## **SIEMENS**

Data sheet 3RT1076-2NP36



power contactor, AC-3e/AC-3 500 A, 250 kW / 400 V AC (50-60 Hz) / DC Uc: 200-277 V PLC input 24 V DC 3-pole, auxiliary contacts 2 NO + 2 NC drive: electronic main circuit: busbar control and auxiliary circuit: spring-loaded terminal

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	
<ul> <li>at AC in hot operating state</li> </ul>	165 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	55 W
<ul> <li>without load current share typical</li> </ul>	3.6 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	500 V
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 protective separation between coil and main contacts according 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 (operating 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 according to IEC 81346-2	Q
Substance Prohibitance (Date)	05/01/2012
SVHC substance name	Lead - 7439-92-1
Weight	10.34 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C

relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30	95 %
maximum	
lain circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	1 000 V
at AC-3e rated value maximum	1 000 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated	610 A
value	
• at AC-1	040.4
<ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul>	610 A
— up to 690 V at ambient temperature 60 °C rated value	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
• at AC-3e	
— 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
at AC-4 at 400 V rated value	430 A
at AC-5a up to 690 V rated value	536 A
at AC-5b up to 400 V rated value	415 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	414 A
— up to 400 V for current peak value n=20 rated value	414 A
— up to 500 V for current peak value n=20 rated value	414 A
— up to 690 V for current peak value n=20 rated value	414 A
— up to 1000 V for current peak value n=20 rated	180 A
value	100 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	276 A
— up to 400 V for current peak value n=30 rated value	276 A
— up to 500 V for current peak value n=30 rated value	276 A
— up to 690 V for current peak value n=30 rated value	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	
• at 400 V rated value	175 A
at 690 V rated value	150 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	400 A
— at 60 V rated value	330 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
• with 2 current paths in series at DC-1	
— at 24 V rated value	400 A

— at 60 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 60 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
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	400 A
— at 60 V rated value	11 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 60 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 60 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
• at AC-3e	
— 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-	
at 400 V rated value	98 kW
at 400 V rated value     at 690 V rated value	148 kW
operating apparent power at AC-6a	170 KW
up to 230 V for current peak value n=20 rated value	160 000 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	280 000 VA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	350 000 VA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	490 000 VA
up to 1000 V for current peak value n=20 rated value  up to 1000 V for current peak value n=20 rated value	310 000 VA
operating apparent power at AC-6a	0.0 000 V/1
• up to 230 V for current peak value n=30 rated value	110 000 VA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	190 000 VA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	230 000 VA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	330 000 VA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> </ul>	310 000 VA
- ap to 1000 v for current peak value II-30 fateu value	OTO OOU VA

short-time withstand current in cold operating state up to 40 °C	
limited to 1 s switching at zero current maximum	7 484 A; Use minimum cross-section acc. to AC-1 rated value
limited to 5 s switching at zero current maximum	7 484 A; Use minimum cross-section acc. to AC-1 rated value
limited to 10 s switching at zero current maximum	5 978 A: Use minimum cross-section acc. to AC-1 rated value
limited to 30 s switching at zero current maximum	3 765 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum	2 887 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	2 007 A, OSC Millimum cross-section acc. to AO-1 rated value
• at AC	1 000 1/h
• at DC	1 000 1/h
operating frequency	1 000 1/11
at AC-1 maximum	500 1/h
• at AC-2 maximum	170 1/h
• at AC-3 maximum	420 1/h
• at AC-3e maximum	420 1/h
• at AC-4 maximum	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	200 277 V
at 60 Hz rated value	200 277 V
control supply voltage at DC rated value	200 277 V
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	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
type of PLC-control input according to IEC 60947-1	Type 2
consumed current at PLC-control input according to IEC	20 mA
60947-1 maximum	20 1111
voltage at PLC-control input rated value	24 V
operating range factor of the voltage at PLC-control input	0.8 1.1
design of the surge suppressor	with varistor
apparent pick-up power	
<ul> <li>at minimum rated control supply voltage at AC</li> </ul>	
— at 50 Hz	560 VA
— at 60 Hz	560 VA
at maximum rated control supply voltage at AC	
— at 60 Hz	750 VA
— at 50 Hz	750 VA
apparent pick-up power of magnet coil at AC	
• at 50 Hz	750 VA
• at 60 Hz	750 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
• at 60 Hz	0.8
apparent holding power	
at minimum rated control supply voltage at DC	3 VA
at maximum rated control supply voltage at DC     at maximum rated control supply voltage at DC	3.6 VA
apparent holding power	
at minimum rated control supply voltage at AC	
— at 50 Hz	5.6 VA
— at 60 Hz	5.6 VA
	0.0 VA
at maximum rated control supply voltage at AC     at 50 Hz	9 VA
— at 50 Hz	
— at 60 Hz	9 VA
inductive power factor with the holding power of the coil	0.5
• at 50 Hz	0.5
● at 60 Hz	0.4

