SIEMENS

Data sheet

3RT2517-1BB40



power contactor, AC-3, 12 A, 5.5 kW / 400 V, 4-pole, 24 V DC, main contacts: 2 NO + 2 NC, screw terminal, size: S00

product brand name	SIRIUS
product designation	contactor
product type designation	3RT25
General technical data	
size of contactor	S00
product extension	
 function module for communication 	No
 auxiliary switch 	Yes
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 ∨
shock resistance at rectangular impulse	
• at DC	7.3g / 5 ms, 4.7g / 10 ms
shock resistance with sine pulse	
• at DC	11,4g / 5 ms, 7,3g / 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	4
number of NO contacts for main contacts	2
number of NC contacts for main contacts	2
operational current	
• at AC-1 up to 690 V	

at ambient temperature 40 °C roted value	22 A
— at ambient temperature 40 °C rated value	22 A
 — at ambient temperature 60 °C rated value at AC-2 at AC-3 at 400 V 	20 A
	40.4
per NO contact rated value	12 A 9 A
per NC contact rated value minimum cross-section in main circuit at maximum AC-1 rated	4 mm ²
value	* 1000
operational current	
 at 1 current path at DC-1 	
— at 24 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
 with 2 current paths in series at DC-1 	
— at 24 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 1 current path at DC-3 at DC-5	
— at 24 V per NC contact rated value	20 A
— at 24 V per NO contact rated value	20 A
— at 110 V per NC contact rated value	0.075 A
— at 110 V per NO contact rated value	0.15 A
— at 220 V per NC contact rated value	0.375 A
— at 220 V per NO contact rated value	0.75 A
with 2 current paths in series at DC-3 at DC-5 at 24 \/ par NC contact rated value	20.4
— at 24 V per NC contact rated value	20 A 20 A
 — at 24 V per NO contact rated value — at 110 V per NC contact rated value 	0.175 A
— at 110 V per NO contact rated value	0.35 A
operating power at AC-2 at AC-3	0.00 / 1
at 230 V per NC contact rated value	2.2 kW
at 230 V per NO contact rated value	3 kW
 at 400 V per NC contact rated value 	4 kW
 at 400 V per NO contact rated value 	5.5 kW
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	125 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	123 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	96 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	74 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	61 A; Use minimum cross-section acc. to AC-1 rated value
power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor	1.2 W
no-load switching frequency	
• at AC	10 000 1/h
• at DC	10 000 1/h
operating frequency at AC-1 maximum 	1 000 1/h
• at AC-1 maximum Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC	
rated value	24 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	4 W
holding power of magnet coil at DC	4 W
closing delay	
• at DC	30 100 ms
opening delay	

