SIEMENS

Data sheet 3RT2517-1BB40



Power contactor, AC-3 12 A, 5.5 kW / 400 V 2 NO + 2 NC 24 V DC 4-pole Size S00 screw terminals

product brand name	SIRIUS
product designation	contactor
product type designation	3RT25
General technical data	0.1120
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 safe isolation between coil and main contacts according to EN 60947-1	400 V
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 rated value 	22 A
 at ambient temperature 60 °C rated value 	20 A
 at AC-2 at AC-3 at 400 V 	
 per NO contact rated value 	12 A
 per NC contact rated value 	9 A
minimum cross-section in main circuit at maximum AC-1	4 mm²
rated value	
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 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 	0.175 A
 — at 110 V per NO contact rated value 	0.35 A
operating power at AC-2 at AC-3	
 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	405 At the mainimum error postion and to AC 4 rated value
Ilimited 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 limited to 20 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 limited to 60 s switching at zero current maximum 	74 A; Use minimum cross-section acc. to AC-1 rated value 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	1.2 W
operational current per conductor	1.2 VV
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
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	
• at DC	7 13 ms

Auxiliary circuit	arcing time	10 15 ms
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value 10 A		
instantaneous contact unwher of No contacts for auxiliary contacts instantaneous contact propretional current at AC-12 maximum poperational current at AC-18 • at 200 V rated value • at 400 V rated value • at 400 V rated value • at 48 V rated value • at 100 V rated value • at 110 V rated value • at 1220 V rated value • at 220 V rated value • at 220 V rated value • at 48 V rated value • at 84 V rated value • at 80 V rated value • at 84 V rated value • at 84 V rated value • at 84 V rated value • at 85 V rated value • at 80 V rated value • for short-circular protection • for short-circular protection design of the fuse link • for short-circul protection of the main circuit • with type of coordination I required • for short-circular protection of the main circuit • with type of coordination I required • for short-circular protection of the main circuit • with type of coordination I required • for short-circular protection of the main circuit • with type of coordination I required • for short-circular protection of the main circuit • with type of coordination I required • for short-circular protection of the main circuit • with type of coordination I required • for short-circular protection of the main circuit • with type of coordination I required • for short-circuit protection of the main circuit • for short-circuit protection	number of NC contacts for auxiliary contacts	0
instantaneous contact operational current at AC-12 maximum operational current at AC-18	instantaneous contact	
a # 230 V rated value		0
e at 230 V rated value	operational current at AC-12 maximum	10 A
a st 400 V rated value 6 A	operational current at AC-15	
a # 48 / 7 rated value	 at 230 V rated value 	10 A
a st 80 / rated value	 at 400 V rated value 	3 A
at 10 V rated value	operational current at DC-12	
a at 110 V fated value	 at 48 V rated value 	6 A
at 125 V rated value 2 A 1 A	 at 60 V rated value 	6 A
• at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 43 V rated value • at 600 V rated value • for 3-phase AC motor at 400/480 V rated value • for 3-phase AC motor at 400/480 V rated value • for 3-phase AC motor at 400/480 V rated value • for 3-phase AC motor at 400/480 V rated value • for 3-phase AC motor at 400/480 V rated value • for 5-phase AC motor at 400/480 V rated value • for 5-phase AC motor at 400/480 V rated value • for 5-phase AC motor at 400/480 V rated value • for 5-phase AC motor at 400/480 V rated value • for 5-phase AC motor at 400/480 V rated value • for 5-phase AC motor at 400/480 V rated value • for 5-phase AC motor at 400/480 V rated value • for 5-phase AC motor at 400/480 V rated value • for short-circuit protection of the main circuit — with type of coordination 1 required • for short-circuit protection of the main circuit 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 grounded parts — ownwards — ownwards — ownwards • for live parts — forwards — ownwards • for live parts — forwards — ownwards • for live parts — forwards — ownwards • for live parts — own at 200 V rated value 1 A A A A A A A A A A A A A	at 110 V rated value	3 A
