## **SIEMENS**

Data sheet 3RT2037-1AR64



power contactor, AC-3e/AC-3, 65 A, 30 kW / 400 V, 3-pole, 400 V AC, 50 Hz / 400-440 V, 60 Hz, auxiliary contacts: 2 NO + 2 NC, screw terminal, size: S2, removable auxiliary switch

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	No
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	11.4 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	3.8 W
without load current share typical	6.5 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>	690 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	9.8g / 5 ms, 6.5g / 10 ms
shock resistance with sine pulse	
• at AC	15.3g / 5 ms, 10.1g / 10 ms
mechanical service life (operating cycles)	
<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
of the contactor with added auxiliary switch block typical	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2014
Weight	1.096 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 maximum	95 %

Environmental footprint	
Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eg] total	236 kg
Global Warming Potential [CO2 eq] during manufacturing	4.11 kg
Global Warming Potential [CO2 eq] during manufacturing	233 kg
Global Warming Potential [CO2 eq] after end of life	-0.635 kg
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
at AC-3e rated value maximum	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> <li>at AC-1</li> </ul>	80 A
— up to 690 V at ambient temperature 40 °C rated value	80 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	70 A
• at AC-3	
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value	47 A
• at AC-3e	
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value	47 A
at AC-4 at 400 V rated value	55 A
at AC-5a up to 690 V rated value	70.4 A
at AC-5b up to 400 V rated value	53.9 A
• at AC-6a	56 O A
<ul> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	56.9 A 56.9 A
up to 500 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value	56.9 A
— up to 690 V for current peak value n=20 rated value	47 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	38 A
— up to 400 V for current peak value n=30 rated value	38 A
— up to 500 V for current peak value n=30 rated value	38 A
— up to 690 V for current peak value n=30 rated value	38 A
minimum cross-section in main circuit at maximum AC-1 rated value	25 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	28 A
at 690 V rated value	22 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	23 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 rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A

<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
• at 1 current path at DC-3 at DC-5	1.7 /
— at 24 V rated value	35 A
— at 60 V rated value	6 A
— at 220 V rated value	1A
— at 440 V rated value	0.1 A
— at 600 V rated value	0.06 A
with 2 current paths in series at DC-3 at DC-5	0.00 A
— at 24 V rated value	55 A
	45 A
— at 60 V rated value	
— at 110 V rated value	25 A
— at 220 V rated value	5 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
with 3 current paths in series at DC-3 at DC-5	
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— 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	
<ul> <li>at AC-2 at 400 V rated value</li> </ul>	30 kW
• at AC-3	
— at 230 V rated value	18.5 kW
— at 400 V rated value	30 kW
— at 500 V rated value	37 kW
— at 690 V rated value	37 kW
• at AC-3e	
— at 230 V rated value	18.5 kW
— at 400 V rated value	30 kW
— at 500 V rated value	37 kW
— at 690 V rated value	37 kW
operating power for approx. 200000 operating cycles at AC-	
a at 400 V rated value	14.7 kW
• at 400 V rated value	
at 690 V rated value  Appropriate apparent power at AC 62	20 kW
operating apparent power at AC-6a	22.6 63/0
up to 230 V for current peak value n=20 rated value	22.6 kVA
up to 400 V for current peak value n=20 rated value      up to 500 V for current peak value n=20 rated value.	39.4 kVA
up to 500 V for current peak value n=20 rated value	49.2 kVA
• up to 690 V for current peak value n=20 rated value	56.1 kVA
operating apparent power at AC-6a	45.414/4
• up to 230 V for current peak value n=30 rated value	15.1 kVA
• up to 400 V for current peak value n=30 rated value	26.2 kVA
• up to 500 V for current peak value n=30 rated value	32.8 kVA
up to 690 V for current peak value n=30 rated value	45.3 kVA
short-time withstand current in cold operating state up to 40 °C	
Iimited to 1 s switching at zero current maximum	1 055 A; Use minimum cross-section acc. to AC-1 rated value
-	
Ilimited to 5 s switching at zero current maximum     Ilimited to 10 s switching at zero current maximum	730 A; Use minimum cross-section acc. to AC-1 rated value
limited to 10 s switching at zero current maximum     limited to 20 s switching at zero current maximum	520 A; Use minimum cross-section acc. to AC-1 rated value
limited to 30 s switching at zero current maximum     limited to 60 s switching at zero current maximum	336 A; Use minimum cross-section acc. to AC-1 rated value
Ilimited to 60 s switching at zero current maximum	272 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	800 1/h
• at AC-2 maximum	400 1/h
• at AC-3 maximum	700 1/h
• at AC-3e maximum	700 1/h
• at AC-4 maximum	200 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	400 V
at 60 Hz rated value	400 440 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	212 VA
• at 60 Hz	188 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.69
• at 60 Hz	0.65
apparent holding power	
at minimum rated control supply voltage at AC	
— at 60 Hz	17.2 VA
— at oo ⊓z  • at maximum rated control supply voltage at AC	TILE VIX
	17.2 \/A
— at 60 Hz	17.2 VA
apparent holding power of magnet coil at AC  • at 50 Hz	18.5 VA
• at 60 Hz	16.5 VA
inductive power factor with the holding power of the coil	0.26
• at 50 Hz	0.36
• at 60 Hz	0.39
closing delay  • at AC	10 80 ms
opening delay	10 00 IIIS
	10 19 mg
• at AC	10 18 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	2
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	6 A
• at 400 V rated value	3 A
<ul><li>at 400 V rated value</li><li>at 500 V rated value</li></ul>	3 A 2 A
<ul><li>at 500 V rated value</li><li>at 690 V rated value</li></ul>	3 A
at 500 V rated value     at 690 V rated value  operational current at DC-12	3 A 2 A 1 A
<ul><li>at 500 V rated value</li><li>at 690 V rated value</li></ul>	3 A 2 A
at 500 V rated value     at 690 V rated value  operational current at DC-12	3 A 2 A 1 A
at 500 V rated value  at 690 V rated value  operational current at DC-12  at 24 V rated value	3 A 2 A 1 A
<ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul> operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> </ul>	3 A 2 A 1 A 10 A 6 A
at 500 V rated value  at 690 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 60 V rated value	3 A 2 A 1 A  10 A 6 A 6 A
at 500 V rated value  at 690 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 110 V rated value	3 A 2 A 1 A  10 A 6 A 6 A 3 A
at 500 V rated value  at 690 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 110 V rated value  at 125 V rated value	3 A 2 A 1 A  10 A 6 A 6 A 3 A 2 A
at 500 V rated value  at 690 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 110 V rated value  at 125 V rated value  at 220 V rated value	3 A 2 A 1 A  10 A 6 A 6 A 3 A 2 A 1 A
at 500 V rated value at 690 V rated value  operational current at DC-12  at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value	3 A 2 A 1 A  10 A 6 A 6 A 3 A 2 A 1 A
at 500 V rated value at 690 V rated value  operational current at DC-12  at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13	3 A 2 A 1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A