closing newer of magnet call of DC	900 W
closing power of magnet coil at DC	800 W
holding power of magnet coil at DC	3.6 W
closing delay  • at AC	60 90 ms
• at DC	60 90 ms
opening delay	60 90 IIIS
• 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	PLO-IN OF Standard AT - AZ (adjustable)
number of NC contacts for auxiliary contacts instantaneous	2
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	10 A
• at 48 V rated value	2 A
at 60 V rated value	2 A
at 110 V rated value	1 A
at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	477 A
• at 600 V rated value	472 A
yielded mechanical performance [hp]	
for 3-phase AC motor     at 200/208 V rated value.	150 hp
— at 200/208 V rated value	150 hp
— at 220/230 V rated value	200 hp
— at 460/480 V rated value	400 hp
— at 575/600 V rated value	500 hp A600 / Q600
contact rating of auxiliary contacts according to UL Short-circuit protection	A000 / Q000
design of the fuse link	
for short-circuit protection of the main circuit	aG: 630 A (690 V 100 kA)
with type of coordination 1 required  with type of assignment 2 required.	gG: 630 A (690 V, 100 kA)
— with type of assignment 2 required	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA)
• for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
nstallation/ 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	Yes
fastening method	screw fixing
height	214 mm

Description   Convarts	width	160 mm
• with aide-by-eitle mounting	depth	225 mm
— forwards — downwards — of wards — of wards — of wards — of wards — of regrence pats — forwards — opwards — of man — of the side — opwards — of man — of wards — opwards — opwards — of man — of wards — opwards — opw	-	
- upwards	with side-by-side mounting	
- downwards	— forwards	20 mm
	— upwards	10 mm
• for grounded parts	— downwards	10 mm
- forwards	— at the side	0 mm
- forwards	for grounded parts	
- upwards   10 mm   1		20 mm
alt he side   10 mm		
For Inversaria   Forwards   Fo	•	
- for live parts - forwards - upwards - downwards - at the side - at the side - and the side - and the side - and the side - formanctions/ terminals  type of electrical connection - for auxiliary and control circuit - at contactor for auxiliary contacts - at contactor cross-section for aux		
- forwards		No triali
- upwards	·	20 mm
- downwards — at the side 10 mm - at the side 10 mm  Connections Terminals  type of electrical connection  • for main current circuit contact spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • of magnet coil Spring-type terminals • of magnet coil Spring-type terminals • dramaged connection bar 25 mm  thickness of connection bar 6 mm  diameter of holes 11 mm  number of holes 11 mm  number of holes 11 mm  number of holes 12 mm  type of connectable conductor cross-sections • for AWG cables for main contacts 20 mm² • finely stranded with core end processing 0.25 2.5 mm² • finely stranded without core end processing 0.25 2.5 mm² • for auxiliary contacts  • solid or stranded 2		
— at the side	•	
type of electrical connection  • for main current circuit • for auxillary and control circuit • for auxillary and control circuit • for auxillary and control circuit • of auxillary and control circuit • of auxillary and control circuit • of magnet coil width of connection bar thickness of connectable conductor cross-sections • for AWG cables for main contacts • solid or stranded  • for inely stranded without core end processing • for connectable conductor cross-sections • for auxillary contacts  • solid  - solid or stranded  • for auxillary contacts  • solid  - solid or stranded  • for explaint contacts  • for auxillary contacts  • for au		
type of olectrical connection  • for main current circuit  • for main current circuit  • at contactor for auxiliary contacts  • at contactor for auxiliary contacts  • of magnet coil  with of connection bar  thickness of connection bar  diameter of holes  • for AWG cables for main contacts  • stranded  connectable conductor cross-section for auxiliary contacts  • silvanded with core end processing  • finely stranded without core end processing  • for auxiliary contacts  • 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 without core end processing  • for auxiliary contacts  - solid or stranded  - finely stranded without core end processing  • for auxiliary contacts  - solid or stranded  - finely stranded without core end processing  • for auxiliary contacts  - solid or stranded  - finely stranded without core end processing  • for auxiliary contacts  - solid or stranded  - finely stranded without core end processing  • for auxiliary contacts  - solid or stranded  - finely stranded without core end processing  • for auxiliary contacts  - solid or stranded  - finely stranded without core end processing  • for auxiliary contacts  - solid or stranded  - solid or s		IV IIIII
