## **SIEMENS**

Data sheet 3RT2015-2AN22



power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 220 V AC, 50/60 Hz, auxiliary contacts: 1 NC, spring-loaded terminal, size: S00  $\,$ 

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>	0.6 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.2 W
without load current share typical	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
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	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	0.251 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
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %

Environmental footprint	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 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	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> <li>at AC-1</li> </ul>	18 A
up to 690 V at ambient temperature 40 °C rated value	18 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	16 A
• at AC-3	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
• at AC-3e	7.4
— at 400 V rated value	7.A
— at 500 V rated value	6.4
— at 690 V rated value	4.9 A 6.5 A
<ul><li>at AC-4 at 400 V rated value</li><li>at AC-5a up to 690 V rated value</li></ul>	15.8 A
• at AC-5b up to 400 V rated value	5.8 A
• at AC-6a	3.0 A
— up to 230 V for current peak value n=20 rated value	4 A
— up to 400 V for current peak value n=20 rated value	4 A
— up to 500 V for current peak value n=20 rated value	3.8 A
— up to 690 V for current peak value n=20 rated value	3.6 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	2.7 A
— up to 400 V for current peak value n=30 rated value	2.7 A
— up to 500 V for current peak value n=30 rated value	2.5 A
— up to 690 V for current peak value n=30 rated value	2.4 A
minimum cross-section in main circuit at maximum AC-1 rated value	2.5 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	2.6 A
at 690 V rated value	1.8 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	1.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.42 A
with 2 current paths in series at DC-1  at 24 V rated value.	45.0
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	8.4 A
— at 220 V rated value	1.2 A
— at 440 V rated value — at 600 V rated value	0.6 A 0.5 A
— at 000 v rateu value	U.U A

to AC-1 rated value
o AC-1 rated value

a at AC 3a mayim:	7F0.4/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	
<ul> <li>at 50 Hz rated value</li> </ul>	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 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	4.2 VA
• at 60 Hz	3.3 VA
inductive power factor with the holding power of the coil	
● at 50 Hz	0.25
• at 60 Hz	0.25
closing delay	
• 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	
• at 230 V rated value	10 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	10 A
at 48 V rated value	6 A
• at 60 V rated value	6 A
• at 110 V rated value	3 A
• at 125 V rated value	2 A
at 220 V rated value	1 A
• at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	10 A
at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
• at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
• at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	4.8 A
at 600 V rated value	6.1 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
s for onigio pridocerto filotor	

