# SIEMENS

### Data sheet

## 3RT2016-2AN22



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 220 V AC, 50/60 Hz, auxiliary contacts: 1 NC, spring-loaded terminal, size: S00

236 43	
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S00
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>	0.9 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.3 W
<ul> <li>without load current share typical</li> </ul>	1.1 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
<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	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	30 000 000
<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)	10/01/2009
Weight	0.253 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C
<ul> <li>during storage</li> </ul>	-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 eq] total	39.6 kg
global warming potential [CO2 eq] during manufacturing	1.18 kg
global warming potential [CO2 eq] during operation	38.5 kg
global warming potential [CO2 eq] after end of life	-0.155 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	
at AC-1 at 400 V at ambient temperature 40 °C rated value	22 A
• at AC-1	22.4
— up to 690 V at ambient temperature 40 °C rated value	22 A
<ul> <li>up to 690 V at ambient temperature 60 °C rated value</li> <li>at AC-3</li> </ul>	20 A
• at AC-3 — at 400 V rated value	9 A
— at 500 V rated value	9A 7.7 A
— at 690 V rated value	6.7 A
• at AC-3e	
— at 400 V rated value	9 A
— at 500 V rated value	7.7 A
— at 690 V rated value	6.7 A
• at AC-4 at 400 V rated value	8.5 A
• at AC-5a up to 690 V rated value	19.4 A
• at AC-5b up to 400 V rated value	7.4 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	5.3 A
— up to 400 V for current peak value n=20 rated value	5.3 A
— up to 500 V for current peak value n=20 rated value	5.3 A
— up to 690 V for current peak value n=20 rated value	5 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	3.5 A
— up to 400 V for current peak value n=30 rated value	3.5 A
— up to 500 V for current peak value n=30 rated value	3.6 A
— up to 690 V for current peak value n=30 rated value	3.3 A
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	4.1 A
• at 690 V rated value	3.3 A
operational current	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
with 2 current paths in series at DC-1	20.4
— at 24 V rated value	20 A
- at 60 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.7 A

with 2 surrant action in carias at DC 4	
with 3 current paths in series at DC-1     — at 24 V rated value	20 A
— at 60 V rated value	20 A 20 A
	20 A 20 A
— at 110 V rated value	
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
at 1 current path at DC-3 at DC-5	20 A
— at 24 V rated value	20 A
— at 60 V rated value — at 110 V rated value	0.5 A
	0.15 A
with 2 current paths in series at DC-3 at DC-5     at 24 V reted value	20 A
— at 24 V rated value	5 A
— at 60 V rated value	
— at 110 V rated value	0.35 A
with 3 current paths in series at DC-3 at DC-5     at 24 V reted value	20 A
— at 24 V rated value	20 A 20 A
— at 60 V rated value	
— at 110 V rated value	20 A 1.5 A
— at 220 V rated value	1.5 A 0.2 A
— at 440 V rated value	
- at 600 V rated value	0.2 A
• at AC-2 at 400 V rated value	4 kW
• at AC-3	4 KVV
<ul> <li>at AC-3</li> <li>— at 230 V rated value</li> </ul>	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	4 KW
— at 690 V rated value	5.5 kW
• at AC-3e	5.5 KVV
- at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	4 kW
— at 600 V rated value	5.5 kW
operating power for approx. 200000 operating cycles at AC-	0.0 KW
4	
• at 400 V rated value	2 kW
• at 690 V rated value	2.5 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	2 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	3.6 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	4.6 kVA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	5.9 kVA
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	1.3 kVA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	2.4 kVA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	3.1 kVA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	4 kVA
short-time withstand current in cold operating state up to 40 °C	
Imited to 1 s switching at zero current maximum	155 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 5 s switching at zero current maximum	111 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 10 s switching at zero current maximum	86 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 30 s switching at zero current maximum	66 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 60 s switching at zero current maximum	55 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	40.000 4/5
• at AC	10 000 1/h
operating frequency	1,000,1/b
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h 750 1/h
• at AC-3 maximum	750 1/h