arcting time 10 15 ms Auxiliary clouds 0 Auxiliary clouds 0 Constant 0 Constant 0 Operational current at AC-12 maximum 10 A Operational current at AC-12 maximum 10 A Operational current at AC-12 maximum 10 A Operational current at AC-12 0 • 41 40 V inder value 5 A Operational current at AC-12 0 • 41 40 V inder value 5 A Operational current at DC-12 0 A • 41 40 V inder value 5 A • 41 40 V inder value	● at DC	7 13 ms		
Ausliery circuit 0 contact 0 <t< td=""><td>arcing time</td><td>10 15 ms</td></t<>	arcing time	10 15 ms		
muther of NC contacts for invokany contacts instantaneous 0 contact 0 operational current at AC-12 mushimum 0 operational current at AC-12 0 operational current at AC-12 0 operational current at AC-13 0 ottad status 0 operational current at AC-13 0 ottad status 0 operational current at AC-13 0 ottad status 0 ottad stat				
contact 10 A operational current at AC-12 maximum 10 A - att 30 V rated value 3 A operational current at AC-12 maximum 3 A - att 400 V rated value 6 A - att 30 V rated value 6 A - att 40 V rated value 6 A - att 10 V rated value 2 A - att 30 V rated value 0.3 A - att 300 V rated value 0.1 A - att 300 V rated value 0.1 A - att 300 V rated value 1 fully avaitabring profiliant (TV, 1 mA) JUCSA rating avaitabry contacts 1 fully avaitabring profiliant (TV, 1 mA) JUCSA rating avaitabry contacts according to UL 2 Abol (AbdO - of at bord-forcical profiliant exocrd	number of NC contacts for auxiliary contacts instantaneous	0		
operational current at AC-15 ID A • at 230 Y rated value ID A • at 40 Y rated value ID A • at 40 Y rated value ID A • at 40 Y rated value ID A • at 10 Y rated value ID A • at 00 P axito		0		
• at 230 V refer yolue 0.A • at 430 V refer yolue 0.A • at 450 V refer yolue 0.A • at 45 V refer yolue 0.A • at 45 V refer yolue 0.A • at 10 V refer yolue 0.A • at 120 V refer yolue 0.A • at 120 V refer yolue 0.A • at 220 V refer yolue 0.15 A operational current at DC-13 0.A • at 20 V refer yolue 0.15 A operational current at DC-13 0.A • at 80 V refer yolue 0.1 A context reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UldGA Artifly Sea 1 faulty switching per 100 million (17 V, 1 mA) UldGA refer yolue 0.1 A context reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UldGA refer yolue 0.1 A context reliability of auxiliary contacts according to UL 8600 / G800 Shot-forcing refer yolue 5 hp context reliability of auxiliary contacts according to UL 8600 / G800 Shot-forcing refer yolue 5 hp contact reliability of auxiliary contacts according to UL 8600 / G800 Shot-forcing refer yolue 5 hp contact reliability of auxiliary contacts according to UL <td< td=""><td>operational current at AC-12 maximum</td><td>10 A</td></td<>	operational current at AC-12 maximum	10 A		
• at 400 Y rated value 3 A operational current at DC-12 • • at 40 V rated value 6 A • at 60 V rated value 6 A • at 120 V rated value 3 A • at 120 V rated value 2 A • at 200 V rated value 0.15 A operational current at DC-13 • • at 20 V rated value 0.16 A operational current at DC-13 • • at 40 V rated value 0.16 A • at 60 V rated value 2 A • at 60 V rated value 0.1 A • at 60 V rated value 0.1 A • at 60 V rated value 0.1 A constact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UCISA rating bease AC motor at 20 V rated value 5 ltp • for 3 phase AC motor at 20 V rated value 5 ltp • for 3 phase AC motor at 20 V rated value 5 ltp • for 3 phase AC motor at 20 V rated value 5 ltp • for 3 phase AC motor at 20 V rated value 5 ltp • for 3 phase AC motor at execuring to UL Aceo / 2600 Stored-trait protection of the main cicuit • with type of coordination 1 required <td>operational current at AC-15</td> <td></td>	operational current at AC-15			
operational current at DC-12 6 A • at 60 V rated value 6 A • at 110 V rated value 3 A • at 120 V rated value 3 A • at 220 V rated value 1 A • at 200 V rated value 0.15 A Operational current at DC-13 10 A • at 24 V rated value 10 A • at 40 V rated value 0.15 A operational current at DC-13 10 A • at 40 V rated value 0.1 A • at 30 V rated value 0.3 A • at 300 V rated value 0.3 A • at 300 V rated value 0.1 A • at 300 V rated value 0.1 A • at 300 V rated value 0.1 A • ot 300 V rated value 0.1 A • ot 300 V rated value 0.1 A • ot 300 V rated value 2 hp • for single-phase AC motor at 230 V rated value 2 hp • ot 300 V rated value 2 hp • ot 3 show at 200 V rated value 2 hp • ot 3 show at 200 V rated value 2 hp • ot 3 show at 200 V rated value 2 hp • o	• at 230 V rated value	10 A		
• at 48 V rated value 6 A • at 160 V rated value 6 A • at 125 V rated value 2 A • at 250 V rated value 0.15 A • of 200 V rated value 0.15 A • of 200 V rated value 0.16 A • of 200 V rated value 2 A • of 100 V rated value 2 A • of 200 V rated value 0.1 A • of ado value 0.1 A • of or single-phase AC motor at 6020 V rated value 0.1 A • of or single-phase AC motor at 6020 V rated value 5 hp • of or single-phase AC motor at 6020 V rated value 5 hp • of or single-phase AC motor at 6020 V rated value 5 hp • of or single-phase AC motor at 6020 V rated value 5 hp • of or single-phase AC motor at 6020 V rated value 5 hp • of single-phase AC motor at 6020 V rated value 5 hp • of single-phase AC motor at 6020 V rated value 6 (600 V, 100 KA) • of single-phase AC motor at 6020 V rated value 5 hp • of single-phase AC motor at 6020 V rated value 5 hp • of single-phase AC motor at 60400 V rated value 5 hp • of sindle-facilit protection of the main circuit <td>• at 400 V rated value</td> <td>3 A</td>	• at 400 V rated value	3 A		
• at 60 V rated value 6 Å • at 120 V rated value 3 Å • at 220 V rated value 0.15 Å • at 200 V rated value 0.15 Å operational current # DC-13 - • at 80 V rated value 10 Å • at 81 V rated value 2 Å • at 81 V rated value 2 Å • at 81 V rated value 2 Å • at 80 V rated value 2 Å • at 80 V rated value 0.3 Å • at 80 V rated value 0.1 Å • at 800 V rated value 0.1 Å • of or 3 phase AC motor at 230 V rated value 2 hp • for a single-phase AC motor at 230 V rated value 2 hp • for so short-circuit protection of the main circuit - • for short-circuit protection of the main circuit - • for short-circuit protection of the assice g6: 25 Å (690 V, 100 kA) • for short-circuit protection of the assice side-by-side mounting surface; can	operational current at DC-12			
