## SIEMENS

## Data sheet

## 3RT2028-2XG40-0LA2



traction contactor, AC-3e/AC-3, 38 A, 18.5 kW / 400 V, 3-pole, 125 V DC, 0.7-1.25\* Us, electronic drive, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, spring-loaded terminal, size: S0

product brand name	SIRIUS
product designation	Power contactor
design of the product	With extended operating range
product type designation	3RT2
General technical data	
size of contactor	SO
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>	1.6 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 DC	10g / 5 ms, 7,5g / 10 ms
shock resistance with sine pulse	
• at DC	15g / 5 ms, 10g / 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)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-40 +70 °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	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated</li> </ul>	50 A
value	
• at AC-1	
<ul> <li>— up to 690 V at ambient temperature 40 °C rated value</li> </ul>	50 A
— up to 690 V at ambient temperature 60 °C rated	42 A
value	
<ul> <li>at AC-2 at 400 V rated value</li> </ul>	38 A
• at AC-3	
— at 400 V rated value	38 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
• at AC-3e	
— at 400 V rated value	38 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
• at AC-4 at 400 V rated value	22 A
minimum cross-section in main circuit	
at maximum AC-1 rated value	10 mm <sup>2</sup>
at maximum lth rated value	10 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	12 A
at 690 V rated value	12 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1A
— 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	35 A
— at 110 V rated value	35 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	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A
	1.4 A
— at 600 V rated value	
<ul> <li>— at 600 V rated value</li> <li>• at 1 current path at DC-3 at DC-5</li> </ul>	
	20 A
• at 1 current path at DC-3 at DC-5	20 A 2.5 A
• at 1 current path at DC-3 at DC-5 — at 24 V rated value	
<ul> <li>at 1 current path at DC-3 at DC-5</li> <li>— at 24 V rated value</li> <li>— at 110 V rated value</li> </ul>	2.5 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> <li>— at 24 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> </ul>	2.5 A 1 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> </ul>	2.5 A 1 A 0.09 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> </ul>	2.5 A 1 A 0.09 A
<ul> <li>at 1 current path at DC-3 at DC-5 <ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	2.5 A 1 A 0.09 A 0.06 A
<ul> <li>at 1 current path at DC-3 at DC-5 <ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>with 2 current paths in series at DC-3 at DC-5 <ul> <li>at 24 V rated value</li> </ul> </li> </ul>	2.5 A 1 A 0.09 A 0.06 A 35 A
<ul> <li>at 1 current path at DC-3 at DC-5 <ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>with 2 current paths in series at DC-3 at DC-5 <ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> </ul> </li> </ul>	2.5 A 1 A 0.09 A 0.06 A 35 A 15 A
<ul> <li>at 1 current path at DC-3 at DC-5 <ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>with 2 current paths in series at DC-3 at DC-5 <ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> </ul> </li> </ul>	2.5 A 1 A 0.09 A 0.06 A 35 A 15 A 3 A

— at 24 V rated value	35 A				
— at 110 V rated value	35 A				
— at 220 V rated value	10 A				
— at 440 V rated value	0.6 A				
— at 600 V rated value	0.6 A				
operating power					
<ul> <li>at AC-2 at 400 V rated value</li> </ul>	18.5 kW				
• at AC-3					
— at 230 V rated value	11 kW				
— at 400 V rated value	18.5 kW				
— at 500 V rated value	18.5 kW				
— at 690 V rated value	18.5 kW				
• at AC-3e					
— at 230 V rated value	11 kW				
— at 400 V rated value	18.5 kW				
— at 500 V rated value	18.5 kW				
— at 690 V rated value	18.5 kW				
operating power for approx. 200000 operating cycles at AC-					
4					
• at 400 V rated value	6 kW				
• at 690 V rated value	10.3 kW				
short-time withstand current in cold operating state up to 40 $^\circ\text{C}$					
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	593 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	341 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	260 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	199 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	162 A; Use minimum cross-section acc. to AC-1 rated value				
no-load switching frequency					
• at DC	1 500 1/h				
operating frequency					
• at AC-1 maximum	750 1/h				
• at AC-2 maximum	750 1/h				
• at AC-3 maximum	750 1/h				
• at AC-3e maximum	750 1/h				
at AC-2 at AC-3e maximum	750 1/h				
• at AC-2 at AC-30 maximum	250 1/h				
	250 1/11				
Ratings for railway applications					
thermal current (Ith) up to 690 V					
• up to 40 °C according to IEC 60077 rated value	50 A				
up to 70 °C according to IEC 60077 rated value	38 A				
Control circuit/ Control					
type of voltage	DC				
type of voltage of the control supply voltage	DC				
control supply voltage at DC					
rated value	125 V				
operating range factor control supply voltage rated value of magnet coil at DC					
• initial value	0.7				
• full-scale value	1.25				
design of the surge suppressor	with varistor				
duration of locked-rotor current	180 ms				
closing power of magnet coil at DC	13.2 W				
holding power of magnet coil at DC	1.3 W				
closing delay					
• at DC	50 75 ms				
opening delay					
• at DC	30 50 ms				
arcing time	10 10 ms				
control version of the switch operating mechanism	Standard A1 - A2				
Auxiliary circuit					