• for main current circuit  • for auxiliary and control circuit  • for auxiliary and control circuit  • of magnet coil  width of connection bar  diameter of holes  • for AWG cables for main contacts  • of magnet coil  type of connectable conductor cross-sections  • for AWG cables for main contacts  • stranded  connectable conductor cross-section for main contacts  • stranded  connectable conductor cross-section for auxiliary contacts  • solid or stranded  • finely stranded without core end processing  • for auxiliary contacts  • solid or stranded  conductable conductor cross-sections  • for auxiliary contacts  • for auxiliary contact		
• for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coll  width of connection bar  thickness of connection bar  thickness of connection bar  diameter of holes  number of holes  type of connectable conductor cross-sections • finely stranded with core end processing - solid - solid or stranded - finely stranded with core end processing - finely stranded with core end processin		
• at contactor for auxiliary contacts     • of magnet coul     • of connectable conductor cross-sections     • for AWG cables for main contacts     • of ra AWG cables for main contacts     • stranded     • of a AWG cables for main contacts     • of a radied     • of a radial productor cross-section for auxiliary contacts     • solid or stranded     • finely stranded with core end processing     • finely stranded with core end processing     • finely stranded without core end processing     • for own contactable conductor cross-sections     • for a suitiary contacts     • solid or stranded     • finely stranded with core end processing     • for fav Will are a soded connectable conductor cross-sections     • for a suitiary contacts     • for a variliary contacts     • section     • for a variliary contacts     • section     • for a variliary contacts     • section     • positively driven operation according to IEC 60947-5-1     • vith low demand rate according to SN 31920     • with high demand rate according to SN 31920     • with high demand rate according to SN 31920     • with high demand rate according to SN 31920     • with high demand rate according to SN 31920     •		
width of connection bar  diameter of holes type of connectable conductor cross-sections of AWG cables for main contacts estranded connectable conductor cross-section for main contacts of holes stranded connectable conductor cross-section for main contacts of a stranded connectable conductor cross-section for auxiliary contacts of linely stranded with core end processing finely stranded without core end processing of auxiliary contacts  of or auxiliary contacts  of or auxiliary contacts  of auxilia	•	
width of connection bar         25 mm           thickness of connection bar         6 mm           diameter of holes         11 mm           number of holes         1           type of connectable conductor cross-sections         2 0 500 kcmil           connectable conductor cross-section for main contacts         2 0 240 mm²           e stranded         70 240 mm²           connectable conductor cross-section for auxiliary contacts         5 off conductor cross-section for auxiliary contacts           e solid or stranded         0.25 2.5 mm²           finely stranded with core end processing         0.25 2.5 mm²           type of connectable conductor cross-sections         6 or auxiliary contacts           e for auxiliary contacts         2x (0.25 2.5 mm²)           - solid         2x (0.25 2.5 mm²)           - solid or stranded with core end processing         2x (0.25 2.5 mm²)           - finely stranded with core end processing         2x (0.25 2.5 mm²)           - finely stranded without core end processing         2x (0.25 2.5 mm²)           - for auxiliary contacts         2x (24 14           AWG number as coded connectable conductor cross-section           • for auxiliary contacts         2x (24 14           Section           • for auxiliar	•	
thickness of connection bar diameter of holes 11 mm number of holes 11 mm number of holes 12 mumber of holes	of magnet coil	Spring-type terminals
diameter of holes         11 mm           number of holes         1           type of connectable conductor cross-sections • for AWC cables for main contacts         20 500 kcmil           connectable conductor cross-section for main contacts • siranded         70 240 mm²           connectable conductor cross-section for auxiliary contacts         5 solid or stranded           • solid or stranded with core end processing         0.25 2.5 mm²           • finely stranded without core end processing         0.25 2.5 mm²           • for auxiliary contacts         2 x (0.25 2.5 mm²)           • solid or stranded         2 x (0.25 2.5 mm²)           - solid or stranded         2 x (0.25 2.5 mm²)           - solid or stranded with core end processing         2 x (0.25 2.5 mm²)           - finely stranded with core end processing         2 x (0.25 2.5 mm²)           - finely stranded without core end processing         2 x (0.25 2.5 mm²)           - for AWG cables for auxiliary contacts         2 x (2.4 14)           AWG number as coded connectable conductor cross section           • for auxiliary contacts         2 4 14           Safety related data           Product function           • mirror contact according to IEC 60947-4-1         Yes           • suitable for safely function	width of connection bar	25 mm
