Data sheet

3RT2016-1AK62-1AA0



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 110 V AC, 50 Hz / 120 V, 60 Hz, auxiliary contacts: 1 NC, screw terminal, size: S00, upright mounting position

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S00
product extension	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	0.9 W
 at AC in hot operating state per pole 	0.3 W
without load current share typical	4.4 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
of auxiliary circuit with degree of pollution 3 rated value	690 V
surge voltage resistance	
of main circuit rated value	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)	
of contactor typical	30 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3

number of NO contacts for main contacts	3
operating voltage	
 at AC-3 rated value maximum 	690 V
at AC-3e rated value maximum	690 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated 	22 A
value	
• at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	22 A
— up to 690 V at ambient temperature 60 °C rated	20 A
value	2071
• at AC-3	
— 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-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 mm²
operational current for approx. 200000 operating cycles at	
AC-4	44.0
at 400 V rated value	4.1 A
at 690 V rated value	3.3 A
operational current	
• at 1 current path at DC-1	
— 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	
— 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 3 current paths in series at DC-1	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	20 A
— 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 	

— at 24 V rated value	20 A
— at 60 V rated value	0.5 A
— at 110 V rated value	0.15 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 110 V rated value	0.35 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	1.5 A
— at 440 V rated value	0.2 A
	0.2 A
— at 600 V rated value	0.2 A
operating power	A LAM
• at AC-2 at 400 V rated value	4 kW
• at AC-3	
— at 230 V rated value	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	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	4 kW
— at 690 V rated value	5 kW
operating power for approx. 200000 operating cycles at AC-	
4	
 at 400 V rated value 	2 kW
at 690 V rated value	2.5 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	2 kVA
 up to 400 V for current peak value n=20 rated value 	3.6 kVA
 up to 500 V for current peak value n=20 rated value 	4.6 kVA
 up to 690 V for current peak value n=20 rated value 	5.9 kVA
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	1.3 kVA
 up to 400 V for current peak value n=30 rated value 	2.4 kVA
• up to 500 V for current peak value n=30 rated value	3.1 kVA
• up to 690 V for current peak value n=30 rated value	4 kVA
short-time withstand current in cold operating state up to	
40 °C	
 limited to 1 s switching at zero current maximum 	155 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	111 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	86 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 30 s switching at zero current maximum	66 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 60 s switching at zero current maximum	55 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	10 000 1/h
operating frequency	
• at AC-1 maximum	1 000 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-4 maximum	250 1/h
Control circuit/ Control	
	AC.
type of voltage of the control supply voltage	AC
control supply voltage at AC	440.V
at 50 Hz rated value	110 V
at 60 Hz rated value	120 V
operating range factor control supply voltage rated value of magnet coil at AC	

● at 50 Hz	0.8 1.1
● at 60 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
● at 50 Hz	26.4 VA
● at 60 Hz	26.4 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.81
• at 60 Hz	0.81
apparent holding power of magnet coil at AC	
● at 50 Hz	4.4 VA
• at 60 Hz	4.4 VA
inductive power factor with the holding power of the coil	
● at 50 Hz	0.24
• at 60 Hz	0.24
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 NO contacts for auxiliary contacts instantaneous	1
contact	
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	7.6 A
at 600 V rated value	9 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	0.33 hp
— at 230 V rated value	1 hp
for 3-phase AC motor	
— 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	A600 / Q600
Short-circuit protection	7,000 / 4000
Short-circuit protection	