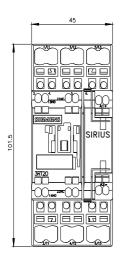
number of NC contacts for auxiliary contacts	1			
instantaneous contact	1			
number of NO contacts for auxiliary contacts	1			
<ul> <li>instantaneous contact</li> </ul>	1			
operational current at AC-12 maximum	10 A			
operational current at AC-15				
<ul> <li>at 230 V rated value</li> </ul>	10 A			
• at 400 V rated value	3 A			
• at 500 V rated value	2 A			
• at 690 V rated value	1A			
operational current at DC-12				
<ul> <li>at 24 V rated value</li> </ul>	10 A			
at 48 V rated value	6 A			
• at 60 V rated value	6 A			
• at 110 V rated value	3 A			
• at 125 V rated value	2 A			
at 220 V rated value	1 A			
at 600 V rated value	0.15 A			
operational current at DC-13				
• at 24 V rated value	10 A			
• at 48 V rated value	2 A			
• at 60 V rated value	2 A			
• at 110 V rated value	1 A			
• at 125 V rated value	0.9 A			
• at 220 V rated value	0.3 A			
• at 600 V rated value	0.1 A			
UL/CSA ratings				
full-load current (FLA) for 3-phase AC motor				
• at 480 V rated value	34 A			
• at 600 V rated value	27 A			
yielded mechanical performance [hp]				
<ul> <li>for single-phase AC motor</li> </ul>				
— at 110/120 V rated value	3 hp			
— at 230 V rated value	5 hp			
<ul> <li>for 3-phase AC motor</li> </ul>				
— at 200/208 V rated value	10 hp			
— at 220/230 V rated value	10 hp			
— at 460/480 V rated value	25 hp			
— at 575/600 V rated value	25 hp			
contact rating of auxiliary contacts according to UL	A600 / Q600			
Short-circuit protection				
product function short circuit protection	No			
design of the fuse link				
<ul> <li>for short-circuit protection of the main circuit</li> </ul>				
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA)			
— with type of assignment 2 required	gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (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			
<ul> <li>side-by-side mounting</li> </ul>	Yes			
height	102 mm			
width	45 mm			
depth	107 mm			
required spacing				
<ul> <li>with side-by-side mounting</li> </ul>				
— forwards	10 mm			
— upwards	10 mm			
— downwards	10 mm			