	at 110/120 V rated value	0.25 ha
	— at 110/120 V rated value	0.25 hp
		0.73 Hp
	•	4.5 ha
alt 400/480 V rated value		
contact rating of auxiliary contacts according to UL.         A800 / OS000           Softed record protection         Colume densitie: 10 A. 0.4 kA           design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required segling of the miniature circuit breaker for short-circuit protection of the auxiliary switch required segling of the first limit of the auxiliary switch required sealing or strength protection of the auxiliary switch required statistican menting distinusions.         Get 10 A (S00 V. 1 kA)           mounting position         4 x + 180° rotation possible on vertical mounting surface; can be titled forward and backward by x + 22.5° on vertical mounting surface; and be titled forward and backward by x + 22.5° on vertical mounting surface; and be titled forward and backward by x + 22.5° on vertical mounting surface; and be titled forward and backward by x + 22.5° on vertical mounting surface; and be titled forward and backward by x + 22.5° on vertical mounting surface; and be titled forward and backward by x + 22.5° on vertical mounting surface; and be titled forward and backward by x + 22.5° on vertical mounting surface; and be titled forward and backward by x + 22.5° on vertical mounting surface; and be titled forward and backward by x + 22.5° on vertical mounting surface; and be titled forward and backward by x + 22.5° on vertical mounting surface; and be titled forward and backward by x + 22.5° on vertical mounting surface; and be titled forward and backward by x + 22.5° on vertical mounting surface; and be titled forward and backward by x + 22.5° on vertical mounting surface; and be titled forward and backward by x + 22.5° on vertical mounting surface; and be titled forward and backward by x + 22.5° on vertical mounting surface; and backward by x + 22.5° on vertical mounting surface; and backward by x + 22.5° on vertica		·
Start   Star		·
design of the ministure circuit broader for short-circuit protection of the auxiliary circuit up to 280 v. decided from the fuse link of the auxiliary circuit up to 280 v. decided from the fuse link of the auxiliary circuit up to 280 v. decided from the auxiliary circuit up to 280 v. decided fr		A600 / Q600
of the auxiliary circuit up to 230 V           design of the fuse link         gG: 10 A (500 V, 1 kA)           a for short-circuit protection of the auxiliary switch required         J+180° rotation possible on vertical mounting surface; can be tilted forward and backward by 1+1-22.5° on vertical mounting surface; can be tilted forward and backward by 1+1-22.5° on vertical mounting surface; can be tilted forward and backward by 1+1-22.5° on vertical mounting surface; can be tilted forward and backward by 1+1-22.5° on vertical mounting surface; can be tilted forward and backward by 1+1-22.5° on vertical mounting surface; can be tilted forward and backward by 1+1-22.5° on vertical mounting surface; can be tilted forward and backward by 1+1-22.5° on vertical mounting surface; can be tilted forward and backward by 1+1-22.5° on vertical mounting surface; can be tilted forward and backward by 1+1-22.5° on vertical mounting surface; can be tilted forward and backward by 1+1-22.5° on vertical mounting surface; can be tilted forward and backward by 1+1-22.5° on vertical mounting surface; can be tilted forward and backward by 1+1-22.5° on vertical mounting surface; can be tilted forward and backward by 1+1-22.5° on vertical mounting surface; can be tilted forward and backward by 1+1-22.5° on vertical mounting surface; can be tilted forward and backward by 1-1-22.5° on vertical mounting surface; can be tilted forward and backward by 1-1-22.5° on vertical mounting surface; can be tilted forward and backward by 1-1-22.5° on vertical mounting surface; can be tilted forward and backward by 1-1-22.5° on vertical mounting surface; can be tilted forward and backward by 1-1-22.5° on vertical mounting surface; can be tilted forward and backward by 1-1-22.5° on vertical mounting surface; can be tilted forward and backward by 1-1-22.5° on vertical mounting surface; can be tilted forward and backward by 1-1-22.5° on vertical mounting surface		
*** of whort-circuit protection of the auxiliary switch required   \$6:10 A (\$00 V, 1 kA)	of the auxiliary circuit up to 230 V	C characteristic: 10 A; 0.4 kA
mounting position         +*180* rotation possible on vertical mounting surface: can be tilted forward and abecward by +*-22.5* on vertical mounting surface.           festening 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         ***           *** with side-by-side mounting         10 mm           - forwards         10 mm           - downwards         10 mm           - upwards         10 mm           - downwards         10 mm           - downwards         10 mm           - downwards         10 mm           - downwards         10 mm           - for rain current circuit         spring-loaded terminals           * for auxiliary and control circuit         spring-loaded terminals           * of man current circuit	· · · · · · · · · · · · · · · · · · ·	gG: 10 A (500 V, 1 kA)
Taskening method side-by-side mounting   Yes		
fastening method         screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 80715           height         70 mm           dopth         73 mm           required spacing         ************************************		backward by +/- 22.5° on vertical mounting surface
height         70 mm           width         45 mm           doth         73 mm           required spacing         ************************************		
width         45 mm           depth         73 mm           required spacing         73 mm           e with side-by-side mounting         10 mm           — forwards         10 mm           — downwards         10 mm           — downwards         10 mm           — forwards         10 mm           — upwards         10 mm           — at the side         6 mm           — downwards         10 mm           — forwards         10 mm           — for live parts         10 mm           — for wash         10 mm           — downwards         10 mm           — downwards         10 mm           — downwards         10 mm           — for main current circuit         sping-loaded terminals           • for main	fastening method	