at 800 V rated value 0.15 A	 at 125 V rated value 	2 A
e at 24 V rated value	 at 220 V rated value 	1 A
at 24 V rated value at 80 V rated value 2 A at 60 V rated value 2 A at 60 V rated value 3 A 110 V rated value 3 A 3 A 3 A 4 110 V rated value 3 A 0.1	at 600 V rated value	0.15 A
at 48 V rated value at 60 V rated value 2 A at 110 V rated value 1 A at 110 V rated value 2 A at 110 V rated value 3 A 3 A at 220 V rated value 0 1 A 1 faulty switching per 100 million (17 V, 1 mA) ULCSA ratings yielded mechanical performance [hp] 6 for single-phase AC motor at 230 V rated value 6 for 3-phase AC motor at 460/480 V rated value 6 for 3-phase AC motor at 460/480 V rated value 6 for 4-phase AC motor at 460/480 V rated value 7 for 3-phase AC motor at 460/480 V rated value 8 for short-circuit protection design of the fuse link 9 for short-circuit protection of the main circuit 9 with type of coordination 1 required 9 for short-circuit protection of the auxiliary switch 1 fuse gG: 10 A Installation/mounting/dimensions mounting position fastening method 1 side-by-side mounting 1 with side-by-side mounting 2 with side-by-side mounting 3 mm 4 mm	operational current at DC-13	
at 80 V rated value at 110 V rated value at 120 V rated value at 200 V rated value at 800 V rated value 3 1 600 V rated value 0 1 A 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings yielded mechanical performance [hp] for single-phase AC motor at 230 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 with 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value for 3-phase AC motor at 480/480 V rated value with 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value for 3-phase AC motor at 480/480 V rated value with 1 faulty switch rate value with 1 faulty switch required with 1 faulty switch required with 1 faulty switch required for short-circuit protection of the auxiliary switch required with 1 faulty switch required for short-circuit protection of the auxiliary switch required with 1 faulty switch required for short-circuit protection of the auxiliary switch required with 1 faulty switching surface scan be titled forward and backward by 1 faulty surface; can be titled forward and backward by 1 faulty surface; can be titled forward and backward by 1 faulty surface; can be titled forward and backward by 1 faulty surface; can be titled forward and backward by 1 faulty surface; can be titled forward and backward by 1 faulty surface; can be titled forward and backward by 1 faulty surface; can be titled forward and backward by 1 faulty surface; can be titled forward and backward by 1 faulty switch required spacing with side-by-side mounting wit	 at 24 V rated value 	10 A
at 110 V rated value at 220 V rated value at 220 V rated value contact reliability of auxiliary contacts UL/CSA ratings yleided mechanical performance [hp] befor single-phase AC motor at 230 V rated value for 3-phase AC motor at 460/480 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection 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 auxiliary switch required for short-circuit protection of the auxiliary switch required sistening method fastening method side-by-side mounting with side-by-side mounting with side-by-side mounting with side-by-side mounting with side-by-side mounting at the side downwards - upwards - downwards - at the side - downwards - at the side - downwards - forwards - forwards - at the side - downwards - forwards - forwards - forwards - at the side - downwards - at the side - forwards - forw	 at 48 V rated value 	2 A
at 220 V rated value at 600 V rated value 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings ylelded mechanical performance [hp] 6 or single-phase AC motor at 230 V rated value contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection design of the fuse link 6 or short-circuit protection of the main circuit — with type of coordination 1 required — with type of coordination 1 required 6 of rshort-circuit protection of the auxiliary switch required 8 for short-circuit protection of the auxiliary switch required 8 for short-circuit protection of the auxiliary switch required 8 for short-circuit protection of the auxiliary switch required 8 for short-circuit protection of the auxiliary switch required 9 for short-circuit protection of the auxiliary switch required 9 for short-circuit protection of the auxiliary switch forward and backward by +2 2.5 on vertical mounting surface; can be titled forward and backward