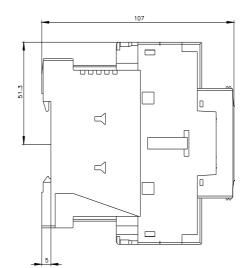
<ul> <li>for grounded parts</li> </ul>		
— forwards	10 mm	
— upwards	10 mm	
— at the side	6 mm	
— downwards	10 mm	
for live parts	10 1111	
- forwards	10 mm	
	10 mm	
— upwards — downwards	10 mm	
— at the side		
Connections/ Terminals	6 mm	
type of electrical connection	anning loaded tormingle	
for main current circuit	spring-loaded terminals	
for auxiliary and control circuit	spring-loaded terminals	
at contactor for auxiliary contacts	Spring-type terminals	
of magnet coil	Spring-type terminals	
type of connectable conductor cross-sections for main contacts		
• solid	2x (1 10 mm <sup>2</sup> )	
solid or stranded	2x (1 10 mm <sup>2</sup> )	
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 6 mm²)	
<ul> <li>finely stranded without core end processing</li> </ul>	2x (1 6 mm²)	
type of connectable conductor cross-sections		
<ul> <li>for auxiliary contacts</li> </ul>		
— solid or stranded	2x (0.5 2.5 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²)	
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm²)	
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 14)	
AWG number as coded connectable conductor cross section		
<ul> <li>for main contacts</li> </ul>	18 8	
<ul> <li>for auxiliary contacts</li> </ul>	20 14	
· · · · · · ·		
Safety related data		
Safety related data	Yes	
Safety related data product function	Yes No	
Safety related data product function • mirror contact according to IEC 60947-4-1		
Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1	No	
Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 B10 value with high demand rate according to SN 31920	No	
Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures	No 450 000	
Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920	No 450 000 40 %	
Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920	No 450 000 40 % 73 %	
Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         B10 value with high demand rate according to SN 31920         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         T1 value for proof test interval or service life according to IEC	No 450 000 40 % 73 % 100 FIT	
Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         B10 value with high demand rate according to SN 31920         proportion of dangerous failures         • with low demand rate according to SN 31920         • with high demand rate according to SN 31920         • thigh demand rate according to SN 31920         • The value for proof test interval or service life according to IEC 61508	No 450 000 40 % 73 % 100 FIT 20 a	
Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         B10 value with high demand rate according to SN 31920         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         T1 value for proof test interval or service life according to IEC 61508         protection class IP on the front according to IEC 60529	No 450 000 40 % 73 % 100 FIT 20 a IP20	
Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         B10 value with high demand rate according to SN 31920         proportion of dangerous failures         • with low demand rate according to SN 31920         • with high demand rate according to SN 31920         • with high demand rate according to SN 31920         failure rate [FIT] with low demand rate according to SN 31920         T1 value for proof test interval or service life according to IEC 61508         protection class IP on the front according to IEC 60529         touch protection on the front according to IEC 60529	No 450 000 40 % 73 % 100 FIT 20 a IP20	
Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         B10 value with high demand rate according to SN 31920         proportion of dangerous failures         • with low demand rate according to SN 31920         • with high demand rate according to SN 31920         • with high demand rate according to SN 31920         failure rate [FIT] with low demand rate according to SN 31920         T1 value for proof test interval or service life according to IEC 61508         protection class IP on the front according to IEC 60529         touch protection on the front according to IEC 60529         Communication/ Protocol	No 450 000 40 % 73 % 100 FIT 20 a IP20 finger-safe, for vertical contact from the front	
Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         B10 value with high demand rate according to SN 31920         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         T1 value for proof test interval or service life according to IEC 61508         protection class IP on the front according to IEC 60529         touch protection on the front according to IEC 60529         Communication/ Protocol         product function bus communication         Certificates/ approvals	No 450 000 40 % 73 % 100 FIT 20 a IP20 finger-safe, for vertical contact from the front	
Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         B10 value with high demand rate according to SN 31920         proportion of dangerous failures         • 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         T1 value for proof test interval or service life according to IEC 61508         protection class IP on the front according to IEC 60529         touch protection on the front according to IEC 60529         Communication/ Protocol         product function bus communication	No 450 000 40 % 73 % 100 FIT 20 a IP20 finger-safe, for vertical contact from the front	
Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         B10 value with high demand rate according to SN 31920         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         T1 value for proof test interval or service life according to IEC 61508         protection class IP on the front according to IEC 60529         touch protection on the front according to IEC 60529         Communication/ Protocol         product function bus communication         Certificates/ approvals	No 450 000 40 % 73 % 100 FIT 20 a IP20 finger-safe, for vertical contact from the front No	FDF
Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         B10 value with high demand rate according to SN 31920         proportion of dangerous failures         • with low demand rate according to SN 31920         • with high demand rate according to SN 31920         • with high demand rate according to SN 31920         failure rate [FIT] with low demand rate according to SN 31920         failure rate [FIT] with low demand rate according to SN 31920         T1 value for proof test interval or service life according to IEC 61508         protection class IP on the front according to IEC 60529         touch protection on the front according to IEC 60529         Communication/ Protocol         product function bus communication         Certificates/ approvals         General Product Approval	No 450 000 40 % 73 % 100 FIT 20 a IP20 finger-safe, for vertical contact from the front No	ΓΩΓ
Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         B10 value with high demand rate according to SN 31920         proportion of dangerous failures         • with low demand rate according to SN 31920         • with high demand rate according to SN 31920         • with high demand rate according to SN 31920         failure rate [FIT] with low demand rate according to SN 31920         failure rate [FIT] with low demand rate according to SN 31920         T1 value for proof test interval or service life according to IEC 61508         protection class IP on the front according to IEC 60529         touch protection on the front according to IEC 60529         Communication/ Protocol         product function bus communication         Certificates/ approvals         General Product Approval	No 450 000 40 % 73 % 100 FIT 20 a IP20 finger-safe, for vertical contact from the front No	EAC
Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         B10 value with high demand rate according to SN 31920         proportion of dangerous failures         • with low demand rate according to SN 31920         • with high demand rate according to SN 31920         • with high demand rate according to SN 31920         failure rate [FIT] with low demand rate according to SN 31920         failure rate [FIT] with low demand rate according to SN 31920         T1 value for proof test interval or service life according to IEC 61508         protection class IP on the front according to IEC 60529         touch protection on the front according to IEC 60529         Communication/ Protocol         product function bus communication         Certificates/ approvals         General Product Approval	No 450 000 40 % 73 % 100 FIT 20 a IP20 finger-safe, for vertical contact from the front No	EAC
Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         B10 value with high demand rate according to SN 31920         proportion of dangerous failures         • with low demand rate according to SN 31920         • with high demand rate according to SN 31920         • with high demand rate according to SN 31920         failure rate [FIT] with low demand rate according to SN 31920         failure rate [FIT] with low demand rate according to SN 31920         T1 value for proof test interval or service life according to IEC 61508         protection class IP on the front according to IEC 60529         touch protection on the front according to IEC 60529         Communication/ Protocol         product function bus communication         Certificates/ approvals         General Product Approval	No 450 000 40 % 73 % 100 FIT 20 a IP20 finger-safe, for vertical contact from the front No	EAC
Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         B10 value with high demand rate according to SN 31920         proportion of dangerous failures         • with low demand rate according to SN 31920         • 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         T1 value for proof test interval or service life according to IEC 61508         protection class IP on the front according to IEC 60529         touch protection on the front according to IEC 60529         communication/ Protocol         product function bus communication         Certificates/ approvals         General Product Approval	No 450 000 40 % 73 % 100 FIT 20 a IP20 finger-safe, for vertical contact from the front No	EAC
Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         B10 value with high demand rate according to SN 31920         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         T1 value for proof test interval or service life according to IEC 61508         protection class IP on the front according to IEC 60529         touch protection on the front according to IEC 60529         Communication/ Protocol         product function bus communication         Certificates/ approvals         General Product Approval         Image: Confirmation         Functional	No 450 000 40 % 73 % 100 FIT 20 a IP20 finger-safe, for vertical contact from the front No No	EAC
Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         B10 value with high demand rate according to SN 31920         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         T1 value for proof test interval or service life according to IEC 61508         protection class IP on the front according to IEC 60529         touch protection on the front according to IEC 60529         Communication/ Protocol         product function bus communication         Certificates/ approvals         General Product Approval         Image: Confirmation         Functional	No 450 000 40 % 73 % 100 FIT 20 a IP20 finger-safe, for vertical contact from the front No No	EAC

