SIEMENS

Data sheet 3RT2024-1BE40



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 60 V DC, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0 $\,$

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	0.9 W
 at AC in hot operating state per pole 	0.3 W
 without load current share typical 	5.9 W
type of calculation of power loss depending on pole	quadratic
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 DC	10g / 5 ms, 7,5g / 10 ms
shock resistance with sine pulse	
• at DC	15g / 5 ms, 10g / 10 ms
mechanical service life (operating cycles)	
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 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 %
Environmental footprint	

Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] total	221 kg
Global Warming Potential [CO2 eq] during manufacturing	2.65 kg
Global Warming Potential [CO2 eq] during manufacturing Global Warming Potential [CO2 eq] during operation	219 kg
Global Warming Potential [CO2 eq] after end of life	-0.639 kg
Main circuit	-0.000 kg
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	ŭ
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	40 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	40 A
— up to 690 V at ambient temperature 60 °C rated value	35 A
• at AC-3	40.4
— at 400 V rated value	12 A
— at 500 V rated value	12 A
— at 690 V rated value ◆ at AC-3e	9 A
— at 400 V rated value	12 A
— at 500 V rated value	12 A
— at 690 V rated value	9 A
at AC-4 at 400 V rated value	12.5 A
at AC-5a up to 690 V rated value	35.2 A
at AC-5b up to 400 V rated value	9.9 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	11.3 A
— up to 690 V for current peak value n=20 rated value	9 A
• at AC-6a	
 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 	7.6 A
— up to 690 V for current peak value n=30 rated value	7.6 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	5.5 A
at 690 V rated value	5.5 A
operational current	
• at 1 current path at DC-1	05.4
— at 24 V rated value	35 A
— at 60 V rated value	20 A
— at 110 V rated value	4.5 A
— at 220 V rated value— at 440 V rated value	1 A 0.4 A
— at 440 V rated value — at 600 V rated value	0.25 A
with 2 current paths in series at DC-1	0.20 / (
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	5 A
— at 440 V rated value	1A
— 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 60 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
 at 1 current path 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	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	0.0071
— at 24 V rated value	35 A
— at 60 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 	
— at 24 V rated value	35 A
— at 60 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	
• at AC-2 at 400 V rated value	5.5 kW
• at AC-3	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
	7.5 KV
operating power for approx. 200000 operating cycles at AC-	
at 400 V rated value	2.6 kW
at 690 V rated value	4.6 kW
operating apparent power at AC-6a	
up to 230 V for current peak value n=20 rated value	4.5 kVA
up to 400 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value	7.8 kVA
up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value	9.8 kVA
	10.7 kVA
up to 690 V for current peak value n=20 rated value	IV. / NVA
operating apparent power at AC-6a	2 1///
up to 230 V for current peak value n=30 rated value	3 kVA
• up to 400 V for current peak value n=30 rated value	5.2 kVA
• up to 500 V for current peak value n=30 rated value	6.5 kVA
up to 690 V for current peak value n=30 rated value	9 kVA
short-time withstand current in cold operating state up to 40 °C	
limited to 1 s switching at zero current maximum	210 A; Use minimum cross-section acc. to AC-1 rated value
limited to 7 s switching at zero current maximum	210 A; Use minimum cross-section acc. to AC-1 rated value
limited to 3 s switching at zero current maximum limited to 10 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 limited to 30's switching at zero current maximum	126 A; Use minimum cross-section acc. to AC-1 rated value
-	105 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 60 s switching at zero current maximum no load switching frequency	100 A, USE HIIIIIIIIII GIUSS-SEULOH AUG. LU AU-T TALEU VAIUE
no-load switching frequency	

a at DC	1 500 1/h
• at DC	1 500 1/11
operating frequency	4 000 4 lb
• 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-3e maximum	1 000 1/h
• at AC-4 maximum	300 1/h
Control circuit/ Control	20
type of voltage of the control supply voltage	DC
control supply voltage at DC rated value	2017
•	60 V
operating range factor control supply voltage rated value of magnet coil at DC	
• initial value	0.8
full-scale value	1.1
closing power of magnet coil at DC	5.9 W
holding power of magnet coil at DC	5.9 W
closing delay	
• at DC	50 170 ms
opening delay	
• at DC	15 18 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	1
contact	
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	11 A
• at 600 V rated value	11 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	1 hp
— at 230 V rated value	2 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	3 hp