+ AC 2- maxim	750.4/b			
• at AC-3e maximum	750 1/h			
• at AC-4 maximum	250 1/h			
Control circuit/ Control				
type of voltage of the control supply voltage	AC			
control supply voltage at AC				
• at 50 Hz rated value	220 V			
• at 60 Hz rated value	220 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	27 VA			
• at 60 Hz	24.3 VA			
inductive power factor with closing power of the coil				
at 50 Hz	0.8			
• at 50 Hz	0.75			
apparent holding power of magnet coil at AC	0.10			
apparent holding power of magnet coll at AC     • at 50 Hz	4.2 VA			
• at 50 Hz • at 60 Hz	4.2 VA 3.3 VA			
	0.0 VA			
inductive power factor with the holding power of the coil	0.25			
• at 50 Hz	0.25			
• at 60 Hz	0.25			
closing delay	0.05			
• at AC	9 35 ms			
opening delay				
• at AC	4 15 ms			
arcing time	10 15 ms			
control version of the switch operating mechanism	Standard A1 - A2			
Auxiliary circuit				
number of NC contacts for auxiliary contacts instantaneous contact	1			
operational current at AC-12 maximum	10 A			
operational current at AC-15				
<ul> <li>at 230 V rated value</li> </ul>	10 A			
• at 400 V rated value	3 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 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul>	3 A 2 A			
<ul> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul> operational current at DC-12	3 A 2 A 1 A			
<ul> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul> <b>operational current at DC-12</b> <ul> <li>at 24 V rated value</li> </ul>	3 A 2 A 1 A 10 A			
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<ul> <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 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 48 V rated value</li> <li>at 20 V rated value</li> <li>at 215 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 24 V rated value</li> <li>at 25 V rated value</li> <li>at 260 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 125 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 125 V rated value</li> <li>at 125 V rated value</li> <li>at 125 V rated value</li> <li>at 60 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> </ul> </li> </ul>	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A			
<ul> <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 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 24 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 125 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 125 V rated value</li> <li>at 48 V rated value</li> <li>at 48 V rated value</li> <li>at 480 V rated value</li> <li>at 480 V rated value</li> <li>at 480 V rated value</li> <li>at 600 V rated value</li> </ul> </li> </ul>	3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 2 A 1 A 0.15 A 10 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)			
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<ul> <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 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 24 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 125 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 125 V rated value</li> <li>at 48 V rated value</li> <li>at 48 V rated value</li> <li>at 480 V rated value</li> <li>at 480 V rated value</li> <li>at 480 V rated value</li> <li>at 600 V rated value</li> </ul> </li> </ul>	3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 2 A 1 A 0.15 A 10 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 7.6 A			

— at 110/120 V rated value	0.33 hp			
— at 230 V rated value				
	1 hp			
• for 3-phase AC motor	0.64			
- at 200/208 V rated value	2 hp			
- at 220/230 V rated value	3 hp			
- at 460/480 V rated value	5 hp			
— at 575/600 V rated value	7.5 hp			
contact rating of auxiliary contacts according to UL Short-circuit protection	A600 / Q600			
design of the miniature circuit breaker for short-circuit protection	C abarratariatio: 10 A: 0 4 kA			
of the auxiliary circuit up to 230 V	C characteristic: 10 A; 0.4 kA			
design of the fuse link				
for short-circuit protection of the main circuit	-C- 254 (CO0)/ 400//4) -M- 204 (CO0)/ 400//4) DC00- 254 (445)/ 20//4)			
<ul> <li>— with type of coordination 1 required</li> <li>with type of coordination 2 required</li> </ul>	gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)			
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)			
• for short-circuit protection of the auxiliary switch required	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 side-by-side mounting	Yes			
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
height	70 mm			
width	45 mm			
depth	73 mm			
required spacing				
<ul> <li>with side-by-side mounting</li> </ul>				
— 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			
<ul> <li>for live parts</li> </ul>				
— forwards	10 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	6 mm			
Connections/ Terminals				
type of electrical connection				
<ul> <li>for main current circuit</li> </ul>	spring-loaded terminals			
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals			
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Spring-type terminals			
of magnet coil	Spring-type terminals			
type of connectable conductor cross-sections				
<ul> <li>for main contacts</li> </ul>				
— solid	2x (0.5 4 mm²)			
— solid or stranded	2x (0,5 4 mm <sup>2</sup> )			
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm²)			
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm²)			
for AWG cables for main contacts	2x (20 12)			
connectable conductor cross-section for main contacts				
• solid	0.5 4 mm <sup>2</sup>			
• stranded	0.5 4 mm <sup>2</sup>			
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²			
<ul> <li>finely stranded without core end processing</li> </ul>	0.5 2.5 mm²			
connectable conductor cross-section for auxiliary contacts				
<ul> <li>solid or stranded</li> </ul>	0.5 4 mm²			
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²			