depth         73 mm           required spacing         required spacing           • with side-by-side mounting         10 mm           — forwards         10 mm           — downwards         10 mm           — at the side         0 mm           — for grounded parts         10 mm           — at the side         6 mm           — downwards         10 mm           — downwards         10 mm           — for live parts         10 mm           — for live parts         10 mm           — downwards         10 mm           — at the side         6 mm           — at the side         6 mm           — at the side         6 mm           Pormain current circuit         spring-loaded terminals           • for mall current circuit         spring-loaded terminals           • for mall current circuit         spring-loaded terminals           • for main contacts         Spring-type terminals           • for main contacts         Spring-type terminals           • for main contacts         Spring-type terminals           - solid or stranded         2x (0.5 2.5 mm²)           • for MXG cables for main contacts         2x (0.5 2.5 mm²)           • solid or stranded         0.5		
To with side-by-side mounting	width	45 mm
	depth	73 mm
forwards	required spacing	
- upwards 10 mm 1	<ul> <li>with side-by-side mounting</li> </ul>	
- downwards - at the side 0 mm  • for grounded parts - 10 mm  - upwards 10 mm  - at the side 6 mm  - at the side 6 mm  - at the side 6 mm  • for live parts 10 mm  • for live parts 10 mm  - downwards 10 mm  - upwards 10 mm  - upwards 10 mm  - upwards 10 mm  - downwards 10 mm  - downwards 10 mm  - downwards 10 mm  - at the side 6 mm  Connections/Terminals  - type of electrical connection  • for main current circuit spring-loaded terminals spring-type terminals spring	— forwards	10 mm
• for grounded parts  - forwards  - upwards  - at the side  - downwards  - to live parts  - forwards  - forwards  - downwards  - for wards  - forwards  - forwards  - forwards  - forwards  - forwards  - forwards  - upwards  - upwards  - downwards  - 10 mm  - downwards  - 10 mm  - at the side  - downwards  - 10 mm  - at the side  - downwards  - for main current circuit  - for auxiliary and control circuit  - for auxiliary and control circuit  - for auxiliary and control circuit  - for for auxiliary and control circuit  - for for announcet for auxiliary contacts  - solid  - solid  - solid ostranded  - finely stranded with core end processing  - for AWG cables for main contacts  - solid  - solid  - solid  - solid  - solid  - finely stranded with core end processing  - finely stranded with core end processi	— upwards	10 mm
• for grounded parts  — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — of man — of worwards — upwards — downwards — to mm — downwards — to mm — at the side — of man — at the side — of man — of man current circuit — of ro raxiliary and control circuit — of auxiliary and control circuit — of or auxiliary and control circuit — of majn current of ro auxiliary contacts — of majn contacts — of majn contacts — solid — solid or stranded — finely stranded with core end processing — finely stranded with core end processing — of rot AWG cables for main contacts — solid — stranded — finely stranded with core end processing — solid — stranded — finely stranded with core end processing — finely stranded with core end processing — solid or stranded — finely stranded with core end processing — solid or stranded — finely stranded with core end processing — solid or stranded — finely stranded with core end processing — solid or stranded — finely stranded with core end processing — solid or stranded — finely stranded with core end processing — solid or stranded — finely stranded with core end processing — solid or stranded with core end processing — solid or stranded — solid or stranded with core end processing — solid or stranded — solid or stranded — solid or stranded — solid or stranded — solid or s	— downwards	10 mm
- forwards	— at the side	0 mm
- upwards - at the side - downwards 10 mm  • for live parts - forwards 10 mm  • for live parts - upwards 10 mm  - upwards 10 mm  - upwards 10 mm  - downwards 10 mm  - at the side 6 mm   Connections/ Terminals  type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil  type of connectable conductor cross-section for main contacts - solid - solid or stranded - finely stranded with core end processing • for AWG cables for main contacts • solid • stranded • finely stranded with core end processing	<ul> <li>for grounded parts</li> </ul>	
at the side downwards for live parts for live parts forwards upwards upwards downwards	— forwards	10 mm
of or live parts     of rowards     ouwards	— upwards	10 mm
• for live parts  — forwards — upwards — downwards — at the side  Connections/ Terminals  type of electrical connection • for main current circuit • at contactor for auxiliary contacts • of magnet coil  type of connectable conductor cross-section for main contacts  — solid • for walk garded with core end processing • finely stranded with core end processing	— at the side	6 mm
- forwards 10 mm 10 mm 40 mm 4	— downwards	10 mm
- forwards 10 mm 10 mm 40 mm 4	• for live parts	
- upwards 10 mm 10	•	10 mm
- downwards - at the side  Connections/ Terminals  type of electrical connection  • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil  type of connectable conductor cross-sections • for main contacts  - solid - solid or stranded - finely stranded with core end processing • for AWC cables for main contacts  • solid • stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • for AWG cables for main contacts • solid • stranded • finely stranded with core end processing • finely stranded without core end processing • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded with core end processing		
Type of electrical connections  for amin current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil  type of connectable conductor cross-sections  for main current circuit at contacts of magnet coil  type of connectable conductor cross-sections  for main contacts  solid solid solid or stranded finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing finely stranded finely stranded finely stranded finely stranded finely stranded finely stranded with core end processing finely stranded without core end processing finely stranded w	·	
type of electrical connection  • for main current circuit spring-loaded terminals • for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • at contactor for auxiliary contacts • of magnet coil  type of connectable conductor cross-sections  • for main contacts  - solid - solid or stranded - finely stranded with core end processing • for AWG cables for main contacts  • solid • stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • finely stranded without core end processing • solid or stranded • finely stranded without core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing		
type of electrical connection  • for main current circuit  • for auxiliary and control circuit  • at contactor for auxiliary contacts  • of magnet coil  type of connectable conductor cross-sections  • for main contacts  - solid  - solid or stranded - finely stranded with core end processing  • stranded • finely stranded with core end processing  • finely stranded without core end processing  • finely stranded without core end processing  • solid or stranded  • finely stranded with core end processing  • finely stranded without core end processing		