<ul> <li>at 60 V rated value</li> </ul>	2 A
<ul> <li>at 110 V rated value</li> </ul>	1 A
• at 125 V rated value	0.9 A
<ul> <li>at 220 V rated value</li> </ul>	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	
<ul> <li>at 480 V rated value</li> </ul>	65 A
<ul> <li>at 600 V rated value</li> </ul>	52 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	5 hp
— at 230 V rated value	10 hp
• for 3-phase AC motor	
— at 200/208 V rated value	20 hp
— at 220/230 V rated value	20 hp
— at 460/480 V rated value	50 hp
— at 575/600 V rated value	50 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
— with type of coordination 1 required	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)
— with type of assignment 2 required	gG: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (415V,80kA)
for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	30.1071(0001,110)
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and
	backward by +/- 22.5° on vertical mounting surface  Yes
fastening method side-by-side mounting	
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	114 mm
width	55 mm 174 mm
depth required spacing	174 (1111)
with side-by-side mounting	10 mm
— forwards	10 mm
— upwards	
— downwards	10 mm
— at the side	0 mm
• for grounded parts	40
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
• for live parts	40
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control circuit	screw-type terminals
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals
• of magnet coil	Screw-type terminals
type of connectable conductor cross-sections	
• for main contacts	
<ul> <li>— solid or stranded</li> </ul>	2x (1 35 mm²), 1x (1 50 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 25 mm²), 1x (1 35 mm²)