Provide connectable conductor cross-sections     2x (0.64 mm <sup>2</sup> )       • for auxiliary contracts     2x (0.64 mm <sup>2</sup> )       • of auxiliary contracts     2x (0.62 5 mm <sup>2</sup> )       • of work code connectable conductor cross     2x (0.62 5 mm <sup>2</sup> )       • of work code connectable conductor cross     2x (0.62 5 mm <sup>2</sup> )       • of work code connectable conductor cross     2012       • of work code connectable conductor cross     10	<ul> <li>finely stranded w</li> </ul>	ithout core end processi	na	0.5 2.5 mm²			
<ul> <li>• For subsite protected in the order and processing 2x (0.5 4 mm?) 2x (0.5 4 mm?) 2x (0.5 4 mm?) 2x (0.5 2.5 mm?) 2x (0.5 2</li></ul>	,	•	0	0.0 2.0 mm			
<ul> <li>- solid or stranded</li> <li>- solid or stranded</li> <li>- inely stranded without core and processing</li> <li>- inely stranded without core and processing</li> <li>- 2 (20 12)</li> <li>- 2 (20 12)</li></ul>							
<ul> <li>Inder standed with core ond processing</li> <li>Inder standed with core ond processing to IEC 60523</li> <li>Inder standed with core ond processing to IEC 60523</li> <li>Inder standed with core ond processing to IEC 60523</li> <li>Inder standed with core ond processing to IEC 60523</li> <li>Inder standed with core ond processing to IEC 60523</li> <li>Inder standed with core ond procescond proce</li></ul>	-			$2x (0.5 4 \text{ mm}^2)$			
			sina				
e. for AVMC cables for auxiliary contacts     2x (20 12)       Weighting as coded connectable conductor cross entraine contacts     20 12       1 or raine contacts     20 12       2 or raine contact according to IEC 60947-5-1     Yes       - systely when operation according to IEC 60947-5-1     Yes       - systely when operation according to ISN 1920     40 %       - with low demand rate according to ISN 1920     73 %       2 or value conting to ISO 13849-1     3       2 or value conting to ISO 13849-1     3       2 or value conting to ISO 13849-1     3       2 or value with high demand rate according to ISN 1920     73 %       2 or value with high demand rate according to ISN 1920     1000 FT       2 0 3446     640 %     1000 FT       6 0 3456     1000 FT       2 0 3450     1000	2		0				
AWG number as coded connectable conductor cross section     20     12       1 or main contacts     12     12       1 or main contact	-		cessing				
iection ierraioontactis ierra		-	or cross	2X (20 12)			
<ul> <li>i or auxiliary contacts</li> <li>20 12</li> <li>Strety related data</li> <li>initro contact according to IEC 60947-5-1</li> <li>initro contact according to IEC 60947-5-1</li> <li>suitability for use safely-inaction</li> <li>suitability for use safely-inaction of angerous failures</li> <li>with high demand rate according to SN 31920</li> <li>100 FIT</li> <li>suitability for use safely-inaction of the according to SN 31920</li> <li>100 FIT</li> <li>suitability for use safely inaction is a safe according to SN 31920</li> <li>100 FIT</li> <li>suitability for use safely inaction is a safe according to SN 31920</li> <li>100 FIT</li> <li>suitability for use safely inaction is a safe according to SN 31820</li> <li>suitability for use safe according to IEC 61808-2</li> <li>restret FIT with low demand rate according to IEC 61808-2</li> <li>restret FIT with low demand rate according to IEC 61808-2</li> <li>restret FIT with low demand rate according to IEC 61808-2</li> <li>restret FIT with low demand rate according to IEC 61808-2</li> <li>restret FIT with low demand rate according to IEC 61808-2</li> <li>restret FIT with low demand rate according to IEC 61808-2</li> <li>restret FIT with low demand rate according to IEC 61808-2</li> <li>restret FIT with low demand rate according to IEC 61808-2</li> <li>restret FIT with low demand rate according to IEC 61808-2</li> <li>restret FIT with low demand rate according to IEC 61808-2&lt;</li></ul>			01 01033				
Safety related data     product function          • infirer contrals according to IEC 60947-5-1       • suitable for safety function       • suitable       • safety device type according to IEC 61508-2       • Prove       • Eacted all Safety       • Protection class IP on the front according to IEC 60529       • Field       • Safety device type saccording to IEC 60529       • Field       • Safety device type saccording to IEC 60529       • Field       • Safety       • Safety device type saccording to IEC 60529       • Field       • Safety       • Saf	<ul> <li>for main contacts</li> </ul>	3		20 12			
preduct function        initror contact according to IEC 80947-4-1       No       isuatable for safety function       isuatable for safety function       isuatable for safety function       20 a       test war-rotated service life maximum       1000 EUT       3       vervice life maximum       100 FIT       100 FIT       100 FIT       100 FIT       100 FIT	<ul> <li>for auxiliary containing</li> </ul>	acts		20 12			