• for main current circuit     • for auxiliary and control circuit     • at contactor for auxiliary contacts     • of magnet coil     • por auxiliary contacts     • of magnet coil     • spring-type terminals     • of magnet coil     • of connectable conductor cross-sections      • for main contacts     • solid     • solid or stranded     • solid or stranded with core end processing     • finely stranded without core end processing     • for AWG cables for main contacts     • solid     • stranded     • stranded     • finely stranded with core end processing     • finely stranded without core end processing     • finely stranded without core end processing     • finely stranded without core end processing     • solid or stranded     • finely stranded with core end processing     • solid or stranded     • finely stranded with core end processing     • solid connectable conductor cross-sections		
<ul> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>Spring-type terminals</li> <li>for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>solid</li> <li>for A mm²</li> <li>2x (0.5 4 mm²)</li> <li>x (0.5 4 mm²)</li> <li>x (0.5 2.5 mm²)</li> <li>x (0.5 2.5 mm²)</li> <li>x (0.5 4 mm²)</li> <li>x (0.5 4 mm²)</li> <li>x (0.5 2.5 mm²)</li> <li>x (0.5 2.5 mm²)</li> <li>x (0.5 2.5 mm²)</li> <li>x (0.5 4 mm²)</li> <li>x (0.5 2.5 mm²)</li> <li>x (0.5 4 mm</li></ul>		spring-loaded terminals
<ul> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>Spring-type terminals</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts</li> <li>— solid</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>for AWG cables for main contacts</li> <li>10.5 4 mm²)</li> <li>a finely stranded without core end processing</li> <li>for AWG cables for main contacts</li> <li>solid</li> <li>osolid</li> <li>osolid</li></ul>		
• of magnet coil  type of connectable conductor cross-sections  • for main contacts  - solid - solid or stranded - finely stranded with core end processing - for AWG cables for main contacts  • solid • stranded • finely stranded with core end processing - solid • stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • finely stranded without core end processing		
type of connectable conductor cross-sections		
<ul> <li>for main contacts</li> <li>— solid</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end processing</li> <li>— for AWG cables for main contacts</li> <li>(a) solid</li> <li>(b) stranded</li> <li>(c) sundance</li> <li>(c) sundance</li></ul>	•	Opinig-type terminals
- solid - solid or stranded - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing - for AWG cables for main contacts  • for AWG cables for main contacts  • solid - stranded - finely stranded with core end processing - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing - finely stranded with core end processing - finely stranded - finely stranded with core end processing - finely stranded with core end processing - finely stranded without core end processi		
- solid or stranded - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing • for AWG cables for main contacts • solid • stranded • stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • solid or stranded • finely stranded without core end processing • solid or stranded • finely stranded without core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • finely stranded without core end processing		2v (0.5 4 mm²)
- finely stranded with core end processing - finely stranded without core end processing  • for AWG cables for main contacts  • solid • stranded • stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • solid • finely stranded without core end processing • finely stranded without core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely connectable conductor cross-sections		
<ul> <li>— finely stranded without core end processing</li> <li>● for AWG cables for main contacts</li> <li>○ solid</li> <li>● stranded</li> <li>● stranded</li> <li>● finely stranded with core end processing</li> <li>● finely stranded without core end processing</li> <li>● finely stranded without core end processing</li> <li>O.5 2.5 mm²</li> <li>Connectable conductor cross-section for auxiliary contacts</li> <li>● solid or stranded</li> <li>● finely stranded with core end processing</li> <li>O.5 4 mm²</li> <li>O.5 4 mm²</li> <li>O.5 4 mm²</li> <li>O.5 2.5 mm²</li> </ul>		
<ul> <li>◆ for AWG cables for main contacts</li> <li>2x (20 12)</li> <li>connectable conductor cross-section for main contacts</li> <li>◆ solid</li> <li>◆ stranded</li> <li>◆ finely stranded with core end processing</li> <li>◆ finely stranded without core end processing</li> <li>◆ finely stranded without core end processing</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>◆ solid or stranded</li> <li>◆ finely stranded with core end processing</li> <li>◆ finely stranded without core end processing</li> <li>◆ finely stranded without core end processing</li> <li>◆ finely stranded without core end processing</li> <li>◆ finely connectable conductor cross-sections</li> </ul>		
connectable conductor cross-section for main contacts  • solid  • stranded  • stranded  • finely stranded with core end processing  • finely stranded without core end processing  • solid or stranded  • solid or stranded  • finely stranded with core end processing  • solid or stranded  • finely stranded with core end processing  • finely stranded with core end processing  • finely stranded with core end processing  • finely stranded without core end processing  • finely stranded without core end processing  • for connectable conductor cross-sections		
<ul> <li>solid</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>finely connectable conductor cross-sections</li> </ul>		ZX (ZU 1Z)
<ul> <li>stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>2.5 mm²</li> <li>finely stranded without core end processing</li> </ul>		
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>type of connectable conductor cross-sections</li> </ul>		
<ul> <li>finely stranded without core end processing</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>2.5 mm²</li> <li>type of connectable conductor cross-sections</li> </ul>		
connectable conductor cross-section for auxiliary contacts  • solid or stranded  • finely stranded with core end processing  • finely stranded without core end processing  • finely stranded without core end processing  type of connectable conductor cross-sections		
<ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>type of connectable conductor cross-sections</li> </ul>	· · · · · · · · · · · · · · · · · · ·	0.5 2.5 mm²
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>type of connectable conductor cross-sections</li> </ul>	-	
• finely stranded without core end processing 0.5 2.5 mm²  type of connectable conductor cross-sections		
type of connectable conductor cross-sections	<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
	finely stranded without core end processing	0.5 2.5 mm²
• for auxiliary contacts	type of connectable conductor cross-sections	
	<ul> <li>for auxiliary contacts</li> </ul>	