= at 220230 Y rated value		
contact rating of auxillary contacts according to UL AB00 / PS00 design of the fuse link * for short-circuit protection of the main circuit — with type of coordination 1 required — for short-circuit protection of the auxillary evitorit required Protection of the auxillary evitority required Installation/mounting/dimensions mounting postion fastening method fastening method fastening method	— at 460/480 V rated value	·
Short-circult protection design of the fuse link	— at 575/600 V rated value	10 hp
design of the fuse link • for abort-circuit protection of the main circuit — with type of coordination 1 required — for schot-circuit protection of the auxiliary switch required first elitrouit mounting forms isons mounting possible fastening method fastening method screw and map-on mounting outlang surface, can be tiltled forward and backward by + 2.25 for vertical mounting surface. Screw type 4.25 for vertical mounting surface screw type 4.25 for vertical mounting surface screw type 4.25 for vertical mounting surface. Screw type 4.5 for mounting outlang to 5.5 mm DIN rail according to DIN EN 60715 4.16 mm 4.16 mm 4.16 or formal mounting surface, can be tiltled forward and backward by + 2.25 for vertical mounting surface. Screw type 4.5 mm 4.10 mm 1.0 mm 2.0 convexted 2.0 maxillary and control circuit 4.0 convexted 4.0 maxillary and control circuit 5.0 convexted conductor cross-sections 4.0 maxillary contacts 4.0 maxillary	contact rating of auxiliary contacts according to UL	A600 / P600
• for short-circuit protection of the main circuit — with type of assignment 2 required — set in the circuit protection of the auxiliary switch required installation mounting jetimensions mounting position # /180° rotation possible on vertical mounting surface, can be titled forward and backward by +2.25° on vertical mounting surface, can be titled forward and backward by +2.25° on vertical mounting surface, can be titled forward and backward by +2.25° on vertical mounting surface, can be titled forward and backward by +2.25° on vertical mounting surface, can be titled forward and backward by +2.25° on vertical mounting surface, can be titled forward and backward by +2.25° on vertical mounting surface, can be titled forward and backward by +2.25° on vertical mounting surface, can be titled forward and backward by +2.25° on vertical mounting surface, can be titled forward and backward by +2.25° on vertical mounting surface, can be titled forward and backward by +2.25° on vertical mounting surface, can be titled forward and backward by +2.25° on vertical mounting surface, can be titled forward and backward by +2.25° on vertical mounting surface, can be titled forward and backward by +2.25° on vertical mounting surface, can be titled forward and backward by +2.25° on vertical mounting surface, can be titled forward and backward by +2.25° on vertical mounting surface, can be titled forward and backward by +2.25° on vertical mounting surface, can be titled forward and backward by +2.25° on vertical mounting surface, can be titled forward and backward by +2.25° on vertical mounting surface, can be titled forward and backward by +2.25° on vertical mounting surface, can be titled forward and backward by the surface and be surfaced and to many and	Short-circuit protection	
with type of condination 1 required with type of assignment 2 required with type of assignment 2 required for short-circular protection of the auxiliary switch required for short-circular protection of the auxiliary switch required for short-circular protection of the auxiliary switch required	design of the fuse link	
- with type of assignment 2 required	 for short-circuit protection of the main circuit 	
* or short-circuit protection of the auxiliary switch required mounting differentiations **mounting position** **steening method** **steening met	 — with type of coordination 1 required 	
mounting position	— with type of assignment 2 required	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)
mounting position #*-190" rotation possible on vertical mounting surface can be tilled forward and backward by *-2.25 to method mounting surface. ### standing method ### stan	for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
backward by +7-2.2° on vertical mounting surface height	Installation/ mounting/ dimensions	
Assemming method Series and snep-on mounting onto 35 mm DIN rail according to DIN EN 60715 Notight Missing	mounting position	
Medital	fastening method	,
width 45 mm depth 107 mm required spacing 10 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - at he side 0 mm - forwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm - downwards 10 mm - for live parts 10 mm - downwards 10 mm - for will counted the side 6 mm Connectionship formalis 10 mm type of electrical connection screw-type terminals • for auxiliary and control circuit <td< td=""><td></td><td></td></td<>		
depth required spacing - with side-by-side mounting - forwards - upwards - downwards - downwards - at the side - forwards - upwards - upwards - upwards - upwards - at the side - downwards - upwards - at the side - downwards - in mm - downwards - forwards - upwards - forwards - upwards - forwards - upwards - downwards - upwards - downwards - upwards - downwards - in mm - at the side - downwards - downwards - in mm - at the side - for main current circuit - for main current circuit - for main current circuit - of a subiliary and control circuit - of a subiliary and control circuit - of or main current circuit - sold - for main current circuit - sold consectable conductor cross-sections - for main contacts - solid - solid or stranded - finely stranded with core end processing - s		