<ul> <li>mirror contact according to IEC 60947-4-1</li> <li>No</li> <li>suitable for safety function</li> <li>Suitable for safety function<!--</td--><td>Safety related data</td><td></td><td></td><td></td><td></td><td></td></li></ul>	Safety related data						
<ul> <li>e. positively driven operation according to IEC 60947-5-1</li> <li>Ves</li> <li>subable for safety function</li> <li>Yes</li> <li>propertion of diagerous failures</li> <li>e. with low demand rate according to SN 31920</li> <li>for value with high demand rate according to SN 31920</li> <li>for value with high demand rate according to SN 31920</li> <li>for value with high demand rate according to SN 31920</li> <li>for value with high demand rate according to SN 31920</li> <li>for value with high demand rate according to SN 31920</li> <li>for value with high demand rate according to SN 31920</li> <li>for value with high demand rate according to SN 31920</li> <li>for value with high demand rate according to SN 31920</li> <li>for value with high demand rate according to SN 31920</li> <li>for value with high demand rate according to SN 31920</li> <li>for value with high demand rate according to SN 31920</li> <li>for value with high demand rate according to SN 31920</li> <li>for value with high demand rate according to EC 60529</li> <li>for value with expression in according to IEC 61508-2</li> <li>for value with expression in according to IEC 60529</li> <li>for value with expression in the front according to IEC 60529</li> <li>for value with expression in the front according to IEC 60529</li> <li>for value with expression</li> <li>for value with expression</li> <li>for the front according to IEC 60529</li> <li></li></ul>	product function						
<ul> <li>e) estively driven operation according to IEC 60947-5-1 Yes</li> <li>e) ulable for safely function Yes</li> <li>exervice Iffe maximum 200</li> <li>ex</li></ul>	•	cording to IEC 60947-4-	1	Yes			
<ul> <li>suitable for safety function</li> <li>ves suitable for safety function</li> <li>suitable for</li></ul>		•		No			
suitability for use safety-related switching OFF 20 a test wear-leaded service life maximum 20 a test wear-leaded service life maxessary Yes proportion of dangerous failures 40 % 73 % 73 % 73 % 73 % 73 % 73 % 73 % 7							
service life maximum       20 a         test war-related service life necessary       Yes         proportion of diagrous failures       40 %         • with low demand rate according to SN 31920       40 %         B10 value with ligh demand rate according to SN 31920       73 %         S01 3849       1000 000         device type according to ISO 13849-1       3         S01 3849       3         device type according to ISO 13849-2 necessary       Yes         JEC 61500       JSD 13849-2 necessary         Vers       Yes         protection class IP on the front according to IEC 61508-2       Type A         Electrical Safe       IP20         protection class IP on the front according to IEC 60529       IP20         fourther protection on the front according to IEC 60529       IP20         fourther protection on the front according to IEC 60529       IP20         foreral Product Approval       EMV         General Product Approval       Image: Safet for vertical contact from the front according to IEC 60529         for Variance       Image: Safet for vertical contact from the front according to IEC 60529         for Variance       Image: Safet for vertical contact from the front according to IEC 60529         for Variance       Image: Safet for vertical contact from the front according to IEC		-					
test wear-related service life necessary       Yes         proportion of dangerous failures       40 %         • with low demand rate according to SN 31920       73 %         B10 value with high demand rate according to SN 31920       1000 000         Failure 78t [FT] with low demand rate according to SN 31920       1000 000         Failure 78t [FT] with low demand rate according to SN 31920       0 FT         SO 13849       0         device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         EEC 61508       safety device type according to IEC 61508-2       Type A         Electrical Safety       protection on the front according to IEC 60529       IP20         protection on the front according to IEC 60529       IP20       touch protection on the front according to IEC 60529         General Product Approval       EMV       Test Certificates       Marine / Shipping         General Product Approval       EMV       Test Certificates       Marine / Shipping         Marine / Shipping       Lipsic       Special Test Certificates       Special Test Certificates       Special Test Certificates         Marine / Shipping       Lipsic       Special Test Certificates       Special Test Certificates       Special Test Certificates       Special Test Certificates      <		loidtod officining of t					
