## SIEMENS

## Data sheet

## 3RT2037-1NF30



power contactor, AC-3e/AC-3, 65 A, 30 kW / 400 V, 3-pole, 83-155 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2

1013	
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
<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
<ul> <li>without load current share typical</li> </ul>	2 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	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	7.7g / 5 ms, 4.5g / 10 ms
• at DC	7.7g / 5 ms, 4.5g / 10 ms
shock resistance with sine pulse	
• at AC	12g / 5 ms, 7g / 10 ms
● at DC	12g / 5 ms, 7g / 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)	10/01/2014
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 %

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> </ul>	80 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	80 A
— up to 690 V at ambient temperature 60 °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	05 A
- 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 70.4 A
at AC-5a up to 690 V rated value	70.4 A 53.9 A
<ul> <li>at AC-5b up to 400 V rated value</li> <li>at AC-6a</li> </ul>	55.9 A
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	56.9 A
— up to 400 V for current peak value n=20 rated value	56.9 A
— 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
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— 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
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	35 A
— at 60 V rated value	6 A
— at 220 V rated value	1 A
— at 440 V rated value	0.1 A
— at 600 V rated value	0.06 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	25 A
— at 220 V rated value	5 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	25 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.35 A
operating power	
<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- 4	
at 400 V rated value	14.7 kW
at 690 V rated value	20 kW
operating apparent power at AC-6a	
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	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	
• 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
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	45.3 kVA
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>	1 055 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	730 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 10 s switching at zero current maximum	520 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	336 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	272 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	1 500 1/h
• at DC	1 500 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-3e maximum • at AC-4 maximum	200 1/h
at AC-4 maximum Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	02 4EE V
• at 50 Hz rated value	83 155 V
at 60 Hz rated value	83 155 V
control supply voltage at DC	
rated value	83 155 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 50 Hz	0.8 1.1
design of the surge suppressor	with varistor
	1.5 A
inrush current peak duration of inrush current peak	50 µs
locked-rotor current mean value	0.45 A
	0.45 A 0.8 A
locked-rotor current peak	0.8 A 230 ms
duration of locked-rotor current	
holding current mean value	12 mA
apparent pick-up power of magnet coil at AC • at 50 Hz	40 VA
• at 60 Hz	40 VA
apparent holding power of magnet coil at AC	2)//4
• at 50 Hz	2 VA
• at 60 Hz	2 VA
closing power of magnet coil at DC	23 W
holding power of magnet coil at DC	1 W
closing delay	25 440 mg
• at AC	35 110 ms
• at DC	35 110 ms
opening delay	20 55 mg
• at AC	30 55 ms
• at DC	30 55 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	1
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
•	
operational current at AC-15	
•	10 A
operational current at AC-15	
• at 230 V rated value	10 A
<ul> <li>operational current at AC-15</li> <li>at 230 V rated value</li> <li>at 400 V rated value</li> </ul>	10 A 3 A
<ul> <li>operational current at AC-15</li> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> </ul>	10 A 3 A 2 A
<ul> <li>operational current at AC-15</li> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul>	10 A 3 A 2 A
<ul> <li>operational current at AC-15</li> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>operational current at DC-12</li> </ul>	10 A 3 A 2 A 1 A
<ul> <li>operational current at AC-15</li> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>operational current at DC-12</li> <li>at 24 V rated value</li> </ul>	10 A 3 A 2 A 1 A 10 A
operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • 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	10 A 3 A 2 A 1 A 10 A 6 A
operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • 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	10 A 3 A 2 A 1 A 10 A 6 A 6 A
operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • 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 410 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A
operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • 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	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A
operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 8 V rated value         • at 60 V rated value         • at 24 V rated value         • at 48 V rated value         • at 110 V rated value         • at 125 V rated value         • at 220 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A
operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 48 V rated value         • at 60 V rated value         • at 24 V rated value         • at 25 V rated value         • at 125 V rated value         • at 220 V rated value         • at 600 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A
operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 8 V rated value         • at 60 V rated value         • at 24 V rated value         • at 25 V rated value         • at 125 V rated value         • at 220 V rated value         • at 600 V rated value         • at 600 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A