<ul> <li>— solid or stranded</li> </ul>	2x (0,5 4 mm²)
<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)
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 12)
AWG number as coded connectable conductor cross section	
• for main contacts	20 12
<ul> <li>for auxiliary contacts</li> </ul>	20 12
Safety related data	
product function	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No
<ul> <li>suitable for safety function</li> </ul>	Yes
suitability for use safety-related switching OFF	Yes
service life maximum	20 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %
B10 value with high demand rate according to SN 31920	1 000 000
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Approvals Certificates	
General Product Approval	

## General Product Approval









<u>KC</u>



EMV Test Certificates Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate







Marine / Shipping other









Miscellaneous

Confirmation

other Railway Environment

Confirmation

Special Test Certificate



Environmental Confirmations

urther 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)
<a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2015-2AN22">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2015-2AN22</a>

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2015-2AN22

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

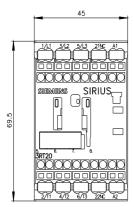
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2015-2AN22&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2015-2AN22&lang=en</a>

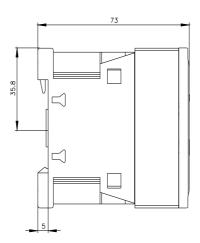
Characteristic: Tripping characteristics, I2t, Let-through current

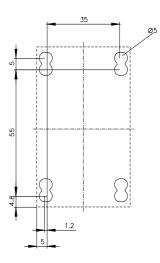
https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2AN22/char

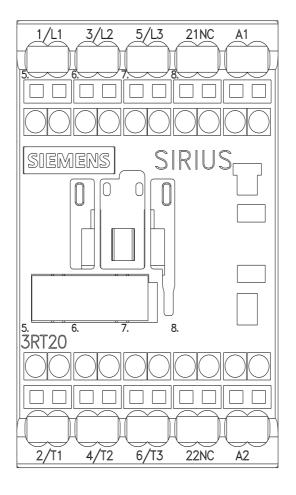
Further characteristics (e.g. electrical endurance, switching frequency)

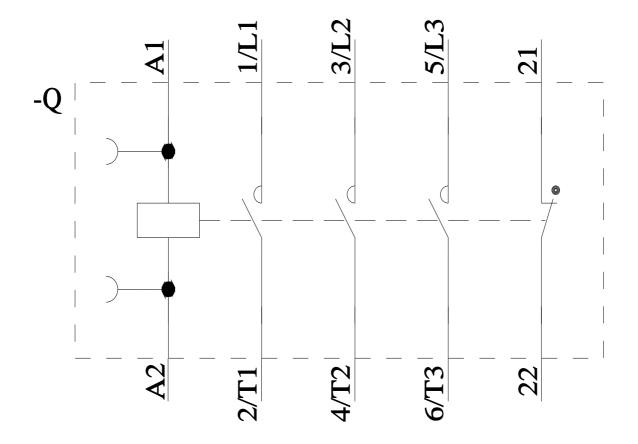
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2015-2AN22&objecttype=14&gridview=view1











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