proportion of dangerous failures     40 %       • with how demand rate according to SN 31920     40 %       • with high demand rate according to SN 31920     1000 000       failure rate [FT] with low demand rate according to SN 31920     1000 000       failure rate [FT] with low demand rate according to SN 31920     1000 FT       100 FT     3     0000       failure rate [FT] with low demand rate according to SN 31920     1000 FT       101 FT     3     0000       cevice type according to ISO 13849-1     3       0 verdimensioning according to IEC 61508-2     Type A       Electrical Safety     Type A       protection class IP on the front according to IEC 60529     finger-safe, for vertical contact from the front       Approval     Confirmation       Coneral Product Approval     ENV       Confirmation     Special Test Centificates       General Product Approval     If you Test Centificates       Confirmation     Special Test Centificates       Marine / Shipping     If you Test Centificates       Marine / Shipping     Special Test Centificates       Marine / Shipping     If you Test Centificates       Marine / Shipping     Special Test Centificates       Image: State Stat		ice life necessary					
<ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>Ya %</li> <li>Porvative With high demand rate according to SN 31920</li> <li>falure rate [FIT] with low demand rate according to SN 31920</li> <li>for Value With high demand rate according to SN 31920</li> <li>for Value With high demand rate according to SN 31920</li> <li>for Value With high demand rate according to SN 31920</li> <li>for Value With high demand rate according to SN 31920</li> <li>for Value With high demand rate according to SN 31920</li> <li>for Value With high demand rate according to SN 31920</li> <li>for Value With high demand rate according to ISC 013849-1</li> <li>goverdimensioning according to ISC 013849-2 nocessary</li> <li>Yes</li> <li>FC 61508</li> <li>safety device type according to ISC 61508-2</li> <li>Type A</li> <li>Electrical Safety</li> <li>protection of the front according to IEC 60529</li> <li>for vertical contact from the front</li> <li>confirmation</li> <li>confirmation</li> <li>for vertical contact from the front</li> <li>for vertical contact from</li></ul>							
• with high demand rate according to SN 31920       73 %         BT0 value with high demand rate according to SN 31920       1000 000         failure rate [FT] with low demand rate according to SN       100 FT         ISO 13849       3         device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         EC 61508       ype A         safety device type according to IEC 61508-2       Type A         Electrical Safety       IP20         protection class IP on the front according to IEC 60529       Inger-safe, for vertical contact from the front         Approvals Certificates       Image-safe, for vertical contact from the front         General Product Approval       Image-safe, for vertical contact from the front         General Product Approval       Image-safe, for vertical contact from the front         EC 61508       Image-safe, for vertical contact from the front         General Product Approval       Image-safe, for vertical contact from the front         EC 61508       Image-safe, for vertical contact from the front         EC 61508       Image-safe, for vertical contact from the front         General Product Approval       Image-safe, for vertical contact         EC 61508       Image-safe, for vertical contact       Image-safe, for vertical contact <td< td=""><td></td><td></td><td>920</td><td>40 %</td><td></td><td></td></td<>			920	40 %			
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         1820       190 According to ISO 13849-1         1820       1920         1820       100 FIT         1920       100 FIT         1920       100 FIT         1920       100 FIT </td <td></td> <td>0</td> <td></td> <td></td> <td></td> <td></td>		0					