- at CO V rated up to -	2.4
at 60 V rated value	2 A
at 110 V rated value	1A
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	65 A
• at 600 V rated value	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
<ul> <li>for 3-phase AC motor</li> </ul>	
— 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 / P600
Short-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
— 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)
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (415V,80kA)
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and
	backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
side-by-side mounting	Yes
height	114 mm
width	55 mm
depth	130 mm
required spacing	
with side-by-side mounting	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
<ul> <li>for grounded parts</li> </ul>	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
• for live parts	
— 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
<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 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)
connectable conductor cross-section for main contacts	

connectable conductor cross-section for auxiliary contacts     0.5 2.5 mm²       • solid or stranded     0.5 2.5 mm²       type of connectable conductor cross-sections     0.5 2.5 mm²       • for auxiliary contacts     2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)       - solid or stranded     2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)       - finely stranded with core end processing     2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)       - finely stranded with core end processing     2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)       - for auxiliary contacts     2x (20 16), 2x (18 14)       AWG number as coded connectable conductor cross section     18 1       • for main contacts     18 1       • for auxiliary contacts     20 14       Safety related data     1000 000       product function     1000 000       • mirror contact according to IEC 60947-4-1     Yes       • positively driven operation according to SN 31920     1000 000       proportion of dangerous failures     40 %       • with low demand rate according to SN 31920     73 %       • with low demand rate according to SN 31920     73 %       • with low demand rate according to IEC 60529     100 FIT       T1 value for proof test interval or service life according to IEC 60529     120       protection on the front according to IEC 60529     120       inger-safe, for vertical contact from	<ul> <li>finely stranded with core end processing</li> </ul>	1 35 mm²
efficiely stranded with core end processing     0.52.5 mm <sup>2</sup> type of connectable conductor cross-sections     -       • for auxiliary contacts     2x (0.51.5 mm <sup>3</sup> ), 2x (0.752.5 mm <sup>2</sup> )       - solid or stranded     2x (0.51.5 mm <sup>3</sup> ), 2x (0.752.5 mm <sup>2</sup> )       - for AVVG cables for auxiliary contacts     2x (2016), 2x (1814)       AWG number as coded connectable conductor cross section     2016), 2x (1814)       - for main contacts     181       - for auxiliary contacts     2014       Safety related data     2014       Product function     181       - positively driven operation according to IEC 60947-4-1     Yes       - positively driven operation according to SN 31920     1000 000       proportion of dangerous failures     40 %       - with high demand rate according to SN 31920     73 %       - failure rate [FIT] with low demand rate according to ISC 60529     100 FIT       11 value for proof test interval or service life according to IEC 60529     102 a       - for proof test interval or service life according to IEC 60529     1P20       touch protection on the front according to IEC 60529     IP20       touch protection on the front according to IEC 60529     IP20       touch protection on the front according to IEC 60529     IP20       touch protection on the front according to IEC 60529     IP20    <		
type of connectable conductor cross-sections         • for auxiliary contacts         - solid or stranded       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         - finely stranded with core end processing       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         • for AWG cables for auxiliary contacts       2x (20 16), 2x (18 14)         AWG number as coded connectable conductor cross section       18 1         • for nain contacts       18 1         • for auxiliary contacts       20 14         Safety related data       100 000         product function       1000 000         • mirror contact according to IEC 60947-4-1       Yes         • positively driven operation according to SN 31920       1 000 000         proportion of dangerous failures       73 %         • with high demand rate according to SN 31920       100 FIT         T1 value for proof test interval or service life according to IEC 60529       100 FIT         T1 value for proof test interval or service life according to IEC 60529       IP20         touch protection on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       Ip20         safety-related switching OFF       Yes         • safety-related switching OFF       Yes	solid or stranded	0.5 2.5 mm²
• for auxiliary contacts         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)           - finely stranded with core end processing         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)           • for AWG cables for auxiliary contacts         2x (20 16), 2x (18 14)           AWG number as coded connectable conductor cross section         2x (20 16), 2x (18 14)           AWG number as coded connectable conductor cross section         20 14           • for main contacts         18 1           • for main contacts         20 14           Safety related data         20 14           Product function         Yes           • mirror contact according to IEC 60947-4-1         Yes           • positively driven operation according to SN 31920         1000 000           proportion of dangerous failures         40 %           • with high demand rate according to SN 31920         40 %           • with high demand rate according to SN 31920         73 %           failure rate [FIT] with low demand rate according to IEC 60529         I00 FIT           T1 value for proof test interval or service life according to IEC 60529         IP20           touch protection on the front according to IEC 60529         Ip20           touch protection on the front according to IEC 60529         Inger-safe, for vertical contact from the front           suitability for use	<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
- solid or stranded2x (0.5 1.5 mm³), 2x (0.75 2.5 mm³)- finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)- for AWG cables for auxiliary contacts2x (0 16), 2x (18 14)AWG number as coded connectable conductor cross section- for main contacts- for main contacts18 1- for auxiliary contacts20 14Safety related data- for auxiliary contact according to IEC 60947-4-1Product function- for auxiliary contact according to IEC 60947-5-1- mirror contact according to IEC 60947-5-1NoB10 value with high demand rate according to SN 31920100 000proportion of dangerous failures- for 3 %- with high demand rate according to SN 31920100 FIT11 value for proof test interval or service life according to IEC 60529IP20protection class IP on the front according to IEC 60529IP20touch protection on the front according to IEC 60529IP20suitability for use • safety-related switching OFFYesCertificates/ approvalsYes	type of connectable conductor cross-sections	