design of the rates limb		
with type of assignment 2 required with type of assignment 2 required with type of assignment 2 required for short-creating protection of the auxiliary switch required short-broad particle for the auxiliary switch required short-by-side mounting short-by-side mounting short-by-side mounting short-by-side mounting short-by-side mounting forwards with shde-by-side mounting with shde-by-side mounting with shde-by-side mounting with shde-by-side mounting forwards with shde-by-side mounting forwards with shde-by-side mounting with shde-by-side mounting with shde-by-side mounting with shde-by-side mounting forwards for with shde-by-side mounting forwards with shde-by-side with core and processing for mail contacts with by-effect with core and processing for with standed with core and processing for with standed with core and processing for with standed wi	design of the fuse link	
	•	aC: 2EA (600\/ 100kA\ aM: 20A (600\/ 100kA\ BS99: 2EA (41E\/ 90kA\
### Statistical protection of the auxiliary switch required statistical mounting position statistical members statistical member		
	· · · · · · · · · · · · · · · · · · ·	gg. 10 A (300 V, 1 kA)
fastering method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 e sight 55 mm width 45 mm deight 75 mm required spacing 75 mm - forwards 10 mm - forwards 10 mm - downwards 10 mm - for grounded parts 10 mm - forwards 10 mm - forwards 10 mm - forwards 10 mm - for grounded parts 10 mm - for grounded parts 10 mm - for grounded parts 10 mm - forwards 10 mm - for main current circuit 5 mm - for audiliary and control croul 5 crew-bype terminals s of conscibile conductor cross-section for main contacts 5 crow-bype terminals s solid or standed 2 (15 - 1.5		standing on horizontal mounting surface
Height		The state of the s
height 58 mm with depth 45 mm depth 75 mm required spacing ************************************	-	
width 45 mm depth 73 mm required spacing ************************************	<u> </u>	
evaluate spacing evaluate sp		45 mm
	depth	73 mm
- forwards	required spacing	
- upwards	 with side-by-side mounting 	
- crownwards - at the side	— forwards	10 mm
- at the side - for grounded parts - forwards - upwards - at the side - downwards - for live parts - forwards - for live parts - forwards - upwards - for live parts - forwards - upwards - for live parts - forwards - upwards - downwards - upwards - downwards - at the side - downwards - at the side - downwards - at the side - for main current cround - for mine current circuit - for auxiliary and control circuit - for auxiliary contacts - of magnet coil - speed of electrical connection - for mine current circuit - for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core e	— upwards	10 mm
	— downwards	10 mm
forwards		0 mm
- upwards	 for grounded parts 	
- at the side	— forwards	10 mm
For live parts	·	
for live parts — forwards — upwards — upwards — downwards — downwards — at the side — at the side — at the side — at the side — of mm ——at the side — at the side — of mm ——at the side — of mm — of main current circuit — of or main current circuit — of or auxiliary and control circuit — of managet coil — of managet coil		
forwards 10 mm		10 mm
- upwards	•	
- downwards - at the side 6 mm the side 6 mm type of electrical connection • for main current circuit screw-type terminals • of magnet coil connection or main current circuit screw-type terminals • of magnet coil Screw-type terminals • solid or stranded • solid or stranded • solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² • solid or stranded 0.5 4 mm² • stranded 0.5 4 mm² • stranded 0.5 4 mm² • finely stranded with core end processing 0.5 2.5 mm² • solid or stranded 0.5 4 mm² • finely stranded with core end processing 0.5 2.5 mm² • solid or stranded 0.5 4 mm² • finely stranded with core end processing 0.5 2.5 mm² • for awdilary contacts • for main contacts • for main contacts • for awdilary contacts • for diagnerous failures • for diagnerous failures • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 • with low demand rate according to SN 31920		
type of electrical connection of or main current circuit of or auxiliary and control circuit of or auxiliary and control circuit of or main current circuit of or auxiliary and control circuit of or auxiliary and control circuit of or magnet coil screw-type terminals of magnet coil screw-type terminals type of connectable conductor cross-sections for main contacts of solid of solid or stranded of inely stranded with core end processing of stranded with core end processing of stranded of stranded of stranded with core end processing of stranded over the stranded of st	·	
type of electrical connection • for main current circuit • at contactor for auxillary and control circuit • at contactor for auxillary contacts • of magnet coll type of connectable conductor cross-sections for main contacts • solid or stranded • solid or stranded • finely stranded with core end processing • for auxillary contacts • solid or stranded • finely stranded with core end processing • for auxillary contacts • for auxillary contacts • for auxillary contacts • for auxillary contacts • for fauxillary contacts • for for auxillary contac		
type of electrical connection • for main current circuit • for auxiliary and control circuit • act 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 auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • for fauxiliary contacts • for main contac		6 mm
• for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil * of magnet coil * of magnet coil * of magnet coil * of connectable conductor cross-sections for main contacts • solid • solid or stranded • finely stranded with core end processing • solid • stranded on of cross-section for main contacts • solid • solid or stranded with core end processing • solid • stranded with core end processing • solid • 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 • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for AWG cables for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for main contacts		
of rauxiliary and control circuit ot a contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts osolid osolid or stranded initely stranded with core end processing connectable conductor cross-section for main contacts osolid or stranded with core end processing connectable conductor cross-section for main contacts osolid or stranded with core end processing connectable conductor cross-section for main contacts osolid or stranded or strand	••	across 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 • solid • stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • solid • 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 • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for AWG cables for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for main contacts • for auxiliary contacts • for main contacts • for auxiliary contacts • for main contacts • for auxiliary contacts • for main contacts • for auxiliary contact		