failure rate [FIT] with low demand rate according to SN     100 FIT       SI23349     3       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     rester device type according to IEC 61508-2     Type A       Electrical Safety     modernal contact from the front     modernal contact from the front       Approvals Certificates     General Product Approval     KC       Confirmation     Confirmation     Marine / Shipping       KC     Test Certificates     Special Test Certificate       Centernal Product Approval     EMV     Test Certificates       Marine / Shipping     KC     Special Test Certificate       Marine / Shipping     Special Test Certificate     Special Test Certificate       Marine / Shipping     Special Test Certificate     Special Test Certificate       Marine / Shipping     Special Test Certificate     Special Test Certificate       Marine / Shipping     Special Test Certificate     Special Test Certificate       Marine / Shipping     Special Test Certificate     Special Test Certificate       Marine / Shipping     Special Test Certificate     Special Test Certificate       Marine / Shipping     Special Test Certificate     Special Test Ce		•					
31920       ISO 13849       3         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       IP20         touch protection on the front according to IEC 60529       Image-safe, for vertical contact from the front         Approvals       Confirmation       KC         General Product Approval       EMV       Test Certificates         Marine / Shipping       KC       Image-safe, for vertical Certificates         Marine / Shipping       Image-safe, for vertical Certificates       Image-safe, for vertical Certificates         Marine / Shipping       Image-safe, for vertical Certificates       Image-safe, for vertical Certificates         Marine / Shipping       Image-safe, for vertical Certificates       Image-safe, for vertical Certificates         Marine / Shipping       Image-safe, for vertical Certificates       Image-safe, for vertical Certificates       Image-safe, for vertical Certificates         Image-safe       Image-safe, for vertical Certificates       Image-safe, for vertical Certificates       Image-safe, for vertical Certificates       Image-safe, for verti							
device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         IEC 61508       Safety device type according to ISO 13849-2 necessary       Yes         safety device type according to IEC 61508-2       Type A         Electrical Safety       intervention of the front according to IEC 60529       Intervention of the front according to IEC 60529         touch protection on the front according to IEC 60529       Intervention of the front according to IEC 60529       Intervention of the front according to IEC 60529         General Product Approval       Confirmation       KC         General Product Approval       Image: safe, for vertical contact from the front according to IEC 60529       KC         General Product Approval       Image: safe for vertical contact from the front according to IEC 60529       KC         General Product Approval       Image: safe for vertical contact from the front according to IEC 60529       KC         General Product Approval       Image: safe for vertical contact from the front according to IEC 60529       Image: safe for vertical contact from the front according to IEC 60529         Image: Safe for vertical Confirmation       Image: Safe for vertical contact from the front according to IEC 60529       Image: Safe for vertical contact from the front according to IEC 60529         Image: Safe for vertical Confirmation       Image: Safe for vertical contact for vertical contact from the front acc				100 FT			
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       IP20         Approvals Certificates       General Product Approval         General Product Approval       Confirmation         General Product Approval       EMV         Test Certificates       Marine / Shipping         KC       Special Test Certificates         Marine / Shipping       Type Test Certificates         Marine / Shipping       Other         Image: State of the stat	ISO 13849						
Ves         Ves         Ves         Ves         Ves         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         IP20         Confirmation         Approvals Certificates         General Product Approval         Confirmation         Envice         Optimation         Confirmation         Special Test Certific:         Confirmation         Confirmation	device type according	to ISO 13849-1		3			
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         Approvals Cortificates       General Product Approval       EMV         Ceneral Product Approval       EMV       Test Certificates         Marine / Shipping       Type Test Certificates ates       Special Test Certificates         Marine / Shipping       Type Test Certificates ates       Special Test Certificates         Marine / Shipping       EMV       Type Test Certificates         Marine / Shipping       Special Test Certificates       Special Test Certificates         Marine / Shipping       Special Test Certificates       Special Test Certificates         Marine / Shipping       Special Test Certificates       Special Test Certificates         Marine / Shipping       Special Test Certificates       Special Test Certificates         Marine / Shipping       Special Test Certificates       Special Test Certificates         Marine / Shipping       Special Test Certificates       Special Test Certificates         Marine / Shipping       Special Test Certificates       Special Test Certificates         Marine / Shipping <t< td=""><td></td><td></td><td>necessary</td><td>Yes</td><td></td><td></td></t<>			necessary	Yes			