	<ul> <li>for auxiliary contacts</li> </ul>	
• for AWG cables for auxiliary contacts       2x (20 16), 2x (18 14)         AWG number as coded connectable conductor cross section       • for main contacts         • for main contacts       18 1         • for auxiliary contacts       20 14         Safety related data       • for ouxiliary contacts         product function       • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1       No         B10 value with high demand rate according to SN 31920       1 000 000         proportion of dangerous failures       • with low demand rate according to SN 31920         • with high demand rate according to SN 31920       1000 FIT         T1 value for proof test interval or service life according to IEC 60529       IP20         failure rate [FIT] with low demand rate according to IEC 60529       IP20         touch protection on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       Inger-safe, for vertical contact from the front         suitability for use       • safety-related switching OFF       Yes         Certificates/ approvals       Yes	— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
AWG number as coded connectable conductor cross section       18 1         • for main contacts       20 14         Safety related data       20 14         product function       • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1       No         B10 value with high demand rate according to SN 31920       1 000 000         proprition of dangerous failures       40 %         • with low demand rate according to SN 31920       73 %         failure rate [FIT] with low demand rate according to SN 31920       1000 FIT         11 value for proof test interval or service life according to IEC 60529       IP20         fouch protection on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       IP20         suitability for use       • safety-related switching OFF       Yes         Sertificates/ approvals       Yes	<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
section       18 1         • for auxiliary contacts       20 14         Safety related data	<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)
• for auxiliary contacts       20 14         Safety related data		
Safety related data         product function         • mirror contact according to IEC 60947-4-1       Yes         • positively driven operation according to IEC 60947-5-1       No         B10 value with high demand rate according to SN 31920       1 000 000         proportion of dangerous failures	<ul> <li>for main contacts</li> </ul>	18 1
product function       Yes         • mirror contact according to IEC 60947-4-1       Yes         • positively driven operation according to IEC 60947-5-1       No         B10 value with high demand rate according to SN 31920       1 000 000         proportion of dangerous failures	<ul> <li>for auxiliary contacts</li> </ul>	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>No</li> <li>B10 value with high demand rate according to SN 31920</li> <li>1 000 000</li> <li>proportion of dangerous failures         <ul> <li>with low demand rate according to SN 31920</li> <li>40 %</li> <li>with high demand rate according to SN 31920</li> <li>T3 %</li> </ul> </li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>failure for proof test interval or service life according to IEC 60529</li> <li>protection class IP on the front according to IEC 60529</li> <li>fucch protection on the front according to IEC 60529</li> <li>suitability for use         <ul> <li>safety-related switching OFF</li> <li>Yes</li> </ul> </li> </ul>	Safety related data	
	product function	
B10 value with high demand rate according to SN 31920       1 000 000         proportion of dangerous failures       -         • with low demand rate according to SN 31920       40 %         • with high demand rate according to SN 31920       73 %         failure rate [FIT] with low demand rate according to SN 31920       100 FIT         T1 value for proof test interval or service life according to IEC 60529       20 a         protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         suitability for use       -         • safety-related switching OFF       Yes         Certificates/ approvals       Yes	<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes
proportion of dangerous failures       40 %         • with low demand rate according to SN 31920       40 %         • with high demand rate according to SN 31920       73 %         failure rate [FIT] with low demand rate according to SN 31920       100 FIT         T1 value for proof test interval or service life according to IEC 61508       20 a         protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         suitability for use       • safety-related switching OFF         • safety-related switching OFF       Yes	<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No
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     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 IEC     for yell according to IEC 60529     for the front according to IEC 60529     for vertical contact from the front     suitability for use         e safety-related switching OFF         Yes     Certificates/ approvals	B10 value with high demand rate according to SN 31920	1 000 000
with high demand rate according to SN 31920 73 % failure rate [FIT] with low demand rate according to SN 31920 100 FIT T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 suitability for use	proportion of dangerous failures	
failure rate [FIT] with low demand rate according to SN 31920       100 FIT         T1 value for proof test interval or service life according to IEC 61508       20 a         protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         suitability for use       • safety-related switching OFF       Yes         Certificates/ approvals       Yes	<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
T1 value for proof test interval or service life according to IEC       20 a         61508       20 a         protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         suitability for use       • safety-related switching OFF       Yes         Certificates/ approvals       Ves	<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %
61508       IP20         protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         suitability for use       • safety-related switching OFF         Yes       Certificates/ approvals	failure rate [FIT] with low demand rate according to SN 31920	100 FIT
touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         suitability for use       • safety-related switching OFF         Yes       Yes         Certificates/ approvals       Yes		20 a
suitability for use     • safety-related switching OFF       • safety-related switching OFF     Yes	protection class IP on the front according to IEC 60529	IP20
safety-related switching OFF Yes Certificates/ approvals	touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Certificates/ approvals	suitability for use	
	<ul> <li>safety-related switching OFF</li> </ul>	Yes
General Product Approval	Certificates/ approvals	
	General Product Approval	