by +2 2.5 on vertical mounting surface; can be titled forward and backward by +2 2.5 on vertical mounting surface; can be titled forward and backward by +2 2.5 on vertical mounting surface; can be titled forward and backward by +2 2.5 on vertical mounting surface; can be titled forward and backward by +2 2.5 on vertical mounting surface; can be titled forward and backward by +2 2.5 on vertical mounting surface; can be titled forward and backward by +2 2.5 on vertical mounting surface; can be titled forward and backward by +2 2.5 on vertical mounting surface; can be titled forward and backward by +2 2.5 on vertical mounting surface; can be titled forward and backward by +2 2.5 on vertical mounting surface; can be titled forward and backward by +2 2.5 on vertical mounting surface; can be titled forward and backward by +2 2.5 on vertical mounting surface; can be titled forward and backward by +2 2.5 on vertical mounting surface; can be titled forward and ba	 at 60 V rated value 	2 A
at 800 V rated value contact reliability of auxiliary contacts ULCSA ratings yielded mechanical performance [hp] • for single-phase AC motor at 230 V rated value contact rating of auxiliary contacts according to UL 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 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 fuse gG: 20A (690 V, 100 kA) • fuse gG: 10 A **ge: 20A (690 V, 100 kA) **fuse gG: 10 A **ge: 20A (690 V, 100 kA) **fuse gG: 10 A **ge: 20A (690 V, 100 kA) **fuse gG: 10 A **ge: 20A (690 V, 100 kA) **fuse gG: 10 A **ge: 20A (690 V, 100 kA) **fuse gG: 10 A **ge: 20A (690 V, 100 kA) **fuse gG: 10 A **ge: 20A (690 V, 100 kA) **fuse gG: 20A (690 V, 100 kA	• at 110 V rated value	1 A
vertical reliability of auxiliary contacts VIL/CSA ratings yielded mechanical performance [hp] • for single-phase AC motor at 480/480 V rated value contact rating of auxiliary contacts according to UL 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 Installation/mounting/dimensions wounting position fastening method • side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • forwards — upwards — downwards — downwards — at the side • for grounded parts — forwards — upwards — downwards — at the side • for grounded • for parts — forwards — downwards — at the side — downwards — or mm — at the side — downwards — at the side — downwards — or mm — at the side — downwards — or mm — at the side — downwards — or mm —	at 220 V rated value	0.3 A
yielded mechanical performance [hp] • for single-phase AC motor at 230 V rated value • for 3-phase AC motor at 460/480 V rated value contact rating of auxiliary contacts according to UL 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 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 main circuit - with type of coordination 1 required gG: 35 A (690 V, 100 kA) fuse gG: 10 A f	at 600 V rated value	0.1 A
yielded mechanical performance [hp] • for single-phase AC motor at 230 V rated value • for 3-phase AC motor at 460/480 V rated value contact rating of auxiliary contacts according to UL 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 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 main circuit - with type of coordination 1 required gG: 35 A (690 V, 100 kA) fuse gG: 10 A f		1 faulty switching per 100 million (17 V, 1 mA)
yielded mechanical performance [hp] • for single-phase AC motor at 230 V rated value • for 3-phase AC motor at 480/480 V rated value contact rating of auxiliary contacts according to UL 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 cossignment 2 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 • fastening method **THEO** rotation possible on vertical mounting surface; can be titled forward and backward by +/- 22.5° on vertical mounting surface; can be titled forward and backward by +/- 22.5° on vertical mounting surface; can be titled forward and backward by +/- 22.5° on vertical mounting surface; can be titled forward and backward by +/- 22.5° on vertical mounting surface; can be titled forward and backward by +/- 22.5° on vertical mounting surface; can be titled forward and backward by +/- 22.5° on vertical mounting surface; can be titled forward and backward by +/- 22.5° on vertical mounting surface; can be titled forward and backward by +/- 22.5° on vertical mounting surface; can be titled forward and backward by +/- 22.5° on vertical mounting surface; can be titled forward and backward by +/- 22.5° on vertical mounting surface; can be titled forward and backward by +/- 22.5° on vertical mounting surface; can be titled forward and backward by +/-		