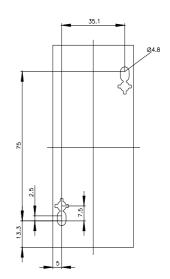
RCM	<u>Type Examination Cer-</u> <u>tificate</u>	EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>
Marine / Shipping					
ABS	BUREAU VERITAS		Hoyd's Register LRS	PRS	RINA
Marine / Shipping	other		Railway		Dangerous Good
RMRS RARS	<u>Confirmation</u>		<u>Special Test Certific-</u> <u>ate</u>	<u>Vibration and Shock</u>	Transport Information
Further information					
	d to exit the Russian marke com/global/en/pressrelease/		ssian-business		
Siemens is working of Please contact your lo EAC relevant market ( Information on the pa	on the renewal of the curre cal Siemens office on the sta other than the sanctioned E	ent EAC certificates. atus of validity of the EA AEU member states Ru	AC certification if you intend	I to import or offer to supp	ply these products to an
Information- and Dov https://www.siemens.c	wnloadcenter (Catalogs, Bi com/ic10	rochures,)			
Industry Mall (Online		log/product?mlfb=3RT2	028-2XG40-0LA2		
Cax online generator				)-0LA2	
Service&Support (Ma	anuals, Certificates, Chara y.siemens.com/cs/ww/en/ps/	cteristics, FAQs,)			
Image database (proc http://www.automation	duct images, 2D dimension	n drawings, 3D models e.aspx?mlfb=3RT2028-2	s, device circuit diagrams 2XG40-0LA2⟨=en	s, EPLAN macros,)	

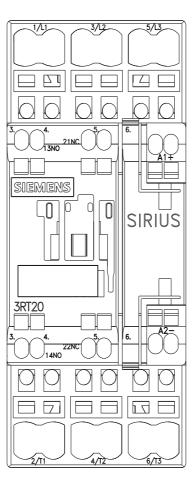
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2028-2XG40-0LA2/char

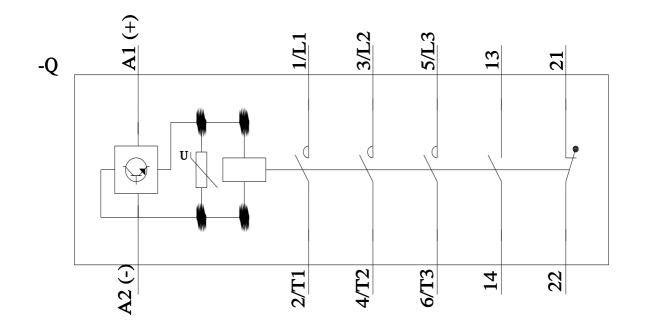
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2028-2XG40-0LA2&objecttype=14&gridview=view1











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11/21/2022 🖸