• at 110 V rated value 3 Å • at 120 V rated value 2 Å • at 200 V rated value 0.15 Å oporational current at DC-13 10 Å • at 24 V rated value 10 Å • at 45 V rated value 2 Å • at 46 V rated value 2 Å • at 46 V rated value 2 Å • at 47 V rated value 2 Å • at 10 V rated value 2 Å • at 20 V rated value 0.3 Å • at 200 V rated value 0.1 Å • at 200 V rated value 0.1 Å contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) VLCSA rated 0.1 Å contact reliability of auxiliary contacts according to UL A600 / Q600 • for sigle-phase AC motor at 230 V rated value 2 hp • for sigle-phase AC motor at 230 V rated value 5 hp • for short-focul protection Contact at 400/480 V rated value • for short-focul protection of the main circuit - • for short-focul protection of the main circuit - • for short-focul protection of the auxiliary switch required gG: 35 Å (690 V, 100 kÅ) • for short-focul protection of the auxiliary switch required gG: 20 Å (690V, 100 kÅ) • for short-focul protection of the auxiliary switch required gG: 20 Å (690V, 100 kÅ)	• at 48 V rated value	6 A		
• at 125 V rated value 2 A • at 220 V rated value 0.15 A operational current at DC-13 • • at 24 V rated value 10 A • at 45 V rated value 2 A • at 45 V rated value 2 A • at 40 V rated value 2 A • at 40 V rated value 0.3 A • at 60 V rated value 0.3 A • at 60 V rated value 0.3 A • at 600 V rated value 0.1 A • or at 600 V rated value 0.1 A • or at 600 V rated value 0.1 A • or at 600 V rated value 0.1 A • or or 3-phase AC motor at 230 V rated value 2 hp • for single-phase AC motor at 230 V rated value 2 hp • for single-phase AC motor at 230 V rated value 2 hp • for short-circuit protection of the main circuit - with hype of coordination 1 required • of short-circuit protection of the main circuit - with hype of coordination 1 required • or short-circuit protection of the auxilary switch required fs: 20A (680V, 100 kA) • for short-circuit protection of the auxilary switch required fs: 20A (680V, 100 kA) • for short-circuit protection of the auxilary switch required fs: 20A (680V, 100 kA) • for short-circuit protection of the auxilary switch required fs: 20A (680V, 100 kA) • f	• at 60 V rated value	6 A		
• at 220 V rated value 0.18 A • at 200 V rated value 0.18 A • at 24 V rated value 0.18 A • at 24 V rated value 10 A • at 24 V rated value 10 A • at 80 V rated value 2 A • at 80 V rated value 2 A • at 80 V rated value 0.3 A • at 800 V rated value 0.3 A • at 800 V rated value 0.1 A • at 800 V rated value 0.1 A • at 800 V rated value 0.1 A • otrostop: phase AC motor 20 V rated value 0.1 A • otrostop: phase AC motor 20 V rated value 2 hp • for solphic-phase AC motor 20 V rated value 5 hp • otrostop: phase AC motor 20 V rated value 5 hp • for solphic-chicult protection of the main circuit - • for solphic-chicult protection of the main circuit - • with type of coordination 1 required gC: 35 A (690 V, 100 kA) • for solphic-chicult protection of the auxiliary switch required gC: 20 (690V, 100 kA) • for solphic-chicult protection of the main circuit - • with type of coordination 1 required gC: 25 A (690 V, 100 kA) • for solphic-chicult protection of the main circuit - • with type of coordination 1 required gC: 20 (690V, 100 kA) • for solp	• at 110 V rated value	3 A		
• at 600 V rated value 0.15 Å operational current at DC-13 10 Å • at 24 V rated value 2 Å • at 60 V rated value 2 Å • at 60 V rated value 2 Å • at 10 V rated value 0.3 Å • at 220 V rated value 0.3 Å • at 600 V rated value 0.1 Å contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mÅ) ULCSA- ratings	• at 125 V rated value	2 A		
operational current at DC-13 • at 24 V rade value 10 A • at 40 V rade value 2 A • at 60 V rade value 2 A • at 100 V rade value 2 A • at 20 V rade value 0.3 A • at 200 V rade value 0.3 A • at 200 V rade value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings	• at 220 V rated value	1 A		
• st 24 V rated value 10 A • at 80 V rated value 2 A • at 80 V rated value 2 A • at 100 V rated value 1 A • at 220 V rated value 0.3 A • at 200 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) U/CSA ratings Vielded mechanical performance [hp] • for single-phase AC motor at 200 V rated value 2 hp • for single-phase AC motor at 4020 V rated value 5 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-dircuit protection design of the fuse link • for single-phase AC motor at 200 V rated value 5 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-dircuit protection design of the fuse link • for short-dircuit protection of the main circuit - with type of coordination 1 required gG: 35 A (690 V, 100 kA) gG: 20A (690V, 100 kA) • for short-dircuit protection of the main circuit - with type of assignment 2 required gG: 20A (690V, 100 kA) gG: 35 A (690 V, 100 kA) gg = 20 file gG: 35 A (690 V, 100 kA) fastening method server and snep-on mounting surface; can be tilted forward and baccording to DIN EN 50022 e side-by-side mounting - for short-dircu	• at 600 V rated value	0.15 A		
• at 48 V rated value 2 A • at 60 V rated value 2 A • at 60 V rated value 1 A • at 220 V rated value 0.3 A • at 800 V rated value 0.1 A • at 800 V rated value 0.1 A • ortato reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings Vielded mechanical performance (hp) • for single-phase AC motor at 200 V rated value 5 hp • contact reliability of auxiliary contacts according to UL A600 V (600 Short-circuit protection of the main circuit - • or short-ficial protection of the main circuit - • or short-circuit protection of the main circuit - • or short-circuit protection of the main circuit - • or short-circuit protection of the main circuit - • or short-circuit protection of the main circuit - • or short-circuit protection of the auxiliary switch required gG: 35 A (690 V, 100 kA) • for short-circuit protection of the auxiliary switch required gG: 35 A (690 V, 100 kA) • with tige be of coordination 1 required gG: 35 A (690 V, 100 kA) • side-by-side mounting - • for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required • for wards O mm <td>operational current at DC-13</td> <td></td>	operational current at DC-13			