• for single-phase AC motor at 230 V rated value • for 3-phase AC motor at 460/480 V rated value contact rating of auxillary contacts according to UL 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 • 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 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 + side-by-side mounting • with side-by-side mounting • with side-by-side mounting • of mm • odownwards - backwards - downwards - downwards - for grounded parts - forwards - backwards - backwards - to mm • of mm • of mm • of or grounded parts - forwards - backwards - downwards • for live parts - forwards - downwards • for live parts - forwards - backwards - ba		
• for 3-phase AC motor at 480/480 V rated value contact rating of auxiliary contacts according to UL **Short-circuit protection** **Gestion of the fuse link** • for short-circuit protection of the main circuit		2 hn
contact rating of auxiliary contacts according to UL 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 • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position **Fraction possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface see and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022 • side-by-side mounting • side-by-side mounting **With side-by-side mounting • with side-by-side mounting • with side-by-side mounting • forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — backwards — backwards — backwards — upwards — downwards — o mm • for grounded parts — forwards — at the side — downwards — o mm • for ilive parts — forwards • for live parts — forwards • for live parts — forwards — backwards — backwards — o mm • for live parts — forwards — backwards — backwards — backwards — backwards — o mm • for live parts — forwards — backwards — backwards — backwards — o mm • for live parts — forwards — backwards — backwards — backwards — backwards — backwards — backwards — o mm		
Short-circuit protection	·	·
design of the fuse link • for short-circuit protection of the main circuit — 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 • 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 fuse gG: 10 A **Totation 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°		A000 / Q000
• 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 • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position **H-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 **Note that is the state of the s		
with type of coordination 1 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		
 — with type of assignment 2 required		
for short-circuit protection of the auxiliary switch required	The state of the s	
Installation/ mounting/ dimensions mounting position		,
mounting position		fuse gG: 10 A
#/-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 • side-by-side mounting **Pes **Height** **Width** **depth** **required spacing** • with side-by-side mounting — forwards — backwards — upwards — downwards — downwards — at the side • for grounded parts — forwards — backwards — backwards — o mm • for grounded parts — forwards — backwards — backwards — backwards — 0 mm • at the side — downwards — upwards — at the side — downwards — o mm • for live parts • for live parts — forwards — backwards — backwards — 0 mm • for live parts — forwards — backwards — 0 mm • for live parts — forwards — backwards — backwards — 0 mm • for live parts — forwards — backwards — 0 mm • for live parts — forwards — backwards — 0 mm — upwards — backwards — 0 mm • for live parts — forwards — backwards — 0 mm — upwards — backwards — 0 mm	·	
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 57.5 mm width depth 73 mm required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — backwards — o mm • for grounded parts — forwards — backwards — upwards — backwards — 0 mm • for grounded parts — forwards — backwards — o mm • for live parts — at the side — downwards — o mm • for live parts — forwards — backwards — o mm • for live parts — forwards — backwards — o mm • for live parts — forwards — backwards — backwards — o mm • for live parts — forwards — backwards — o mm • for live parts — forwards — backwards — o mm • o mm • for live parts — forwards — backwards — o mm		
