SIEMENS

Data sheet 3RT2023-4AP60



power contactor, AC-3 9 A, 4 kW / 400 V 1 NO + 1 NC, 220 V AC, 50 Hz 240 V, 60 Hz, 3-pole Size S0 ring cable lug connection

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S0
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	1.2 W
• per pole	0.4 W
power loss [W] for rated value of the current without load current share typical	7.9 W
surge voltage resistance	
 of main circuit rated value 	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for safe isolation between coil and main contacts acc. to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	7,5g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,8g / 5 ms, 7,4g / 10 ms
mechanical service life (switching cycles)	
 of contactor typical 	10 000 000
 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 acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.10.2009 00:00:00
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
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

operational current	40.4
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	40 A
• at AC-1	
 — up to 690 V at ambient temperature 40 °C rated value 	40 A
— up to 690 V at ambient temperature 60 $^{\circ}$ C rated value	35 A
• at AC-3	
— at 400 V rated value	9 A
— at 500 V rated value	9 A
— at 690 V rated value	9 A
 at AC-4 at 400 V rated value 	8.5 A
 at AC-5a up to 690 V rated value 	35.2 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 	11.4 A
 up to 400 V for current peak value n=20 rated value 	11.4 A
 up to 500 V for current peak value n=20 rated value 	9.1 A
 up to 690 V for current peak value n=20 rated value at AC-6a 	9 A
up to 230 V for current peak value n=30 rated value	7.6 A
 up to 400 V for current peak value n=30 rated value 	7.6 A
 up to 500 V for current peak value n=30 rated value 	6.1 A
— up to 690 V for current peak value n=30 rated value	6.1 A
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	4.1 A
at 690 V rated value	3.3 A
operational current	
• 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	1 A
— at 440 V rated value — at 600 V rated value	0.4 A 0.25 A
	0.25 A
 with 2 current paths in series at DC-1 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
with 3 current paths in series at DC-1	
— 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
— at 600 V rated value	1.4 A
operational current	
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	20 A

— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
 with 3 current paths in series at DC-3 at DC-5 	0.1071
— 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	0.0 A
• at AC-3	
	2.2 kW
— at 230 V rated value — at 400 V rated value	2.2 kW 4 kW
— at 500 V rated value	4 kW
— at 690 V rated value	7.5 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	20
up to 230 V for current peak value n=20 rated value	4.5 kV·A
• up to 400 V for current peak value n=20 rated value	7.8 kV·A
• up to 500 V for current peak value n=20 rated value	7.8 kV·A
• up to 690 V for current peak value n=20 rated value	10.7 kV·A
operating apparent power at AC-6a	10.7 KV A
• up to 230 V for current peak value n=30 rated value	3 kV·A
• up to 400 V for current peak value n=30 rated value	5.2 kV·A
up to 500 V for current peak value n=30 rated value	5.2 kV·A
up to 690 V for current peak value n=30 rated value	7.2 kV·A
short-time withstand current in cold operating state	1.2 NV A
up to 40 °C	
 limited to 1 s switching at zero current maximum 	170 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	170 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	122 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	78 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	68 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	1 000 1/h
• at AC-3 maximum	1 000 1/h
• at AC-4 maximum	300 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	220 V
at 60 Hz rated value	240 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	68 V·A
at 60 Hz	67 V·A
inductive power factor with closing power of the coil	
● at 50 Hz	0.72
● at 60 Hz	0.74
apparent holding power of magnet coil at AC	
at 50 Hz	7.9 V·A
● at 60 Hz	6.5 V·A
inductive power factor with the holding power of the coil	
● at 50 Hz	0.25
● at 60 Hz	0.28
closing delay	
• at AC	8 40 ms
opening delay	
• at AC	4 16 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 instantaneous contact	1
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
 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	1 hp
	1 hp 1 hp
— at 110/120 V rated value	
— at 110/120 V rated value— at 230 V rated value	
— at 110/120 V rated value— at 230 V rated value• for 3-phase AC motor	1 hp 2 hp
 at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value 	1 hp