• at 80 V rated value 2 A • at 110 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) UCSA ratings VicSA rating value vicSA rating of auxiliary contacts 2 hp • for single-phase AC motor at 230 V rated value 2 hp • for single-phase AC motor at 420480 V rated value 2 hp • for single-phase AC motor at 4200480 V rated value 5 hp • for short-circuit protection A600 / 0600 Short-circuit protection of the required gG: 35 A (690 V, 100 kA) • with size of coordination 1 required gG: 35 A (690 V, 100 kA) • with size of coordination 1 required gG: 35 A (690 V, 100 kA) • with size of coordination 1 required gG: 35 A (690 V, 100 kA) • for short-circuit protection of the auxiliary switch required fuse gG: 10 A Instantion mounting dimensions Formation mounting position ±/160" rotation possible on vertical mounting surface; can be lifted forward and beckward by +/: 2.2" on vertical mounting surface; can be lifted forward and beckward by +/: 2.5" on vertical mounting surface; can be lifted forward and beckward by +/: 2.5" on vertical mounting surface; can be lifted forward and beckward by +/: 2.5" on vertical mounting surface;	• at 24 V rated value	10 A		
• at 110 V rated value 1 A • at 200 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UP (10 million (17 V, 1 mA) <td (10="" colspan="2" mi<="" td="" up=""><td>• at 48 V rated value</td><td>2 A</td></td>	<td>• at 48 V rated value</td> <td>2 A</td>		• at 48 V rated value	2 A
• at 220 V rated value 0.3 Å • at 600 V rated value 0.1 Å contact rollability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mÅ) UL/CSA ratings 1 vielded mechanical performance (hp) • • for single-phase AC motor at 200 V rated value 2 hp • for single-phase AC motor at 460/480 V rated value 5 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection Gis 35 Å (690 V, 100 kÅ) - for short-circuit protection of the main circuit - - with type of coordination 1 required gG: 35 Å (690 V, 100 kÅ) - with type of coordination 1 required gG: 20 Å (690 V, 100 kÅ) - for short-circuit protection of the auxiliary switch required 1/180° rotation possible on vertical mounting surface; can be tilted forward and backward by 4/- 22. ⁶ on vertical mounting surface; can be tilted forward and backward by 4/- 22. ⁶ on vertical mounting surface; can be tilted forward and backward by 4/- 22. ⁶ on vertical mounting surface; can be tilted forward and backward by 4/- 22. ⁶ on vertical mounting surface; can be tilted forward and backward by 4/- 22. ⁶ on vertical mounting surface; can be tilted forward and backward by 4/- 22. ⁶ on vertical mounting surface; can be tilted forward and backward by 4/- 22. ⁶ on vertical mounting surface; can be tilted forward and backward by 4/- 22. ⁶ on vertical mounting surface; can be tilted forward and backward by 4/- 22. ⁶ on vertical mounting surface; can be tilted forward and backward by 4/- 22. ⁶ on vertical mounting surface; can	• at 60 V rated value	2 A		
• at 600 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) U/CSA ratings yielded mechanical performance [hp] • for single-phase AC motor at 230 V rated value 2 hp • for 3-phase AC motor at 460/480 V rated value 5 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit	• at 110 V rated value	1 A		
contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) ULCSA ratings yielded mechanical performance [hp] • (or single-phase AC motor at 230 V rated value 5 hp • (or single-phase AC motor at 200 V rated value 5 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection	• at 220 V rated value	0.3 A		
UL/CSA ratings yielded mechanical performance (hp) • for single-phase AC motor at 230 V rated value • for single-phase AC motor at 420/480 V rated value • for shnese AC motor at 420/480 V rated value 5 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required • for short-circuit protection of the auxiliary switch required fastening method • for short-circuit protection of the auxiliary switch required fastening method • side-by-side mounting +/-180" rotation possible on vertical mounting surface; can be tilted forward and backward by +/-22.5" on vertical mounting surface; fastening method screw and snap-on mounting outface; e side-by-side mounting Yes height 57.5 mm width 45 mm depth 73 mm required spacing 0 mm • with side-by-side mounting 0 mm - ackwards 0 mm - downwards	• at 600 V rated value	0.1 A		
yielded mechanical performance [hp] 2 hp • for single-phase AC motor at 230 V rated value 2 hp • for 3-phase AC motor at 460/480 V rated value 5 hp constart ating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection Gission of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of coordination 1 required gG: 35 A (690 V, 100 kA) - with type of assignment 2 required gG: 20A (680V, 100 kA) • for short-circuit protection of the auxiliary switch required fase GS: 10 A Installation mounting of dimensions +/180° rotation possible on vertical mounting surface; can be tilled forward and backward by +/-22.5° on vertical mounting surface fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022 • side-by-side mounting -/180° rotation possible on vertical mounting surface; can be tilled forward and backward by +/-22.5° on vertical mounting surface midth 45 mm deepth 7.3 mm width 45 mm - howards 0 mm - backwards 0 mm - downwards 0 mm - forwards	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)		
 for single-phase AC motor at 280 V rated value for 3-phase AC motor at 480/480 V rated value for 3-phase AC motor at 480/480 V rated value for 3-phase AC motor at 480/480 V rated value for short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of assignment 2 required gG: 35 A (680 V, 100 kA) - with type of assignment 2 required gG: 20A (680V, 100 kA) for short-circuit protection of the audiary switch required full function possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; ide-by-side mounting - side-by-side mounting yes height for short-difference ide-by-side mounting yes ide-by-side mounting - forwards o mm - downwards o mm - downwards o mm - forwards o mm - forwards o mm - forwards o mm - downwards o mm - downwards o mm - downwards o mm - downwards o mm - forwards o mm - downwards o mm - forwards o mm - forwards o mm - forwards o mm - forwards	UL/CSA ratings			
• for 3-phase AC motor at 460/480 V rated value 5 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection Geign of the fuse link • for short-circuit protection of the main circuit	yielded mechanical performance [hp]			