required spacing • with side-by-side mounting — forwards — upwards — ownwards — at the side • of rigrounded parts — for grounded parts — for grounded parts — ownwards — at the side — downwards — ownwards — ownwards — ownwards — ownwards — ownwards — forwards — forwards — ownwards — o		
• with side-by-side mounting - forwards - pywards - downwards - at the side - of many and a control circuit - of main current circuit - of a main current circuit - of a main current circuit - of a main current circuit - of main contactor for auxiliary and control circuit - of main contactor - of magnet coil - connectable conductor cross-sections - of magnet coil - connectable conductor cross-sections - for main contacts - solid - solid - solid or stranded - finely stranded with core end processing - for AWG cables for main contacts - solid - sitranded - inely stranded with core end processing - for well conductor cross-section for auxiliary contacts - 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 - finely stranded with core end processing - for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end	·	107 111111
forwards upwards upwards 10 mm 10		
- upwards	· -	10 mm
- downwards - at the side		
- at the side • for grounded parts - forwards - upwards - at the side - downwards • for live parts - forwards - the side - downwards - upwards - for live parts - forwards - upwards - 10 mm - upwards - 10 mm - upwards - downwards - downwards - downwards - at the side - for min current circuit • for main current circuit • for main current circuit • for main current circuit • for for main current circuit • for formain current circuit • for formain current circuit • for main current circuit • for main current circuit • for main contacts - solid - s	·	
• for grounded parts - (nowards - (nowards - 10 mm - upwards - 10 mm - downwards - (or live parts - (forwards - (nowards - (nowards) - (nowards - (nowards) - (nowards - (nowards) - (noward		
- forwards		
- upwards - at the side - downwards • for live parts - forwards - for we parts - forwards - downwards - at the side - downwards - at the side - formal control circuit • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • for auxiliary and control circuit • 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 • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for AWG cables for auxiliary contacts • solid or stranded • finely stranded with core end processing • for AWG cables 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 auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for suxiliary contacts • for formal cont	-	10 mm
- at the side - downwards 10 mm 10 m		
- downwards • for live parts - forwards - upwards - upwards - downwards - downwards - downwards - at the side Connections Torninals Type of electrical connection • for main 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 Type of connectable conductor cross-sections • for main contacts - solid - solid or stranded - finely stranded with core end processing • for MC stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • finely stranded with core end processing • for auxiliary contacts • finely stranded with core end processing • for auxiliary contacts • finely stranded with core end processing • for fawG cables for auxiliary contacts • finely stranded with core end processing • for AWG cables for auxiliary contacts • for auxiliary contacts	·	
- forwards		
- upwards - downwards - at the side 6 mm Connection/Torminals type of electrical connection • for main current circuit screw-type terminals • at contactor for auxiliary contacts • of magnet coil Screw-type terminals • for main contacts • for main contacts • for main contacts • solid - solid - solid - 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 - stranded - finely stranded with core end processing - solid - stranded - finely stranded with core end processing - solid - stranded - finely stranded with core end processing - stranded -	·	10 mm
- downwards — at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • at contactor for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • at contactor for auxiliary contacts • of magnet coil Screw-type terminals for main contacts - solid Screw-type terminals 2x (1 2.5 mm²), 2x (2.5 10 mm²) - finely stranded with core end processing 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • for AWG cables for main contacts • solid • stranded • finely stranded with core end processing 1 10 mm² • finely stranded with core end processing 2 10 mm² • finely stranded with core end processing 1 10 mm² • finely stranded with core end processing 2 10 mm² • finely stranded with core end processing 3 10 mm² • finely stranded with core end processing 4 10 mm² • finely stranded with core end processing 5 2.5 mm² • for auxiliary contacts • for AWG cables for auxiliary contacts • for fauxiliary contac		