type of connectable conductor cross-sections for main contacts solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) connectable conductor cross-section for main contacts solid 0.5 4 mm² stranded 0.5 4 mm² connectable conductor cross-section for auxiliary contacts solid 0.5 4 mm² 0.5 2.5 mm² connectable conductor cross-section for auxiliary contacts solid or stranded 0.5 4 mm² 0.5 2.5 mm² type of connectable conductor cross-sections finely stranded with core end processing 0.5 2.5 mm² type of connectable conductor cross-sections for auxiliary contacts - solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5	•	
type of connectable conductor cross-sections for main contacts • solid • solid or stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • solid • stranded • stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for AWG cables for auxiliary contacts • for AWG cables for auxiliary contacts • for auxiliary contacts • f	•	
solid	-	Octew-type terminals
• solid or stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 1.5 mm²), 2x	2.	2x (0.5
e finely stranded with core end processing connectable conductor cross-section for main contacts e solid e stranded e finely stranded with core end processing connectable conductor cross-section for auxiliary contacts e solid or stranded e finely stranded with core end processing connectable conductor cross-section for auxiliary contacts e solid or stranded e finely stranded with core end processing connectable conductor cross-sections e for auxiliary contacts - solid or stranded - finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) type of connectable conductor cross-sections e for auxiliary contacts - solid or stranded - finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 2x 12 AWG number as coded connectable conductor cross section e for main contacts for auxiliary contacts 20 12 e f		
e solid e stranded e finely stranded with core end processing o solid e finely stranded with core end processing connectable conductor cross-section for auxiliary contacts e solid or stranded e finely stranded with core end processing o 5 4 mm² 0.5 4 mm² 0.5 4 mm² 10.5 4 mm² 10		
stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing o.5 4 mm² o.5 4 mm² o.5 4 mm² o.5 4 mm² o.5 2.5 mm² type of connectable conductor cross-sections of or auxiliary contacts	· · · · · · · · · · · · · · · · · · ·	
• stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts • for AWG cables for auxiliary contacts • for main contacts • for main contacts • for auxiliary contacts • for main contacts • for auxiliary contacts • for main contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts •		0.5 4 mm²
• finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts • for for auxiliary contacts • for main contacts • for main contacts • for main contacts • for main contacts • for auxiliary contacts • for main contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 • With low demand rate according to SN 31920 • With low demand rate according to SN 31920 • With low demand rate according to SN 31920 • With low demand rate according to SN 31920 • With low demand rate according to SN 31920 • With low demand rate according to SN 31920 • With low demand rate according to SN 31920 • With low demand rate according to SN 31920 • With low demand rate according to SN 31920 • With low demand rate according to SN 31920 • With low demand rate according to SN 31920 • With low demand rate according to SN 31920		0.5 4 mm²
solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts — solid or stranded — finely stranded with core end processing — for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section — for main contacts — for auxiliary contacts — with low demand rate according to SN 31920 40 %	finely stranded with core end processing	
• finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 • for auxiliary contacts 20 12 Indicated data Product function • mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 with low demand rate according to SN 31920 with low demand rate according to SN 31920 40 %	connectable conductor cross-section for auxiliary contacts	
type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 • for auxiliary contacts 20 12 • for auxiliary contacts • for auxiliary contacts 120 12 Safety related data Product function • mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 • with low demand rate according to SN 31920 40 %	• solid or stranded	0.5 4 mm²
 for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded with core end processing — for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section — for main contacts — for auxiliary contacts — for auxiliary	 finely stranded with core end processing 	0.5 2.5 mm²
- solid or stranded - finely stranded with core end processing of the AWG cables for auxiliary contacts • for AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 • with low demand rate according to SN 31920 • value with low demand rate according to SN 31920 • value value with low demand rate according to SN 31920 • value	type of connectable conductor cross-sections	
— finely stranded with core end processing • for AWG cables for auxiliary contacts 2x (20 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 2x 12 AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 20 12 3afety related data product function • mirror contact according to IEC 60947-4-1 Yes; with 3RH29 B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 40 %	for auxiliary contacts	
• for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 • for auxiliary contacts 20 12 Product function • mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 Proportion of dangerous failures • with low demand rate according to SN 31920 40 %	— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 safety related data product function • mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 40 %	 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
e for main contacts	for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 2x 12
for main contacts for auxiliary contacts for auxiliary contacts agety related data product function mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 40 %		
for auxiliary contacts 20 12 product function mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 40 %		20 12
product function • mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 40 %		
product function	·	20 12
 mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 40 % 		
B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 40 %		Yes: with 3RH29
proportion of dangerous failures ● with low demand rate according to SN 31920 40 %		
• with low demand rate according to SN 31920 40 %		. 555 550
		40 %
	_	

failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 a
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
suitability for use	
 safety-related switching on 	Yes
 safety-related switching OFF 	Yes
Cortificatos/ approvals	

Certificates/ approvals

General Product Approval



Confirmation





<u>KC</u>





Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













Marine / Shipping other Railway Environment



Confirmation



Confirmation

Vibration and Shock

Environmental Confirmations

Further information

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

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

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

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

Information on the packaging

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

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2016-1AK62-1AA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2016-1AK62-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-1AK62-1AA0

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

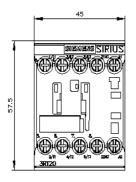
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2016-1AK62-1AA0&lang=en

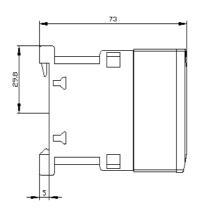
Characteristic: Tripping characteristics, I2t, Let-through current

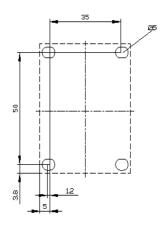
https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-1AK62-1AA0/char

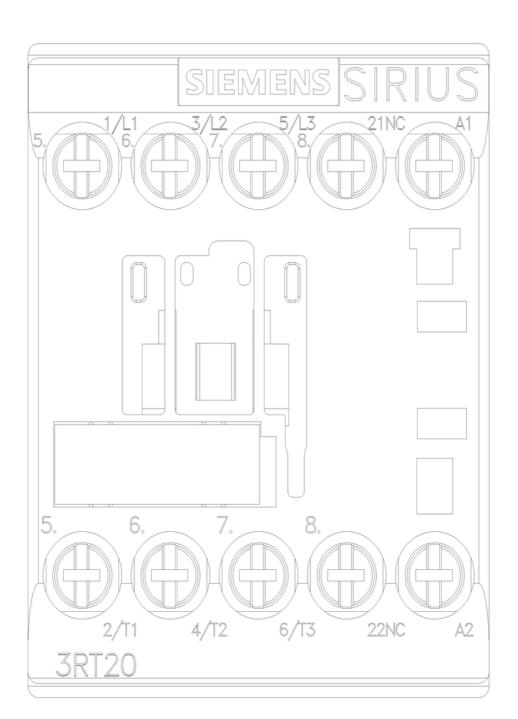
Further characteristics (e.g. electrical endurance, switching frequency)

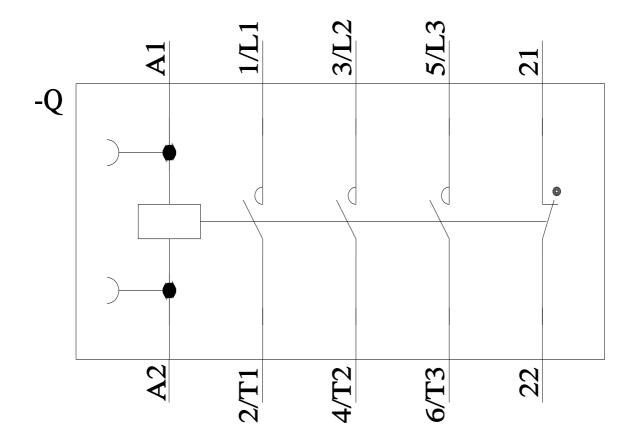
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2016-1AK62-1AA0&objecttype=14&gridview=view1











last modified: 2/10/2023 🖸