contact rating of auxillary contacts according to UL A600 / Q600 Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit gG: 35 A (690 V, 100 kA) - with type of assignment 2 required gG: 20A (690V, 100 kA) • for short-circuit protection of the auxiliary switch required fuse gG: 10 A Installation/mounting/dimensions +/180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/-22.5° on vertical mounting surface; can be tilted forward and backward by +/-22.5° on vertical mounting surface; can be tilted forward and backward by +/-22.5° on vertical mounting surface; can be tilted forward and backward by +/-22.5° on vertical mounting surface; can be tilted forward and backward by +/-22.5° on vertical mounting surface; can be tilted forward and backward by +/-22.5° on vertical mounting surface; can be tilted forward and backward by +/-22.5° on vertical mounting surface; can be tilted forward and backward by +/-22.5° on vertical mounting surface; can be tilted forward and backward by +/-22.5° on vertical mounting surface; can be tilted forward and backward by +/-22.5° on vertical mounting surface; can be tilted forward and backward by +/-22.5° on vertical mounting surface; can be tilted forward and backward by +/-22.5° on vertical mounting surface; can be tilted forward and backward by +/-22.5° on vertical mounting surface; can be tilted forward and backward by +/-22.5° on vertical mounting surface; can be tilted forward and backward by +/-22.5° on vertical mounting surface; can be tilted forward and backward by +/-23.5° on vertical mounting surface; can be tilted forward and backward by +/-23.5° on vertical mounting surface; can be tilted forward and back	 for single-phase AC motor at 230 V rated value 	2 hp		
Short-circuit protection design of the fuse link - with type of coordination 1 required - with type of assignment 2 required - with type of assignment 2 required - with type of assignment 2 required Installation/ mounting/dimensions mounting position +/-180° rotation possible on vertical mounting surface; can be tilled forward and backward by +/-22.5° on vertical mounting surface; can be tilled forward and backward by +/-22.5° on vertical mounting surface; can be tilled forward and backward by +/-22.5° on vertical mounting surface; can be tilled forward and backward by +/-22.5° on vertical mounting surface; can be tilled forward and backward by +/-22.5° on vertical mounting surface; can be tilled forward and backward by +/-22.5° on vertical mounting surface; can be tilled forward and backward by +/-22.5° on vertical mounting surface; can be tilled forward and backward by +/-22.5° on vertical mounting surface; can be tilled forward and backward by +/-22.5° on vertical mounting surface; can be tilled forward and backward by +/-22.5° on vertical mounting surface; can be tilled forward and backward by +/-22.5° on vertical mounting surface; can be tilled forward and backward by +/-22.5° on vertical mounting surface; can be tilled forward and backward by +/-22.5° on vertical mounting surface; can be tilled forward and backward by +/-22.5° on vertical mounting surface; can be tilled forward and backward by +/-22.5° on vertical mounting surface; can be tilled forward and backward by +/-22.5° on vertical mounting surface; can be tilled forward and backward by +/-22.5° on vertical mounting surface; can be tilled forward and backward by +/-22.5° on vertical mounting surface; can be tilled forward and backward by +/-22.5° on	 for 3-phase AC motor at 460/480 V rated value 	5 hp		
design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required gG: 35 A (690 V, 100 kA) gG: 30 A (690 V, 100 kA) for short-circuit protection of the auxiliary switch required fuse gG: 10 A Installation/ mounting dimensions mounting position +/180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/-22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022 side-by-side mounting Yes height 45 mm depth 73 mm required spacing with side-by-side mounting - forwards 0 mm - downwards 0 mm - at the side - forwards - max	contact rating of auxiliary contacts according to UL	A600 / Q600		
• for short-circuit protection of the main circuit gG: 35 A (690 V, 100 kA) - with type of assignment 2 required gG: 20A (690V, 100 kA) - with type of assignment 2 required fuse gG: 10 A Installation/ mounting/ dimensions fuse gG: 10 A mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilte	Short-circuit protection			
with type of coordination 1 required gG: 35 A (690 V, 100 kA) with type of assignment 2 required gG: 20A (690V, 100 kA) i for short-circuit protection of the auxiliary switch required fuse gG: 10 A Installation/ mounting/ dimensions +/180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/. 22.5° on vertical mounting surface; can be tilted forward and backward by +/. 22.5° on vertical mounting surface; can be tilted forward and backward by +/. 22.5° on vertical mounting surface; can be tilted forward and backward by +/. 22.5° on vertical mounting surface; can be tilted forward and backward by +/. 22.5° on vertical mounting surface; can be tilted forward and backward by +/. 22.5° on vertical mounting surface; can be tilted forward and backward by +/. 22.5° on vertical mounting surface; can be tilted forward and backward by +/. 22.5° on vertical mounting surface; can be tilted forward and backward by +/. 22.5° on vertical mounting surface; can be tilted forward and backward by +/. 22.5° on vertical mounting surface; can be tilted forward and backward by +/. 22.5° on vertical mounting surface; can be tilted forward and backward by +/. 22.5° on vertical mounting surface; can be tilted forward and backward by +/. 22.5° on vertical mounting surface; can be tilted forward and backward by +/. 22.5° on vertical mounting surface; can be tilted forward and backward by +/. 22.5° on vertical mounting surface; can be tilted forward and backward by +/. 22.5° on vertical mounting surface; can be tilted forward and backward by forwards - forwards 0 mm - forwards 0 mm - downwards 0 mm - forwards 0 mm - forwards 0 mm	design of the fuse link			