Connections/ Terminals type of electrical connection • for main current circuit • at contactor 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 • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • for auxiliary contacts • solid • finely stranded with core end processing • 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 auxiliary contacts • solid or stranded • finely stranded with core end processing • 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 auxiliary contacts • solid or stranded • finely stranded with core end processing • 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 auxiliary contacts • solid or stranded — finely stranded with core end processing • 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 auxiliary contacts • solid or stranded — finely stranded with core end processing • for auxiliary contacts • for auxiliary contacts • solid or stranded — finely stranded with core end processing • for auxiliary contacts • for auxiliary conta	•	
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 • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coll Screw-type terminals Screw-type terminals Type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — solid or stranded with core end processing • for AWG cables for main contacts • solid • solid — 1 10 mm² • solid • solid • solid • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • solid or stranded • finely stranded with core end processing tund mm² • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts • solid or stranded • for auxiliary contacts — solid or stranded — solid or stranded — finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts • for AWG cables for auxiliary contacts • for AWG cables for auxiliary contacts • for nain contacts 16 8 		screw-type terminals
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solid 2x (1 2.5 mm²), 2x (2.5 10 mm²) solid 2x (1 2.5 mm²), 2x (2.5 10 mm²) finely stranded with core end processing 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • for AWG cables for main contacts 2x (16 12), 2x (14 8) connectable conductor cross-section for main contacts • solid 1 10 mm² • stranded 1 10 mm² • finely stranded with core end processing 1 10 mm² connectable conductor cross-section for auxiliary contacts • solid or stranded 0.5 2.5 mm² • 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) finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14) AWG number as coded connectable conductor cross section • for main contacts 16 8		
- 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 • finely stranded with core end processing • 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 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 AWG cables for auxiliary contacts AWG number as coded connectable conductor cross-section • for main contacts 16 8		2x (1 2.5 mm²), 2x (2.5 10 mm²)
- finely stranded with core end processing • for AWG cables for main contacts • solid • stranded • finely stranded with core end processing • 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 • for auxiliary contacts • 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 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 16 8		
 for AWG cables for main contacts 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 0.5 2.5 mm² type of connectable conductor cross-sections for auxiliary contacts solid or stranded for auxiliary contacts — solid or stranded — finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) for AWG cables for auxiliary contacts 2x (20 1.5 mm²), 2x (18 14) AWG number as coded connectable conductor cross section for main contacts 16 8 		
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 • 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) - finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts 16 8		
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 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 solid or stranded for auxiliary contacts finely stranded with core end processing finely stranded with core end processing for AWG cables for auxiliary contacts for AWG number as coded connectable conductor cross section for main contacts for main contacts 16 8 		
connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts — solid or stranded — solid or stranded — solid or stranded — finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) — finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts 16 8		
 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 for AWG number as coded connectable conductor cross section for main contacts 16 8 		
 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 for AWG number as coded connectable conductor cross section for main contacts 16 8 		0.5 2.5 mm²
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 16 8	 finely stranded with core end processing 	
 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 main contacts for main contacts 		
 — solid or stranded — finely stranded with core end processing ● for AWG cables for auxiliary contacts ■ for main contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14) AWG number as coded connectable conductor cross section ■ for main contacts 16 8 		
— finely stranded with core end processing • for AWG cables for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14) AWG number as coded connectable conductor cross section • for main contacts 16 8		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
● for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14) AWG number as coded connectable conductor cross section ● for main contacts 16 8		
AWG number as coded connectable conductor cross section • for main contacts 16 8		
	AWG number as coded connectable conductor cross	
• for auxiliary contacts 20 14	• for main contacts	16 8
	• for auxiliary contacts	20 14