Electrical Safety       P20         protection class IP on the front according to IEC 60529       IP20         Approvals Certificates       Inger-safe, for vertical contact from the front         Ceneral Product Approval       Confirmation         General Product Approval       EMV         Test Certificates       Marine / Shipping         Image: Safety       Image: Safety			·				
Electrical Safety       P20         protection class IP on the front according to IEC 60529       IP20         Approvals Certificates       Inger-safe, for vertical contact from the front         Ceneral Product Approval       Confirmation         General Product Approval       EMV         Test Certificates       Marine / Shipping         Image: Safety       Image: Safety	safety device type acc	cording to IEC 61508-2		Туре А			
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         Approvals Certificates       General Product Approval       EMV       Confirmation       KC         General Product Approval       EMV       Test Certificates       Marine / Shipping       KC         General Product Approval       EMV       Test Certificates       Marine / Shipping       KC         Marine / Shipping       EMV       Test Certificates       Marine / Shipping       Image: Safe from the from		<b>9</b>		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         Approvals Certificates       General Product Approval       Confirmation       CC         General Product Approval       COnfirmation       CC       CC         General Product Approval       EMV       Test Certificates       Marine / Shipping         Confirmation       Type Test Certificates       Marine / Shipping       CONFIRMENT         Marine / Shipping       Type Test Certificates       Marine / Shipping       CONFIRMENT         Marine / Shipping       Type Test Certificates       Special Test Certificates       CONFIRMENT         Marine / Shipping       Type Test Certificates       Special Test Certificates       CONFIRMENT       CONFIRMENT         Marine / Shipping       EMV       Test Certificates       Special Test Certificates       CONFIRMENT       CONFIRMENT         Marine / Shipping       EME       Type Test Certificates       Special Test Certificates       CONFIRMENT       Confirmation         Marine / Shipping       EME       Special Test Certificates       Confirmation       Confirmation         Marine / Shipping       EME       EME       Special Test Certificates       Confirmation         EME       EME       EME       Special Test Certificates		the front according to	IEC 60529	IP20			
Approvals Certificates         Ceneral Product Approval       KC         Ceneral Product Approval       Confirmation       EEC							
General Product Approval         Cccc       Confirmation       Ccc       KC         General Product Ap- proval       EMV       Test Certificates       Marine / Shipping         Efficient       Confirmation       Special Test Certific- ates/Test Report       Special Test Certific- ate       Confirmation       Confirmation         Marine / Shipping       Image: Confirmation       Special Test Certific- ates/Test Report       Special Test Certific- ate       Confirmation         Marine / Shipping       Image: Confirmation       Special Test Certific- ates/Test Report       Special Test Certific- ate       Confirmation         Marine / Shipping       Image: Confirmation       Special Test Certific- ates/Test Report       Special Test Certific- ate       Confirmation         Marine / Shipping       Image: Confirmation       Image: Confirmation       Confirmation         Image: Confirmation       Image: Confirmation       Image: Confirmation         Image: Confirmation       Image: Confirmation       Image: Confirmation							
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proval       Linv       Type Test Certific- ates/Test Report       Special Test Certific- ate		UK CA	<u>Confirmatio</u>	CE	Ű	KC	
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Image: DNV     Image: DNV <td>EHC</td> <td>RCM</td> <td></td> <td></td> <td>ABS</td> <td>B UREAU VERITAS</td>	EHC	RCM			ABS	B UREAU VERITAS	
DNV LRS PRS RINA RMRS	Marine / Shipping					other	
other Railway Environment		Lloyds Register us	PRS	RINA	RMRS	<u>Confirmation</u>	
	other		Railway	Environment			