fastening method • side-by-side mounting height width 45 mm depth required spacing • with side-by-side mounting — forwards — backwards — downwards — at the side — forwards — backwards — backwards — omm • for grounded parts — forwards — backwards — backwards — omm • for grounded parts — forwards — backwards — omm • for grounded parts — forwards — backwards — omm • for lie parts — at the side — downwards — omm • omm • for live parts — forwards — downwards — omm • for live parts — forwards — lownwards — omm • for live parts — forwards — backwards — omm • for live parts — forwards — backwards — omm • for live parts — forwards — backwards — omm • omm • for live parts — forwards — backwards — omm — backwards — omm — omm • omm	mounting position	
side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — backwards — upwards — at the side — backwards — backwards — backwards — backwards — for grounded parts — forwards — backwards — o mm o for grounded parts — forwards — backwards — o mm o for grounded parts — forwards — backwards — upwards — o mm o	fastening method	
height 57.5 mm width 45 mm depth 73 mm required spacing To mm • with side-by-side mounting 0 mm — forwards 0 mm — backwards 0 mm — downwards 0 mm — at the side 0 mm • for grounded parts 0 mm — backwards 0 mm — upwards 0 mm • for live parts 0 mm — forwards 0 mm • backwards 0 mm — backwards 0 mm — backwards 0 mm — upwards 0 mm		
width 45 mm depth 73 mm required spacing 0 mm with side-by-side mounting 0 mm — forwards 0 mm — backwards 0 mm — downwards 0 mm — at the side 0 mm — backwards 0 mm — at the side 6 mm — downwards 0 mm • for live parts 0 mm — backwards 0 mm — backwards 0 mm — backwards 0 mm — backwards 0 mm — upwards 0 mm — upwards 0 mm — upwards 0 mm		
depth 73 mm required spacing	_	
required spacing • with side-by-side mounting — forwards — backwards — upwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — upwards — 0 mm • for grounded parts — forwards — backwards — upwards — at the side — downwards — o mm • for live parts — forwards — backwards — horwards — upwards — upwards — o mm • for live parts — forwards — backwards — backwards — upwards — o mm • for live parts — forwards — backwards — backwards — backwards — o mm		
 with side-by-side mounting forwards backwards upwards upwards downwards at the side omm for grounded parts for wards backwards upwards omm upwards at the side omm at the side omm at the side omm for live parts for wards omm omm<td>depth</td><td>73 mm</td>	depth	73 mm
— forwards 0 mm — backwards 0 mm — upwards 0 mm — downwards 0 mm — at the side 0 mm — forwards 0 mm — backwards 0 mm — upwards 0 mm — at the side 6 mm — downwards 0 mm • for live parts 0 mm — backwards 0 mm — backwards 0 mm — upwards 0 mm		
— backwards 0 mm — upwards 0 mm — downwards 0 mm — at the side 0 mm — forwards 0 mm — backwards 0 mm — upwards 0 mm — at the side 6 mm — downwards 0 mm • for live parts 0 mm — backwards 0 mm — upwards 0 mm		
 — upwards — downwards — at the side ● for grounded parts — forwards — backwards — upwards — at the side — downwards ● for live parts — forwards — forwards — backwards — mm — downwards ● for live parts — forwards — backwards — upwards 0 mm — upwards 0 mm 		0 mm
 — downwards — at the side ● for grounded parts — forwards — backwards — upwards — at the side — downwards ● for live parts — forwards — backwards — upwards ● for live parts — backwards — upwards 0 mm — backwards — upwards 0 mm 	— backwards	0 mm
 — at the side ● for grounded parts — forwards — backwards — upwards — at the side — downwards ● for live parts — forwards — backwards — backwards — upwards 0 mm 	— upwards	0 mm
 for grounded parts — forwards — backwards — upwards — at the side — downwards — for live parts — forwards — backwards — upwards — o mm — upwards — forwards — backwards — upwards — upwards — o mm — upwards — o mm — upwards — o mm — o mm — upwards — o mm — o mm — o mm — upwards — o mm — o mm — o mm — o mm — upwards — o mm — o mm	— downwards	0 mm
— forwards 0 mm — backwards 0 mm — upwards 0 mm — at the side 6 mm — downwards 0 mm • for live parts 0 mm — backwards 0 mm — upwards 0 mm	— at the side	0 mm
— backwards 0 mm — upwards 0 mm — at the side 6 mm — downwards 0 mm • for live parts 0 mm — backwards 0 mm — upwards 0 mm	 for grounded parts 	
— upwards 0 mm — at the side 6 mm — downwards 0 mm • for live parts 0 mm — forwards 0 mm — backwards 0 mm — upwards 0 mm	— forwards	0 mm
 — at the side — downwards ● for live parts — forwards — backwards — upwards 6 mm 0 mm 0 mm 0 mm 	— backwards	0 mm
 — downwards ● for live parts — forwards — backwards — upwards 0 mm 0 mm 0 mm 	— upwards	0 mm
 for live parts — forwards — backwards — upwards 0 mm 0 mm 	— at the side	6 mm
 forwards backwards upwards 0 mm 0 mm 	— downwards	0 mm
backwardsupwards0 mm0 mm	 for live parts 	
— upwards 0 mm	— forwards	0 mm
	— backwards	0 mm
doublearde	— upwards	0 mm
— downwards U mm	— downwards	0 mm