with type of assignment 2 required gG: 20A (690V, 100kA) • for short-circuit protection of the auxiliary switch required fuse gG: 10 A Installation/ mounting/ dimensions +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/-22.5° on vertical mounting surface fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022 • side-by-side mounting Yes height 57.5 mm width 45 mm depth 73 mm required spacing omm • with side-by-side mounting 0 mm - forwards 0 mm - at the side 0 mm - at the side 0 mm - forwards 0 mm - forwards 0 mm - at the side 0 mm - backwards 0 mm - forwards 0 mm - at the side 0 mm - forwards 0 mm - at th	 for short-circuit protection of the main circuit 			
• for short-circuit protection of the auxiliary switch required fuse gG: 10 A Installation/ mounting/ dimensions +/180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/. 22.5° on vertical mounting surface fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022 • side-by-side mounting Yes height 57.5 mm width 45 mm depth 73 mm required spacing • • with side-by-side mounting 0 mm - forwards 0 mm - backwards 0 mm - at the side 0 mm - forwards 0 mm - at the side 0 mm - backwards 0 mm - at the side 0 mm - forwards 0 mm - forwards 0 mm - at the side 0 mm - backwards 0 mm - forwards 0 mm <td< td=""><td> — with type of coordination 1 required </td><td>gG: 35 A (690 V, 100 kA)</td></td<>	 — with type of coordination 1 required 	gG: 35 A (690 V, 100 kA)		
Installation/ mounting/ dimensions +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022 • side-by-side mounting Yes height 57.5 mm width 45 mm depth 73 mm required spacing 0 mm - forwards 0 mm - downwards 0 mm - at the side 0 mm - backwards 0 mm - at the side 0 mm - backwards 0 mm - at the side 0 mm - backwards 0 mm - forwards 0 mm - at the side 0 mm - at the side 6 mm - downwards 0 mm - forwards 0 mm - forwards 0 mm - forwards 0 mm	 — with type of assignment 2 required 	gG: 20A (690V, 100kA)		
mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022 • side-by-side mounting Yes height 57.5 mm width 45 mm depth 73 mm required spacing 0 mm - forwards 0 mm - upwards 0 mm - downwards 0 mm - for grounded parts 0 mm - forwards 0 mm - at the side 0 mm - downwards 0 mm - at the side 0 mm - downwards 0 mm - forwards 0 mm	for short-circuit protection of the auxiliary switch required	fuse gG: 10 A		
backward by +/- 22.5° on vertical mounting surface fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022 • side-by-side mounting Yes height 57.5 mm width 45 mm depth 73 mm required spacing 73 mm • with side-by-side mounting 0 mm - forwards 0 mm - backwards 0 mm - upwards 0 mm - at the side 0 mm - forwards 0 mm - at the side 0 mm - upwards 0 mm - at the side 0 mm - downwards 0 mm - at the side 0 mm - at the side 0 mm - at the side 0 mm - forwards 0 mm - downwards 0 mm - forwards 0 mm - forwards 0 mm - downwards<	Installation/ mounting/ dimensions			
• side-by-side mounting Yes height 57.5 mm width 45 mm depth 73 mm required spacing 73 mm • with side-by-side mounting 0 mm - forwards 0 mm - backwards 0 mm - upwards 0 mm - downwards 0 mm - at the side 0 mm - forwards 0 mm - forwards 0 mm - at the side 0 mm - backwards 0 mm - forwards 0 mm - backwards 0 mm - at the side 6 mm - downwards 0 mm - for live parts 0 mm - forwards 0 mm	mounting position			
height 57.5 mm width 45 mm depth 73 mm required spacing - • with side-by-side mounting 0 mm - forwards 0 mm - backwards 0 mm - upwards 0 mm - downwards 0 mm - at the side 0 mm - for grounded parts 0 mm - forwards 0 mm - backwards 0 mm - at the side 0 mm - forwards 0 mm	-			
width 45 mm depth 73 mm required spacing - • with side-by-side mounting 0 mm - forwards 0 mm - backwards 0 mm - upwards 0 mm - downwards 0 mm - downwards 0 mm - at the side 0 mm - for grounded parts 0 mm - forwards 0 mm - at the side 6 mm - downwards 0 mm - for live parts 0 mm - forwards 0 mm				
depth73 mmrequired spacing73 mm• with side-by-side mounting0 mm- forwards0 mm- backwards0 mm- upwards0 mm- downwards0 mm- at the side0 mm• for grounded parts0 mm- backwards0 mm- backwards0 mm- forwards0 mm- forwards0 mm- forwards0 mm- backwards0 mm- backwards0 mm- upwards0 mm- at the side6 mm- downwards0 mm- forwards0 mm- forwards0 mm				
required spacing Image: orgen space sp				
with side-by-side mounting0 mm- forwards0 mm- backwards0 mm- upwards0 mm- downwards0 mm- downwards0 mm- at the side0 mm- for grounded parts0 mm- forwards0 mm- forwards0 mm- backwards0 mm- backwards0 mm- backwards0 mm- backwards0 mm- upwards0 mm- upwards0 mm- for upwards0 mm- at the side6 mm- downwards0 mm- for live parts	•	73 mm		
- forwards0 mm- backwards0 mm- upwards0 mm- downwards0 mm- at the side0 mm• for grounded parts0 mm- forwards0 mm- backwards0 mm- at the side6 mm- downwards0 mm- for live parts				
- backwards0 mm- upwards0 mm- downwards0 mm- at the side0 mm- at the side0 mm- for grounded parts0 mm- forwards0 mm- backwards0 mm- backwards0 mm- upwards0 mm- at the side6 mm- at the side6 mm- downwards0 mm- for live parts0 mm- for wards0 mm				
upwards0 mm downwards0 mm at the side0 mm at the side0 mm• for grounded parts forwards0 mm backwards0 mm backwards0 mm upwards0 mm at the side6 mm at the side6 mm downwards0 mm for live parts0 mm forwards0 mm				
- downwards0 mm- at the side0 mm• for grounded parts0 mm- forwards0 mm- backwards0 mm- backwards0 mm- upwards0 mm- at the side6 mm- at the side6 mm- downwards0 mm- for live parts0 mm- for wards0 mm				
- at the side0 mm• for grounded parts0 mm- forwards0 mm- backwards0 mm- upwards0 mm- at the side6 mm- downwards0 mm- for live parts0 mm- forwards0 mm				
• for grounded parts0 mm- forwards0 mm- backwards0 mm- upwards0 mm- at the side6 mm- downwards0 mm• for live parts0 mm- forwards0 mm				
- forwards 0 mm - backwards 0 mm - upwards 0 mm - at the side 6 mm - downwards 0 mm - for live parts 0 mm - forwards 0 mm		0 mm		
- upwards0 mm- at the side6 mm- downwards0 mm• for live parts- forwards- forwards0 mm		U mm		
- at the side 6 mm - downwards 0 mm • for live parts - forwards - forwards 0 mm				
- downwards 0 mm • for live parts 0 mm - forwards 0 mm	— backwards			
for live parts forwards 0 mm	— backwards — upwards	0 mm		
- forwards 0 mm	backwardsupwardsat the side	0 mm 6 mm		
	 backwards upwards at the side downwards 	0 mm 6 mm		
— backwards 0 mm	 backwards upwards at the side downwards for live parts 	0 mm 6 mm 0 mm		
	 backwards upwards at the side downwards for live parts forwards 	0 mm 6 mm 0 mm		