type of connectable conductor cross-sections	thickness of connection bar	6 mm
type of connectable conductor cross-sections of rAWG cables for main contacts connectable conductor cross-section for main contacts of standed connectable conductor cross-section for auxiliary contacts of sidior stranded of inely stranded with core end processing of nely stranded with core end processing of auxiliary contacts  of a WG cables for auxiliary contacts  AWG number as coded connectable conductor cross-section of a waxiliary contacts  auxiliary contacts	diameter of holes	11 mm
onnectable conductor cross-section for main contacts	number of holes	1
connectable conductor cross-section for main contacts	type of connectable conductor cross-sections	
stranded  connectable conductor cross-section for auxiliary contacts  solid or stranded finely stranded with core end processing for auxiliary contacts  - solid - solid or stranded - solid or stranded - finely stranded without core end processing - solid - solid - solid - solid - solid or stranded - finely stranded with core end processing - solid - solid or stranded - finely stranded with core end processing - finely stranded with core end processing - finely stranded without core end processing - for AWG cables for auxiliary contacts  2x (0.25 2.5 mm²) - finely stranded without core end processing - for AWG cables for auxiliary contacts - sort of auxiliary contacts - for auxiliary contacts - solid - for auxiliary contacts - for a	<ul> <li>for AWG cables for main contacts</li> </ul>	2/0 500 kcmil
esolid or stranded  • finely stranded with 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  • for auxiliary contacts  • solid or stranded  - solid or stranded  - finely stranded with core end processing  - finely stranded with core end processing  - finely stranded without core end processing  • for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section  • for auxiliary contacts  24 14   AWG number as coded connectable conductor cross section  • for auxiliary contacts  24 14   Safety related data  product function  • mirror contact according to IEC 60947-4-1  • positively driven operation according to IEC 60947-5-1  • suitability for use safety-related switching OFF  ves service life maximum  20 a  test wear-related service life necessary  proportion of dangerous fallures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  100 000  fallure rate [FIT] with low demand rate according to SN 31920  100 000  fallure rate [FIT] with low demand rate according to SN 31920  100 000	connectable conductor cross-section for main contacts	
solid or stranded     finely stranded with core end processing     finely stranded without core end processing     type of connectable conductor cross-sections     for auxiliary contacts     — solid     — solid	• stranded	70 240 mm²
infinely stranded with core end processing infinely stranded without core end processing  infinely stranded without core end processing  info rauxiliary contacts  infinely stranded  infinely stranded  infinely stranded with core end processing  infinely stranded with core end processing  infinely stranded with core end processing  infinely stranded without core end processing  infinely stranded wi	connectable conductor cross-section for auxiliary contacts	
• finely stranded without core end processing  type of connectable conductor cross-sections     • for auxiliary contacts     — solid     — solid	<ul> <li>solid or stranded</li> </ul>	0.25 2.5 mm²
type of connectable conductor cross-sections  • for auxiliary contacts  — solid	<ul> <li>finely stranded with core end processing</li> </ul>	0.25 1.5 mm²
• for auxiliary contacts  — solid — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section  • for auxiliary contacts  24 14  Safety related data  product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 • suitable for safety function  • suitable for safety function  suitablity for use safety-related switching OFF  yes; safety-related disconnection via A1 A2  service life maximum  20 a  test wear-related service life necessary  proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920  aliure rate [FIT] with low demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920	<ul> <li>finely stranded without core end processing</li> </ul>	0.25 2.5 mm <sup>2</sup>
- solid 2x (0.25 2.5 mm²) - solid or stranded 2x (0.25 2,5 mm²) - finely stranded with core end processing 2x (0.25 1.5 mm²) - finely stranded without core end processing 2x (0.25 1.5 mm²) - finely stranded without core end processing 2x (0.25 2.5 mm²) - for AWG cables for auxiliary contacts 2x (24 14)  AWG number as coded connectable conductor cross section - for auxiliary contacts 24 14  Safety related data  product function - mirror contact according to IEC 60947-4-1 Yes - positively driven operation according to IEC 60947-5-1 No - suitable for safety function Yes suitability for use safety-related switching OFF Yes; safety-related disconnection via A1 A2  service life maximum 20 a test wear-related service life necessary Yes  proportion of dangerous failures - with low demand rate according to SN 31920 40 % - with high demand rate according to SN 31920 73 %  B10 value with high demand rate according to SN 31920 1000 000  failure rate [FIT] with low demand rate according to SN 31920 1000 FIT	type of connectable conductor cross-sections	