		<u>Confirmation</u>	(UL)	<u>Miscellaneous</u>	<u>KC</u>
General Product Approval	EMC	Functional Safety/Safety of Ma- chinery	Declaration of Confor	mity	Test Certificates
EHC	RCM	<u>Type Examination Cer-</u> tificate	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report
Test Certificates	Marine / Shipping				
<u>Special Test Certific-</u> <u>ate</u>	ABS	B U REAU VERITAS		Lloyd's Register us	PRS
Marine / Shipping		other		Railway	Dangerous Good
RINA	RMRS	<u>Confirmation</u>	<u>Confirmation</u>	Vibration and Shock	Transport Information
Environment					

urther information		

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2037-1NF30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2037-1NF30

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1NF30

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

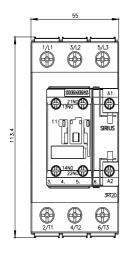
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2037-1NF30&lang=en

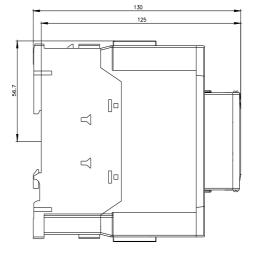
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

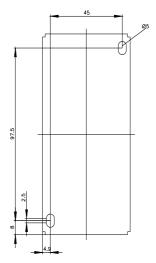
https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1NF30/char

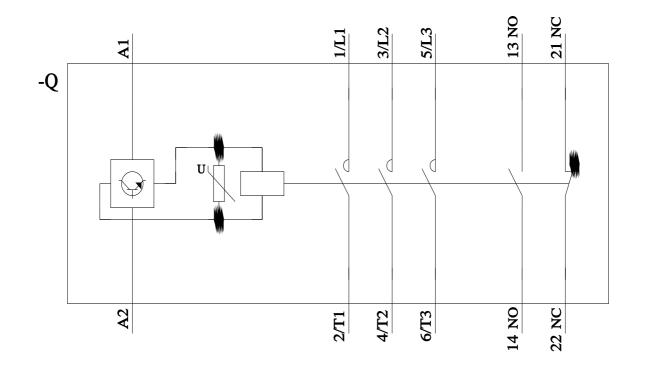
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-1NF30&objecttype=14&gridview=view1









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