ennectable conductor cross-section for main contacts	for AWG cables for main contacts	2x (18 2), 1x (18 1)
• finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • 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 AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts • for successing • for auxiliary contacts • for auxiliary contacts • for successing • for auxiliary contacts • for auxiliary		ZA (10 Z), 1A (10 1)
connectable conductor cross-section for auxiliary contacts  • solid or stranded  • finely stranded with core end processing  type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded — finely stranded with core end processing  • for AWG cables for auxiliary contacts — for AWG cables for auxiliary contacts  • for awxiliary contacts — for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross-sections • for main contacts • for main contacts • for auxiliary contacts  • for auxiliary contacts • for main contacts • for main contacts • for main contacts • for main contacts • for savillary contacts  • for savillary contacts • for savillary contacts • for with light desarch according to IEC 60947-4-1 • positively friven operation according to IEC 60947-5-1 • positively friven operation according to IEC 60947-5-1 • suitablify for use safety-related switching OFF  sorvice life maximum  20 a  20 a  10 a  10 a  10 a  10 b  10 value with high demand rate according to SN 31920 • with high demand rate according to SN		1 35 mm <sup>2</sup>
* solid or stranded     * finely stranded with core end processing     * for exuitilary 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 AWG cables for auxiliary contacts     * solid or stranded     * finely stranded with core end processing     * for AWG cables for auxiliary contacts     * for awditiliary contacts		1 55 11111
type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts — finely stranded with core end processing • for AWG cables for auxiliary contacts — to for AWG cables for auxiliary contacts • for for AWG cables for auxiliary contacts • for for main contacts • for main contacts • for main contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for successing • for main contacts • for successing • for main contacts • for successing • for main contacts • for auxiliary contacts • for successing • for main contacts • for main conta	•	0.5 2.5 mm²
type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts  18 1 • for auxiliary contacts • for auxiliary auxiliary (auxiliary auxiliary auxiliary) • for auxiliary contacts • for auxiliary auxiliary (auxiliary auxiliary auxiliary) • for auxiliary contacts • for auxiliary auxiliary (auxiliary auxiliary auxili		
• for auxiliary contacts — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14)  AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 14  Selecty 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 9	·	0.5 2.5
solid or stranded finely stranded with core end processing for AWG cables for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14)  AWG number as coded connectable conductor cross section for main contacts for main contacts for auxiliary contact		
- finely stranded with core end processing • for AWG cables for auxiliary contacts  2x (20 1.5 mm²), 2x (0.75 2.5 mm²)  2x (20 16), 2x (18 14)  AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 • positively driven operation according to IEC 60947-5-1 • positively for use safety-related switching OFF  Yes suitability for use safety-related switching OFF  Yes 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 • 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  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  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  failure rate [FIT] with low demand rate accor	•	0v (0 F 4 F mans2) 0v (0 7F 2 F mans2)
AWG number as coded connectable conductor cross section  • for main contacts • for auxiliary contacts   **Total Contact according to IEC 60947-4-1 • 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  **Service life maximum  **Eves  **Every clife necessary  **Pes  **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 • with high demand rate according to SN 31920  **So 13849  **Every according to ISO 13849-1  **Overdimensioning according to ISO 13849-2 necessary  **Fes  **		
AWG number as coded connectable conductor cross section  • for main contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • mirror contact according to IEC 60947-4-1 • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 • suitable for safety function • suitable for safety-related switching OFF  yes 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 100 FIT  B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  device type according to ISO 13849-1  device type according to ISO 13849-1  safety device type according to IEC 61508-2  Type A  Electrical Safety  protection class IP on the front according to IEC 60529  finger-safe, for vertical contact from the front to contact from the front		
section  • for main contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts  **Torout 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  • suitable for safety function  **Service life maximum  **Does not safety related switching OFF  **Pes  **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  **Service life rate [FIT] with low demand rate according to SN 31920  **Sol 33849  **device type according to ISO 13849-1  **overdimensioning according to ISO 13849-2 necessary  **IEC 61508  **afety device type according to IEC 61508-2  **Type A  **Electrical Safety  **protection class IP on the front according to IEC 60529  **Inger-safe, for vertical contact from the front  **I	•	2X (20 16), 2X (18 14)
• for auxiliary contacts  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  * 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  soverdimensioning according to ISO 13849-1  overdimensioning according to IEC 61508-2  finger-safe, for vertical contact from the front according to IEC 60529  finger-safe, for vertical contact from the front  product function  Yes  **Ves  **Ve		
product function	for main contacts	18 1
product function	for auxiliary contacts	20 14
<ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> <li>suitabile for safety function</li> <li>Yes</li> <li>suitability for use safety-related switching OFF</li> <li>Yes</li> <li>service life maximum</li> <li>20 a</li> <li>test wear-related service life necessary</li> <li>Yes</li> <li>proportion of dangerous failures <ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>vill high demand rate according to SN 31920</li> <li>1000 000</li> </ul> </li> <li>B10 value with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>ISO 13849</li> <li>device type according to ISO 13849-1</li> <li>overdimensioning according to ISO 13849-2 necessary</li> <li>Yes</li> </ul> <li>IEC 61508</li> <li>safety device type according to IEC 61508-2</li> <li>Type A</li> <li>Electrical Safety</li> <li>protection class IP on the front according to IEC 60529</li> <li>finger-safe, for vertical contact from the front</li>	Safety related data	
positively driven operation according to IEC 60947-5-1	product function	
suitable for safety function     yes suitability for use safety-related switching OFF     yes service life maximum     20 a  test wear-related service life necessary     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     1000 000  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  IEC 61508  safety device type according to IEC 61508-2  Electrical Safety  protection class IP on the front according to IEC 60529  finger-safe, for vertical contact from the front front  in yes  Yes  IP20  touch protection on the front according to IEC 60529  finger-safe, for vertical contact from the front	<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes
suitability for use safety-related switching OFF 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 1000 000  failure rate [FIT] with low demand rate according to SN 31920 1000 000  failure rate [FIT] with low demand rate according to SN 31920 ISO 13849  device type according to ISO 13849-1 3 overdimensioning according to ISO 13849-2 necessary IEC 61508 safety device type according to IEC 61508-2 Type A  Electrical Safety  protection class IP on the front according to IEC 60529 finger-safe, for vertical contact from the front front	<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No
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  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  ISO 13849  device type according to ISO 13849-1  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  finger-safe, for vertical contact from the front	suitable for safety function	Yes
rest 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  B10 value 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  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  IEC 61508  safety device type according to IEC 61508-2  Electrical Safety  protection class IP on the front according to IEC 60529  finger-safe, for vertical contact from the front  for vertical contact from the front	suitability for use safety-related switching OFF	Yes
proportion of dangerous failures  • with low 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  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  IEC 61508  safety device type according to IEC 61508-2  Type A  Electrical Safety  protection class IP on the front according to IEC 60529  finger-safe, for vertical contact from the front	service life maximum	20 a
with low demand rate according to SN 31920     with high demand rate according to SN 31920     To with high demand rate according to SN 31920  ### B10 value with high demand rate according to SN 31920  ### B10 va	test wear-related service life necessary	Yes
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  ISO 13849 device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary IEC 61508 safety device type according to IEC 61508-2  Electrical Safety protection class IP on the front according to IEC 60529  Type A  Type A  Electrical Safety finger-safe, for vertical contact from the front	proportion of dangerous failures	
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  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 IP20  touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
failure rate [FIT] with low demand rate according to SN 31920  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 IP20  touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %
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 IP20  touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	B10 value with high demand rate according to SN 31920	1 000 000
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 IP20 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front		100 FIT
overdimensioning according to ISO 13849-2 necessary IEC 61508  safety device type according to IEC 61508-2  Electrical Safety protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  finger-safe, for vertical contact from the front	ISO 13849	
IEC 61508 safety device type according to IEC 61508-2 Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 IP20 finger-safe, for vertical contact from the front	device type according to ISO 13849-1	3
safety device type according to IEC 61508-2  Electrical Safety  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  finger-safe, for vertical contact from the front	overdimensioning according to ISO 13849-2 necessary	Yes
Electrical Safety  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  finger-safe, for vertical contact from the front	IEC 61508	
protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  finger-safe, for vertical contact from the front	safety device type according to IEC 61508-2	Type A
touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	Electrical Safety	
<u> </u>	protection class IP on the front according to IEC 60529	IP20
pprovals Certificates	touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
	Approvals Certificates	