- at the side 6 mm **Connections/ Terminals** type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals of magnet coil Screw-type terminals type of connectable conductor cross-sections • for main contacts - solid 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), 2x 4 mm² 2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²), 2x 4 mm² - solid or stranded 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) - finely stranded with core end processing • at AWG cables for main contacts 2x (20 ... 16), 2x (18 ... 14), 2x 12 type of connectable conductor cross-sections • for auxiliary contacts — solid 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), 2x 4 mm² - solid or stranded 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), 2x 4 mm² 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) - finely stranded with core end processing • at AWG cables for auxiliary contacts 2x (20 ... 16), 2x (18 ... 14), 2x 12 AWG number as coded connectable conductor cross 20 ... 12 section for main contacts Safety related data product function • mirror contact according to IEC 60947-4-1 Yes; with 3RH29 • positively driven operation according to IEC 60947-No 5-1 T1 value for proof test interval or service life according to 20 y IEC 61508 protection class IP on the front according to IEC IP20 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front Certificates/ approvals **General Product Approval EMC** Confirmation **Functional** Safety/Safety of **Declaration of Conformity Test Certificates** Marine / Shipping Machinery

Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping













other Railway Dangerous Good



<u>Vibration and Shock</u> <u>Transport Information</u>

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=3RT2517-1BB40

Cax online generator

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

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, ...)

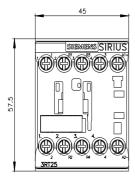
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2517-1BB40&lang=en

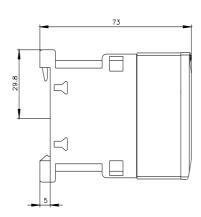
Characteristic: Tripping characteristics, I2t, Let-through current

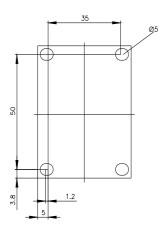
https://support.industry.siemens.com/cs/ww/en/ps/3RT2517-1BB40/char

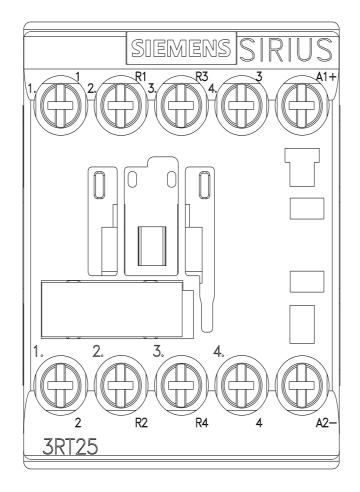
Further characteristics (e.g. electrical endurance, switching frequency)

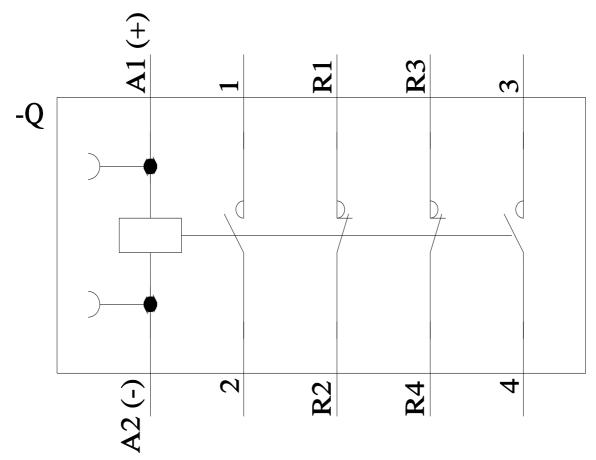
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2517-1BB40&objecttype=14&gridview=view1











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