— upwards			0 mm			
— downwards — at the side			0 mm			
			6 mm			
Connections/ Terminals		_				
type of electrical conr						
for main current			screw-type terminals			
 for auxiliary and control circuit at contactor for auxiliary contacts 			screw-type terminals			
at contactor for auxiliary contacts of magnet coil			Screw-type terminals			
of magnet coil type of connectable conductor cross-sections for main contacts			Screw-type terminals			
type of connectable conductor cross-sections for main contacts						
solid			2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), 2x 4 mm ²			
solid or stranded			2x (0,5 1,5 mm²), 2x (0,75			
finely stranded with core end processing			2x (0.5 1.5 mm²), 2x (0.75	. 2.5 mm²)		
	onductor cross-sections	5				
 for auxiliary containing 	acts			0 - 0 0 0 0		
— solid			2x (0.5 1.5 mm²), 2x (0.75			
— solid or stra			2x (0.5 1.5 mm²), 2x (0.75			
-	ded with core end process	-	2x (0.5 1.5 mm²), 2x (0.75			
	for auxiliary contacts		2x (20 16), 2x (18 14), 2x	12		
main contacts	connectable conductor c	ross section for	20 12			
Safety related data						
product function						
 mirror contact ac 	cording to IEC 60947-4-1		Yes; with 3RH29			
 positively driven 	operation according to IEC	C 60947-5-1	No			
T1 value for proof test i 61508	nterval or service life acco	ording to IEC	20 a			
protection class IP on	the front according to I	EC 60529	IP20			
touch protection on th	ne front according to IEC	60529	finger-safe, for vertical contact	from the front		
Certificates/ approvals						
General Product App	roval				EMC	
	roval				EMC	
	roval	Confirmation	መ	C 0 1	EMC	
	roval	<u>Confirmation</u>	(UL)	EAC		
	roval	<u>Confirmation</u>	(UL) UL	EAC		
General Product App			UL UL	EAC	RCM	
General Product App	roval		UL UL Test Certificates	EAC	EMC ECM Marine / Shipping	
General Product App		mity	Type Test Certific-	ERC Special Test Certific- ate	RCM	
General Product Appr General Product Appr Contemposities Functional Safety/Safety of Ma- chinery Type Examination Cer-		mity		ERC Special Test Certific- ate	RCM	
General Product Appr General Product Appr Contemposities Functional Safety/Safety of Ma- chinery Type Examination Cer-			Type Test Certific-		RCM	
General Product Appr General Product Appr Contemposities Functional Safety/Safety of Ma- chinery Type Examination Cer-	Declaration of Confor	mity	Type Test Certific-		Marine / Shipping	
General Product Appr General Product Appr Contemposities Functional Safety/Safety of Ma- chinery Type Examination Cer-	Declaration of Confor	mity	Type Test Certific-		Marine / Shipping	
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General Product Appr General Product Appr Second States Functional Safety/Safety of Ma- chinery Type Examination Cer- tificate	Declaration of Confor	mity	Type Test Certific-		Marine / Shipping	
General Product Appr General Product Appr Second States Functional Safety/Safety of Ma- chinery Type Examination Cer- tificate	Declaration of Confor	mity	Type Test Certific-		Marine / Shipping	
General Product Appr General Product Appr Second States Functional Safety/Safety of Ma- chinery Type Examination Cer- tificate	Declaration of Confor	mity	Type Test Certific-		Marine / Shipping	
General Product Appr General Product Appr Second States Functional Safety/Safety of Ma- chinery Type Examination Cer- tificate	Declaration of Confor	mity	Type Test Certific-		Marine / Shipping	
General Product Appr General Product Appr Second States Functional Safety/Safety of Ma- chinery Type Examination Cer- tificate	Declaration of Confor	Wity UK CA	Type Test Certific-		Marine / Shipping	
General Product Appr General Product Appr Second States Functional Safety/Safety of Ma- chinery Type Examination Cer- tificate	Declaration of Confor	Wity UK CA	Type Test Certific-		Marine / Shipping	
General Product Appr General Product Appr Contemporal States Functional Safety/Safety of Ma- chinery Type Examination Cer- tificate Marine / Shipping	Declaration of Confor	mity UK LIKS	Type Test Certific- ates/Test Report	ate	Marine / Shipping	
General Product Appr General Product Appr Contemporal States Functional Safety/Safety of Ma- chinery Type Examination Cer- tificate Marine / Shipping	Declaration of Confor	mity UK LIKS	Type Test Certific- ates/Test Report Image: Content of the second seco	ate	Marine / Shipping	
General Product Appr General Product Appr Functional Safety/Safety of Ma- chinery Type Examination Cer- tificate Marine / Shipping	Declaration of Confor	mity UK Kesser Lts Railway	Type Test Certific- ates/Test Report Image: Content of the second seco	ate	Marine / Shipping	
General Product Appr General Product Appr Functional Safety/Safety of Ma- chinery Type Examination Cer- tificate Marine / Shipping	Declaration of Confor	mity UK Kesser Lts Railway	Type Test Certific- ates/Test Report Image: Content of the second seco	ate	Marine / Shipping	
General Product Appr General Product Appr Functional Safety/Safety of Ma- chinery Type Examination Cer- tificate Marine / Shipping	Declaration of Confor	mity UK Kesser Lts Railway	Type Test Certific- ates/Test Report Image: Content of the second seco	ate	Marine / Shipping	
General Product Appr General Product Appr Functional Safety/Safety of Ma- chinery Type Examination Cer- tificate Marine / Shipping	Declaration of Confor	mity UK Kesser Lts Railway	Type Test Certific- ates/Test Report Image: Content of the second seco	ate	Marine / Shipping	

