downwards       10 mm         — at the side       0 mm         — forwards       20 mm         — upwards       10 mm         — at the side       10 mm         — downwards       10 mm         ● for live parts       20 mm         — upwards       20 mm         — upwards       10 mm         — downwards       10 mm	required spacing	
— upwards       10 mm         — downwards       10 mm         — at the side       0 mm         • for grounded parts       20 mm         — forwards       20 mm         — upwards       10 mm         • for live parts       10 mm         — forwards       20 mm         — upwards       10 mm         — downwards       10 mm	<ul> <li>with side-by-side mounting</li> </ul>	
<ul> <li>— downwards</li> <li>— at the side</li> <li>● for grounded parts</li> <li>— forwards</li> <li>— upwards</li> <li>— at the side</li> <li>— at the side</li> <li>— downwards</li> <li>● for live parts</li> <li>— forwards</li> <li>— upwards</li> <li>— upwards</li> <li>— downwards</li> <li>— forwards</li> <li>— downwards</li> <li>— upwards</li> <li>— downwards</li> <li>— to mm</li> </ul>	— forwards	20 mm
<ul> <li>— at the side</li> <li>● for grounded parts</li> <li>— forwards</li> <li>— upwards</li> <li>— at the side</li> <li>— at the side</li> <li>— downwards</li> <li>● for live parts</li> <li>— forwards</li> <li>— upwards</li> <li>— upwards</li> <li>— downwards</li> <li>10 mm</li> <li>— upwards</li> <li>— downwards</li> <li>10 mm</li> </ul>	— upwards	10 mm
<ul> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>10 mm</li> <li>for live parts</li> <li>downwards</li> <li>upwards</li> <li>downwards</li> <li>10 mm</li> </ul>	— downwards	10 mm
— forwards 20 mm — upwards 10 mm — at the side 10 mm — downwards 10 mm  • for live parts — forwards 20 mm — upwards 20 mm — upwards 10 mm  10 mm	— at the side	0 mm
— forwards 20 mm — upwards 10 mm — at the side 10 mm — downwards 10 mm  • for live parts — forwards 20 mm — upwards 20 mm — upwards 10 mm  10 mm	for grounded parts	
<ul> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> <li>• for live parts</li> <li>— forwards</li> <li>— upwards</li> <li>— upwards</li> <li>— downwards</li> <li>10 mm</li> <li>10 mm</li> </ul>		20 mm
— at the side 10 mm — downwards 10 mm  • for live parts — forwards 20 mm — upwards 10 mm  — downwards 10 mm		
<ul> <li>— downwards</li> <li>● for live parts</li> <li>— forwards</li> <li>— upwards</li> <li>— downwards</li> <li>10 mm</li> <li>10 mm</li> <li>10 mm</li> </ul>	·	
<ul> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>10 mm</li> <li>mm</li> </ul>		
<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>20 mm</li> <li>10 mm</li> <li>10 mm</li> </ul>		
<ul><li>upwards</li><li>downwards</li><li>10 mm</li><li>10 mm</li></ul>		20 mm
— downwards 10 mm		
	·	
— at the side		
	— at the side	TO THILL

Connections/ Terminals	
width of connection bar	25 mm
thickness of connection bar	6 mm
diameter of holes	11 mm
number of holes	1
type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	Connection bar
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals
of magnet coil	Screw-type terminals
type of connectable conductor cross-sections	
at AWG cables for main contacts	2/0 500 kcmil
connectable conductor cross-section for main contacts	
• stranded	70 240 mm²
connectable conductor cross-section for auxiliary contacts	
<ul> <li>solid or stranded</li> </ul>	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)
<ul><li>— solid or stranded</li></ul>	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14), 1x 12
<ul> <li>AWG number as coded connectable conductor cross section for auxiliary contacts</li> </ul>	18 14
Safety related data	
B10 value with high demand rate acc. to SN 31920	1 000 000
product function	
<ul> <li>mirror contact acc. to IEC 60947-4-1</li> </ul>	Yes
<ul> <li>positively driven operation acc. to IEC 60947-5-1</li> </ul>	No
protection class IP on the front acc. to IEC 60529	IP00; IP20 with box terminal/cover
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover
suitability for use safety-related switching OFF	Yes
Certificates/ approvals	

**General Product Approval** 

EMC

Declaration of Conformity













Declaration of Conformity

**Test Certificates** 

Marine / Shipping

**Miscellaneous** 

Type Test
Certificates/Test
Report

Special Test Certificate







other Railway

ConfirmationMiscellaneousMiscellaneousConfirmationSpecial Test<br/>Certificate

## 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=3RT1076-6NB36

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT1076-6NB36}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-6NB36

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

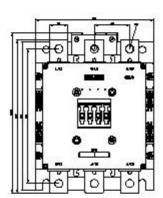
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1076-6NB36&lang=en

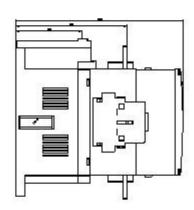
Characteristic: Tripping characteristics, I2t, Let-through current

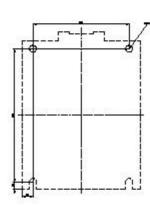
https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-6NB36/char

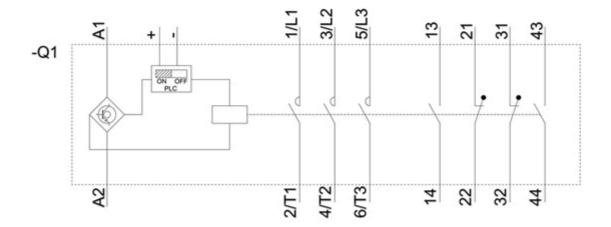
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1076-6NB36&objecttype=14&gridview=view1









last modified: 12/18/2020 🖸