Safety related data	
product function	
 mirror contact according to IEC 60947-4-1 	Yes
 positively driven operation according to IEC 60947-5-1 	No
 suitable for safety function 	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	
 with low demand rate according to SN 31920 	40 %
 with high demand rate according to SN 31920 	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
T1 value	
 for proof test interval or service life according to IEC 61508 	20 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



Confirmation





<u>KC</u>

General Product Approval

EMV

Functional Saftey

Test Certificates

Marine / Shipping





Type Examination Certificate

Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report



Marine / Shipping









Miscellaneous

other

Confirmation

Railway

Dangerous Good

Environment

Special Test Certific-<u>ate</u>

Transport Information



Environmental Confirmations

Further information

Information on the packaging

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

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2024-1BE40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2024-1BE40

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

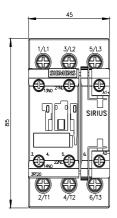
https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-1BE40

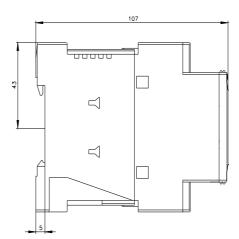
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2024-1BE40&lang=en

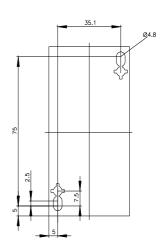
Characteristic: Tripping characteristics, I2t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-1BE40/char

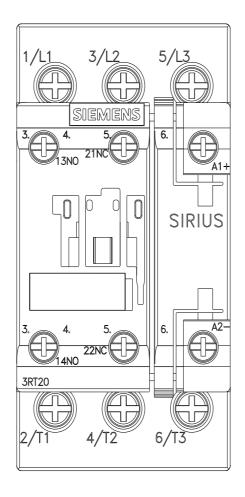
Further characteristics (e.g. electrical endurance, switching frequency)

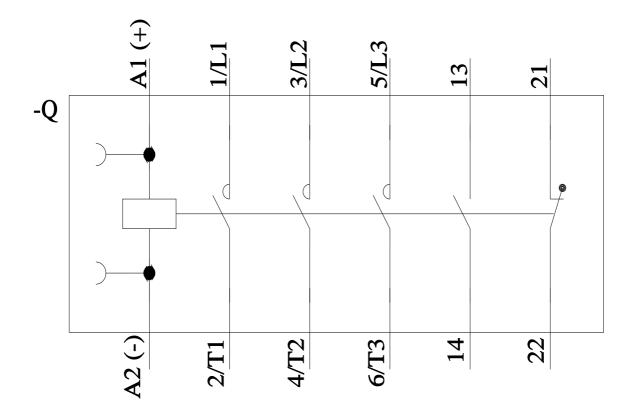
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2024-1BE40&objecttype=14&gridview=view1











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