- solid or stranded - finely stranded with core end processing - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing - for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section - for auxiliary contacts  24 14   AWG number as coded connectable conductor cross section - for auxiliary contacts  24 14  Safety related data  product function - mirror contact according to IEC 60947-4-1 - positively driven operation according to IEC 60947-5-1 - suitable for safety function  ves suitability for use safety-related switching OFF  yes; safety-related disconnection via A1 A2  service life maximum  20 a  test wear-related service life necessary  proportion of dangerous failures - with low demand rate according to SN 31920 - with high demand rate according to SN 31920 - with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920	for auxiliary contacts	
finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing finely stranded without core end processing for AWG cables for auxiliary contacts  2x (24 14)  AWG number as coded connectable conductor cross section for auxiliary contacts for auxiliary contacts  24 14  Safety related data  product function mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 suitable for safety function suitable for safety function suitablity for use safety-related switching OFF yes; safety-related disconnection via A1 A2  service life maximum yes  proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920	— solid	2x (0.25 2.5 mm²)
finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing for AWG cables for auxiliary contacts  2x (0.25 2.5 mm²) 2x (24 14)  AWG number as coded connectable conductor cross section for auxiliary contacts for auxiliary contacts  24 14  Safety related data  product function mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 suitability for use safety function  suitability for use safety-related switching OFF  service life maximum with low demand rate according to SN 31920 with low demand rate according to SN 31920 with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920  100 FIT	— solid or stranded	2x (0,25 2,5 mm²)
- finely stranded without core end processing for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section for auxiliary contacts  4 14  Safety related data  product function mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 suitable for safety function  suitability for use safety-related switching OFF service life maximum 20 a  test wear-related service life necessary with low demand rate according to SN 31920 with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 suitability for use safety-related switching OFF service life maximum function function 20 a 40 % 50 With high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920		
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<ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> <li>suitable for safety function</li> <li>suitability for use safety-related switching OFF</li> <li>Yes; safety-related disconnection via A1 A2</li> <li>service life maximum</li> <li>20 a</li> <li>test wear-related service life necessary</li> <li>Proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>1 000 000</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>100 FIT</li> </ul>	Safety related data	
<ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> <li>suitable for safety function</li> <li>suitability for use safety-related switching OFF</li> <li>Yes; safety-related disconnection via A1 A2</li> <li>service life maximum</li> <li>20 a</li> <li>test wear-related service life necessary</li> <li>Proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>1 000 000</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>100 FIT</li> </ul>	product function	
positively driven operation according to IEC 60947-5-1     suitable for safety function  suitability for use safety-related switching OFF  Yes; safety-related disconnection via A1 A2  service life maximum  20 a  test wear-related service life necessary  Proportion of dangerous failures  with low demand rate according to SN 31920  with high demand rate according to SN 31920  with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  1000 FIT		Yes
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● with high demand rate according to SN 31920 73 %  B10 value with high demand rate according to SN 31920 1 000 000  failure rate [FIT] with low demand rate according to SN 31920 100 FIT		40 %
B10 value with high demand rate according to SN 31920 1 000 000  failure rate [FIT] with low demand rate according to SN 100 FIT 100 FIT	-	
failure rate [FIT] with low demand rate according to SN 100 FIT 31920	·	
31920		
		100 FII
ISO 13849		