General Product Approval



Confirmation







<u>KC</u>

General Product Approval

EMV

**Test Certificates** 

Marine / Shipping





Special Test Certificate

Type Test Certificates/Test Report





Marine / Shipping









Confirmation

other

Confirmation

Railway Dangerous goods

Environment



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)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2037-1AR64}$ 

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2037-1AR64

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1AR64

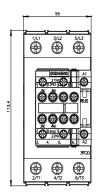
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2037-1AR64&lang=en

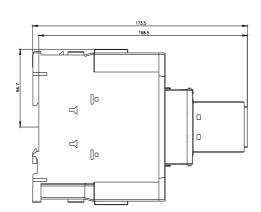
Characteristic: Tripping characteristics, I2t, Let-through current

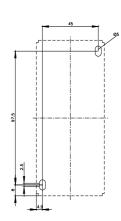
https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1AR64/char

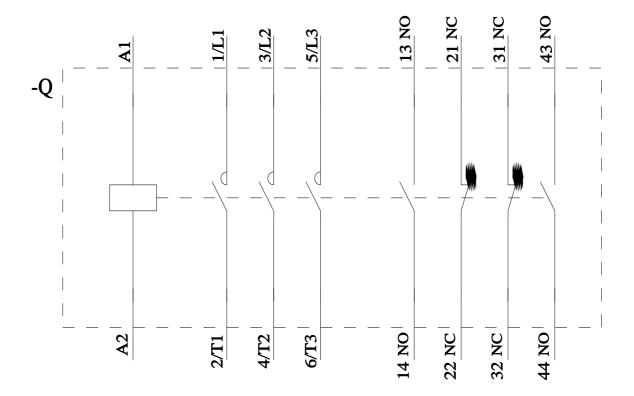
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-1AR64&objecttype=14&gridview=view1









last modified: 7/19/2024 🖸