— with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,8 gG: 10 A (500 V, 1 kA)	— at 575/600 V rated value	7.5 hp
design of the fuse link	contact rating of auxiliary contacts according to UL	A600 / P600
• for short-circuit protection of the main circuit - with type of coordination 1 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for swith side on the side • for grounded parts • for five parts • for fiv	Short-circuit protection	
- with type of coordination 1 required with type of assignment 2 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required Installation mounting/ dimensions mounting position fastening method side-by-side mounting side-by-side mounting with side-by-side mounting with side-by-side mounting - forwards - downwards - downwards - of ownwards - of ownwards - of ownwards - of ownwards - of rive parts - forwards - ownwards - ownwards - ownwards - ownwards - ownwards - ownwards - other side - for grounded parts - forwards - ownwards - other side - downwards - ownwards - of live parts - forwards - ownwards - ownwards - ownwards - of rive parts - forwards - ownwards - of rive parts - forwards - ownwards - of or grounded parts - forwards - other side - ownwards - of rive parts - forwards - other side - ownwards - of rive parts - forwards - other side - ownwards - of rive parts - forwards - other side - ownwards - of rive parts - forwards - other side - ownwards - other side - ownwards - other side - ownwards - o	design of the fuse link	
- with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation' mounting idlmensions mounting position fastening method • side-by-side mounting • with side-by-side mounting • orwards — upwards — upwards — at the side — downwards — at the side — downwards — at the side — downwards — upwards — the side — downwards — the side — downwards — upwards — the side — downwards — the side — downwards — upwards — the side — downwards — the side — downwards — upwards — upwards — the side — downwards — the side — downwards — upwards — upwards — upwards — the side — downwards — upwards — the side — downwards — upwards — upwar	for short-circuit protection of the main circuit	
Instaliation/mounting/dimensions mounting position fastening method side-by-side mounting with side-by-side mounting - forwards - ownwards - of for grounded parts - ownwards - of for grounded parts - ownwards - other side - downwards - of for file parts - forwards - of for file parts - forwards - of for file parts - forwards - ownwards - of for file parts - forwards - ownwards - of file parts - forwards - ownwards - ow	 — with type of coordination 1 required 	gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)
required mounting position mounting position fastening method side-by-side mounting e side-by-side mounting feepth required spacing • with side-by-side mounting - forwards - upwards - of grounded parts - for grounded parts - for wards - upwards - upwards - of magnet side - downwards - upwards - of main current circuit - downwards - downwards - downwards - downwards - upwards - the side - downwards - upwards - for grounded parts - for grounded parts - for live parts - for live parts - downwards - downwards - downwards - upwards - at the side - downwards - upwards - the side - downwards - the side - downwards - to mm - upwards - for live parts - for live parts - for live parts - for live parts - downwards - downward	— with type of assignment 2 required	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)
mounting position -/-180* rotation possible on vertical mounting surface: can be tilted forward and backward by +/- 22.5* on on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715		gG: 10 A (500 V, 1 kA)
forward and backward by ++ 22.5° on vertical mounting surface scree want snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 **e side-by-side mounting** **height** **width** **depth** **depth** **equired spacing** **with side-by-side mounting** **with side-by-side mounting** **equired spacing** **equired sp	Installation/ mounting/ dimensions	
side-by-side mounting height width depth required spacing with side-by-side mounting with side mounting with	mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
Neight Width Wid	fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
width depth 97 mm required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — upwards — 10 mm — of the side — downwards — at the side — downwards — at the side — downwards — to rive parts — forwards — for live parts — forwards — upwards — to mm — at the side — downwards — to mm — upwards — upwards — upwards — upwards — upwards — at the side — downwards — at the side — downwards — at the side — for rain current circuit — for auxiliary and control circuit • for auxiliary and control circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil Safety related data product function mirror contact acc. to IEC 60947-4-1 BIO value with high demand rate acc. to SN 31920 proportion of dangerous failures • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 † ves ves	side-by-side mounting	Yes
required spacing • with side-by-side mounting — forwards — upwards — at the side — of or grounded parts — forwards — upwards — 10 mm • for grounded parts — forwards — upwards — 10 mm — at the side — downwards — upwards — 10 mm — at the side — downwards — 10 mm • for live parts — forwards — 10 mm • for live parts — forwards — upwards — upwards — upwards — 10 mm • for wards — upwards — 10 mm • for wards — upwards — 10 mm • for wards — at the side Some connections/Terminals **Type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil **Safety related data **product function mirror contact acc. to IEC 60947-4-1 B10 value with high demand rate acc. to SN 31920 **proportion of dangerous fallures • with low demand rate acc. to SN 31920 **proportion of dangerous fallures • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with low demand rate acc. to SN 31920 • with low for proof test interval or service life acc. to IEC 60529 suitability for use • safety-related switching OFF Yes	height	85 mm