device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
Electrical Safety	
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover
Approvals Certificates	

## **General Product Approval**







Confirmation





**EMV Functional Saftey Test Certificates** Marine / Shipping



Type Examination Certificate

Type Test Certificates/Test Report

**Special Test Certific**ate





Marine / Shipping other







**Miscellaneous** 

Confirmation

Confirmation

other Railway **Environment** 

Environmental Con-Special Test Certific-**Miscellaneous** <u>ate</u> **firmations** 

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=3RT1076-2NP36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1076-2NP36

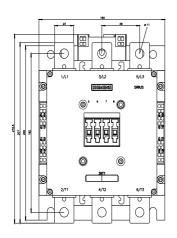
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

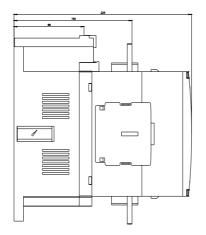
https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-2NP3

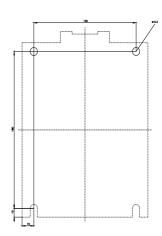
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

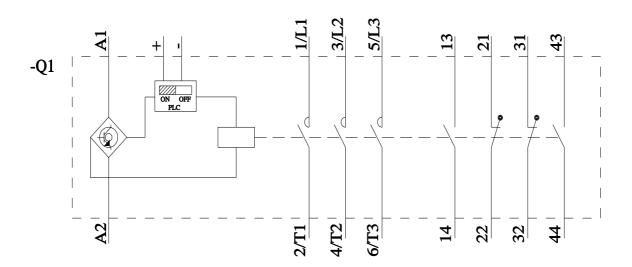
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1076-2NP36&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current



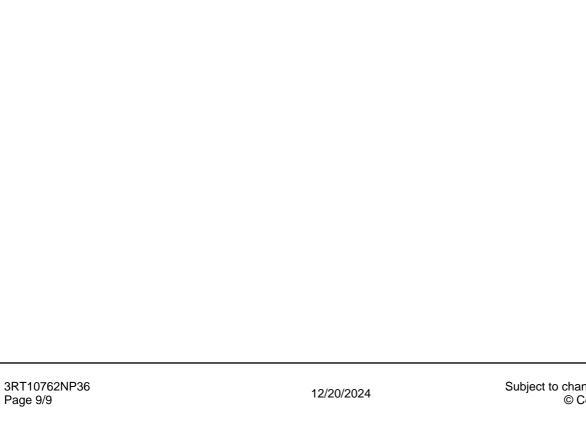






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