#### **Miscellaneous**

**Confirmation** 

Special Test Certificate



Environmental Confirmations

#### **Further information**

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=3RT2016-2AN22

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2016-2AN22

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-2AN22

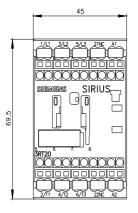
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

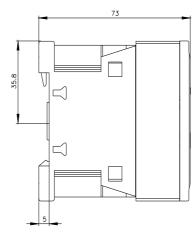
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2016-2AN22&lang=en

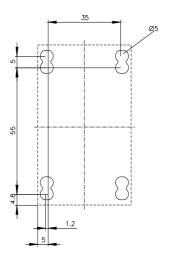
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

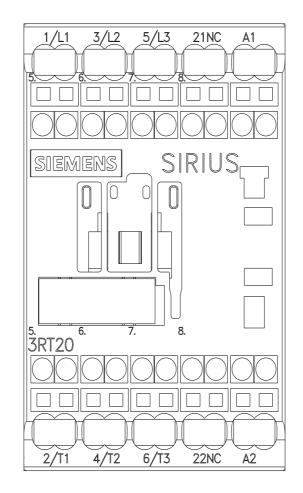
https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-2AN22/char Further characteristics (e.g. electrical endurance, switching frequency)

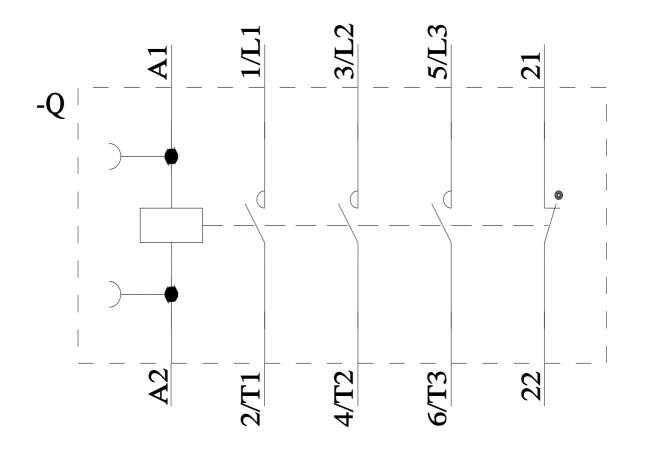
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2016-2AN22&objecttype=14&gridview=view1











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