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side — for grounded parts — forwards — upwards — upwards — upwards — upwards — upwards — at the side — downwards — at the side — downwards — 10 mm — at the side — downwards — 10 mm — of rilive parts — forwards — 10 mm — downwards — 10 mm — upwards — 10 mm — upwards — downwards — 10 mm — at the side — downwards — at the side — forwards — upwards — 10 mm — at the side — forman upwards — of rilive parts — forwards — in mm — ownwards — at the side — for main current circuit — for auxiliary and control circuit — for auxiliary contacts — of magnet coil Safety related data product function mirror contact acc. to IEC 60947-4-1 Proportion of dangerous failures — with low demand rate acc. to SN 31920 — proportion of dangerous failures — with low demand rate acc. to SN 31920 — with high demand rate acc. to SN 31920 — with high demand rate acc. to SN 31920 — with low demand rate acc. to SN 31	width	45 mm
with side-by-side mounting forwards upwards downwards at the side for grounded parts forwards upwards 10 mm for grounded parts forwards upwards 10 mm 10 mm 10 mm for grounded parts forwards upwards 10 mm at the side for live parts for live parts forwards upwards for live parts forwards upwards for live parts forwards upwards for live mards for live parts forwards for live parts forwards for live parts forwards for live parts forwards for auxiliary and control circuit for auxiliary and control circuit for auxiliary and control circuit for auxiliary contacts for magnet coil Safety related data product function mirror contact acc. to IEC 60947-4-1 B10 value with high demand rate acc. to SN 31920 with low demand rate acc. to SN 31920 with low demand rate acc. to SN 31920 with ligh demand rate acc. to SN 31920 171 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 suitability for use safety-related switching OFF	depth	97 mm
forwards upwards downwards downwards at the side for grounded parts forwards upwards upwards upwards upwards at the side downwards upwards downwards downwards for live parts forwards forwards forwards upwards upwards upwards upwards upwards upwards downwards at the side downwards at the side formands -	required spacing	
- upwards 10 mm 10	with side-by-side mounting	
- downwards - at the side • for grounded parts - forwards - upwards - at the side - downwards - at the side - downwards - at the side - downwards • for live parts - forwards - upwards - to rive parts - forwards - upwards - upwards - upwards - upwards - upwards - upwards - downwards - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil Safety related data product function mirror contact acc. to IEC 60947-4-1 B10 value with high demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 171 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 suitability for use • safety-related switching OFF Yes	— forwards	10 mm
- at the side • for grounded parts - forwards - upwards - at the side - downwards • for live parts - forwards 10 mm • for live parts - forwards 10 mm • for wards 10 mm - upwards 10 mm - upwards 10 mm - downwards 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 • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil Safety related data product function mirror contact acc. to IEC 60947-4-1 B10 value with high demand rate acc. to SN 31920 • with low demand rate acc. to SN 31920 • with low demand rate acc. to SN 31920 • with low demand rate acc. to SN 31920 • with low demand rate acc. to SN 31920 • with low demand rate acc. to SN 31920 11 value for proof test interval or service life acc. to IEC 60529 protection class IP on the front acc. to IEC 60529 suitability for use • safety-related switching OFF Yes	— upwards	10 mm
• for grounded parts — forwards — upwards — at the side — downwards — 10 mm • for live parts — forwards — 10 mm • for live parts — forwards — upwards — upwards — upwards — downwards — at the side — downwards — at the side — forwards — upwards — at the side — formards — at the side — for mm Connections/ Terminals type of electrical connection • for main current circuit — for auxiliary and control circuit — at contactor for auxiliary contacts — of magnet coil Safety related data product function mirror contact acc. to IEC 60947-4-1 B10 value with high demand rate acc. to SN 31920 — with high demand	— downwards	10 mm
forwards	— at the side	0 mm
- upwards - at the side - downwards 10 mm • for live parts - forwards - upwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals type of electrical connection • for auxiliary and control circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil Safety related data product function mirror contact acc. to IEC 60947-4-1 B10 value with high demand rate acc. to SN 31920 • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 171 value for proof test interval or service life acc. to IEC 60529 protection class IP on the front acc. to IEC 60529 suitability for use • safety-related switching OFF Yes	for grounded parts	
- at the side	— forwards	10 mm
- downwards • for live parts - forwards - upwards - 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 Safety related data product function mirror contact acc. to IEC 60947-4-1 B10 value with high demand rate acc. to SN 31920 • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with low demand	— upwards	10 mm
• for live parts - forwards - upwards - upwards - downwards - at the side Connections/ Terminals type of electrical connection • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil Safety related data product function mirror contact acc. to IEC 60947-4-1 B10 value with high demand rate acc. to SN 31920 proportion of dangerous failures • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with low demand rate acc. to SN 31920 • with high demand rat	— at the side	6 mm
- forwards 10 mm - upwards 10 mm - downwards 6 mm Connections/ Terminals type of electrical connection	— downwards	10 mm
- upwards - 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 Ring cable lug connection Safety related data product function mirror contact acc. to IEC 60947-4-1 B10 value with high demand rate acc. to SN 31920 proportion of dangerous failures • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 100 FIT T1 value for proof test interval or service life acc. to IEC 60529 protection class IP on the front acc. to IEC 60529 suitability for use • safety-related switching OFF Yes	for live parts	
- 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 Safety related data product function mirror contact acc. to IEC 60947-4-1 B10 value with high demand rate acc. to SN 31920 proportion of dangerous failures • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 100 FIT T1 value for proof test interval or service life acc. to IEC 60529 protection class IP on the front acc. to IEC 60529 suitability for use • safety-related switching OFF Yes	— forwards	10 mm