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=3RT2517-1BB40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2517-1BB40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2517-1BB40

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

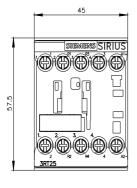
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2517-1BB40&lang=en

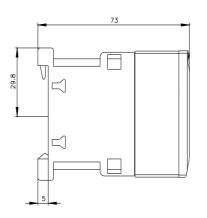
Characteristic: Tripping characteristics, I²t, Let-through current

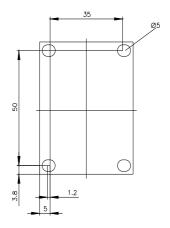
https://support.industry.siemens.com/cs/ww/en/ps/3RT2517-1BB40/char

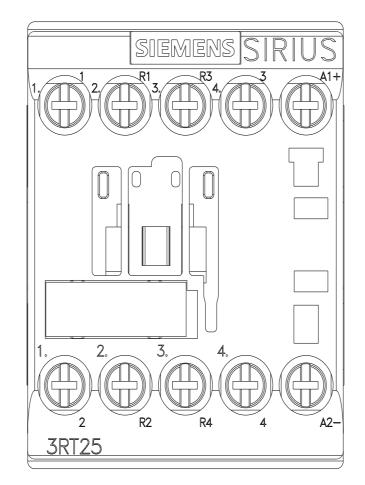
Further characteristics (e.g. electrical endurance, switching frequency)

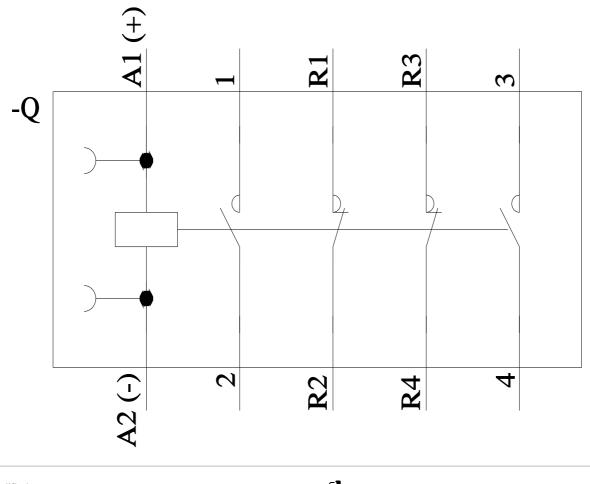
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2517-1BB40&objecttype=14&gridview=view1











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