— at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit Ring cable lug connection • at contactor for auxiliary and control circuit ring cable lug connection • at contactor for auxiliary contacts Ring cable lug connection • of magnet coil Ring cable lug connection Safety related data product function mirror contact acc. to IEC 60947-4-1 Yes B10 value with high demand rate acc. to SN 31920 450 000 proportion of dangerous failures • with low demand rate acc. to SN 31920 40 % • with high demand rate acc. to SN 31920 73 % failure rate [FIT] with low demand rate acc. to SN 31920 100 FIT T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 suitability for use • safety-related switching OFF Yes	— upwards	10 mm
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil Safety related data product function mirror contact acc. to IEC 60947-4-1 B10 value with high demand rate acc. to SN 31920 proportion of dangerous failures • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 failure rate [FIT] with low demand rate acc. to SN 31920 protection class IP on the front acc. to IEC 60529 suitability for use • safety-related switching OFF Ring cable lug connection Ring cable lug connection Yes 8450 000 40 % 40 % 40 % 20 y FIT 1 value for proof test interval or service life acc. to IEC 61508 Protection class IP on the front acc. to IEC 60529 suitability for use • safety-related switching OFF	— downwards	10 mm
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil Safety related data product function mirror contact acc. to IEC 60947-4-1 B10 value with high demand rate acc. to SN 31920 proportion of dangerous failures • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 • with proportion of the front acc. to SN 31920 failure rate [FIT] with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 suitability for use • safety-related switching OFF Yes	— at the side	6 mm
• for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil Safety related data product function mirror contact acc. to IEC 60947-4-1 B10 value with high demand rate acc. to SN 31920 proportion of dangerous failures • with low demand rate acc. to SN 31920 with high demand rate acc. to SN 31920 with high demand rate acc. to SN 31920 failure rate [FIT] with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to IEC 60529 protection class IP on the front acc. to IEC 60529 suitability for use • safety-related switching OFF Yes	Connections/ Terminals	
• for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil Safety related data product function mirror contact acc. to IEC 60947-4-1 B10 value with high demand rate acc. to SN 31920 proportion of dangerous failures • with low demand rate acc. to SN 31920 with high demand rate acc. to SN 31920 with high demand rate acc. to SN 31920 failure rate [FIT] with low demand rate acc. to SN 31920 failure rate IFIT] with low demand rate acc. to SN 31920 protection class IP on the front acc. to IEC 60529 protection class IP on the front acc. to IEC 60529 suitability for use • safety-related switching OFF Yes	type of electrical connection	
 at contactor for auxiliary contacts of magnet coil Ring cable lug connection Safety related data product function mirror contact acc. to IEC 60947-4-1 B10 value with high demand rate acc. to SN 31920 with low demand rate acc. to SN 31920 with high demand rate acc. to SN 31920 with high demand rate acc. to SN 31920 with high demand rate acc. to SN 31920 failure rate [FIT] with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 suitability for use safety-related switching OFF Yes 	for main current circuit	Ring cable lug connection
● of magnet coil Safety related data product function mirror contact acc. to IEC 60947-4-1 B10 value with high demand rate acc. to SN 31920 proportion of dangerous failures ● with low demand rate acc. to SN 31920 ● with high demand rate acc. to SN 31920 failure rate [FIT] with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 suitability for use ● safety-related switching OFF Ring cable lug connection Yes 450 000 40 % 40 % 50 V 73 % Find Carron	 for auxiliary and control circuit 	ring cable connection
Product function mirror contact acc. to IEC 60947-4-1 B10 value with high demand rate acc. to SN 31920 Proportion of dangerous failures • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 failure rate [FIT] with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 suitability for use • safety-related switching OFF Yes	 at contactor for auxiliary contacts 	Ring cable lug connection
product function mirror contact acc. to IEC 60947-4-1 B10 value with high demand rate acc. to SN 31920 proportion of dangerous failures • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 failure rate [FIT] with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 suitability for use • safety-related switching OFF Yes	of magnet coil	Ring cable lug connection
B10 value with high demand rate acc. to SN 31920 proportion of dangerous failures • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 failure rate [FIT] with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 suitability for use • safety-related switching OFF Yes	Safety related data	
proportion of dangerous failures • with low demand rate acc. to SN 31920 40 % • with high demand rate acc. to SN 31920 73 % failure rate [FIT] with low demand rate acc. to SN 31920 100 FIT T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 IP00 suitability for use • safety-related switching OFF Yes	product function mirror contact acc. to IEC 60947-4-1	Yes
 with low demand rate acc. to SN 31920 with high demand rate acc. to SN 31920 failure rate [FIT] with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 suitability for use safety-related switching OFF 40 % 73 % 100 FIT 20 y IP00 Yes 	-	450 000
 with high demand rate acc. to SN 31920 failure rate [FIT] with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 suitability for use safety-related switching OFF Yes 		
failure rate [FIT] with low demand rate acc. to SN 31920 T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 suitability for use • safety-related switching OFF Yes		
T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 suitability for use • safety-related switching OFF Yes	with high demand rate acc. to SN 31920	
protection class IP on the front acc. to IEC 60529 IP00 suitability for use • safety-related switching OFF Yes		100 FIT
suitability for use • safety-related switching OFF Yes	IEC 61508	·
safety-related switching OFF Yes	·	IP00
	-	
Certificates/ approvals	safety-related switching OFF	Yes
	Certificates/ approvals	
General Product Approval EMC	General Product Approval	EMC











Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

<u>KC</u>

Marine / Shipping

Type Examination Certificate



UK Declaration of Conformity Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping













other

Confirmation



Further information

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=3RT2023-4AP60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2023-4AP60

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2023-4AP60

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

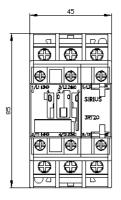
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2023-4AP60\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2023-4AP60\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2023-4AP60\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2023-4AP60\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2023-4AP60\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2023-4AP60\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2023-4AP60\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2023-4AP60\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2023-4AP60\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2023-4AP60&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2023-4AP60&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2023-4AP60&lang=ender.siemens.com/bilddb/cax_de.aspx.siemens.com/bil$

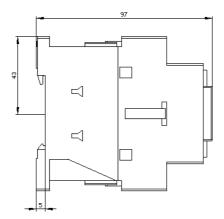
Characteristic: Tripping characteristics, I2t, Let-through current

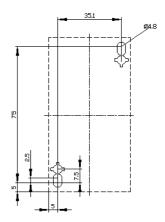
https://support.industry.siemens.com/cs/ww/en/ps/3RT2023-4AP60/char

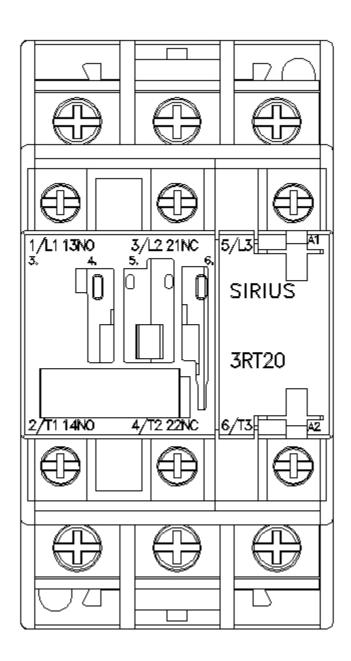
Further characteristics (e.g. electrical endurance, switching frequency)

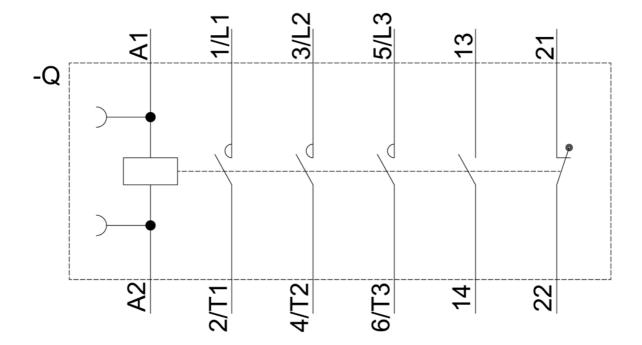
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2023-4AP60&objecttype=14&gridview=view1











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