SIEMENS

Data sheet 3RT2517-2BW40



Power contactor, AC-3 12 A, 5.5 kW / 400 V 2 NO + 2 NC 48 V DC 4-pole Size S00 Spring-type terminals

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 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 (switching 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

e at AC-1 up to 990 V — at ambient temperature 40 °C rated value — at ambient temperature 60 °C rated value — at AC-2 at AC-3	number of NC contacts for main contacts	2
at AC-1 up to 890 V at animbent temperature 40 °C rated value at AC-2 at AC-3 at 400 V aper NC contact rated value at 110 V rated value at 124 V rated value at 24 V rated value at 140 V per NC contact rated value at 140 V per NC contact rated value at 150 V per NC contact rated value at 160 V per NC contact rated value at 220 V per NC contact rated value at 230 V per NC contact rated		-
at ambient temperature 40 °C rated value at AC-2 at AC-3 at 400 V per NC contact rated value at 24 V rated value at 220 V rated value at 24 V rated value at 25 V rated value at 26 V rated value at 27 V rated value at 27 V rated value at 28 V rated value at 28 V rated value at 28 V per NC contact rated value at 24 V per NC contact rated value at 24 V per NC contact rated value	•	
- at ankient temperature 60 °C rated value	•	22 A
a th AC-2 at AC-3 at		
— per NC contact rated value	·	20 A
per NC contact rated value roperational current rated value operational current at 24V rated value at 24V per NC contact rated value at 22V per NC contact rated value at 24V per NC contact rated value at 25V per NC contact rated value		40.4
perational current • at 1 current path at DC-1 — at 24V rated value — at 110V rated value — at 40V rated value — at 44D V rated value — at 24V per NC contact rated value — at 24V per NC contact rated value — at 10V per NC contact rated value — at 24V per NC contact rated value — at 32V per NC contact rated value — at 110V per NC contact rated value — at 110V per NC contact rated value — at 40V per NC contact rated value — at 40V per NC contact rated value • at 40V per NC contact rated value • at 40V per	•	
• at 1 current path at DC-1		4 111117
	operational current	
- at 110 V rated value	at 1 current path at DC-1	
	— at 24 V rated value	20 A
■ with 2 current paths in series at DC-1 20 A — at 110 V rated value 12 A — at 110 V rated value 12 A — at 120 V rated value 0.8 A — at 220 V rated value 0.8 A — at 24 V per NC contact rated value 20 A — at 24 V per NC contact rated value 20 A — at 110 V per NC contact rated value 0.075 A — at 110 V per NC contact rated value 0.16 A — at 220 V per NC contact rated value 0.75 A — at 220 V per NC contact rated value 0.75 A — at 224 V per NC contact rated value 0.75 A — at 24 V per NC contact rated value 0.75 A — at 24 V per NC contact rated value 0.75 A — at 24 V per NC contact rated value 0.75 A — at 24 V per NC contact rated value 0.8 A — at 24 V per NC contact rated value 0.35 A — at 230 V per NC contact rated value 0.35 A — at 230 V per NC contact rated value 2.2 kW • at 230 V per NC contact rated value 4 kW • at 400 V per NC contact rated value 4 kW • at 400 V per NC contact rated value	— at 110 V rated value	2.1 A
• with 2 current paths in series at DC-1 — at 24 V rietd value	— at 220 V rated value	0.8 A
- at 24 V rated value	— at 440 V rated value	0.6 A
- at 110 V rated value	with 2 current paths in series at DC-1	
- at 220 V rated value - at 440 V rated value - at 440 V rated value - at 440 V rated value - at 24 V per NC contact rated value - at 24 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 24 V per NC contact rated value - at 24 V per NC contact rated value - at 24 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 400 V per NC con	— at 24 V rated value	20 A
at 1 current path at DC-3 at DC-5 at 24 V per NC contact rated value at 110 V per NC contact rated value at 110 V per NC contact rated value at 120 V per NC contact rated value at 120 V per NC contact rated value at 220 V per NC contact rated value at 24 V per NC contact rated value at 24 V per NC contact rated value at 24 V per NC contact rated value at 110 V per NC contact rated value at 110 V per NC contact rated value at 230 V per NC contact rated value at 240 V per NC contact rated value at 230 V per NC contact rated value at 230 V per NC contact rated value at 400 V per NC contact rated value blimited to 1 s switching at zero current maximum at limited to 10 s switching at zero current maximum at limited to 60 s switching at zero current maximum at limited to 60 s switching at zero current maximum blimited to 60 s switching at zero current maximum at limited to 60 s switching at zero current maximum blimited to 60 s switching at zero current maximum control supply voltage at 200 V per NC contact value of the control supply voltage at AC-1 rated value at 40 V per NC control supply voltage at AC-1 rated value at 40 V per NC control supply volta	— at 110 V rated value	12 A
at 1 current path at DC-3 at DC-5 at 24 V per NC contact rated value at 24 V per NC contact rated value at 110 V per NC contact rated value at 110 V per NC contact rated value at 220 V per NC contact rated value other at 24 V per NC contact rated value at 110 V per NC contact rated value at 230 V per NC contact rated value at 230 V per NC contact rated value at 400 V per NC contact rated value bimited to 5 s switching at zero current maximum imited to 6 s switching at zero current maximum imited to 60 s switching at zero	— at 220 V rated value	1.6 A
- at 24 V per NC contact rated value	— at 440 V rated value	0.8 A
at 24 V per NO contact rated value	 at 1 current path at DC-3 at DC-5 	
- at 110 V per NC contact rated value - at 120 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value - at 24 V per NC contact rated value - at 24 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 120 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NC contact rated value - at 400 V per NC contact rated value - initited to 1 s switching at zero current maximum - limited to 5 s switching at zero current maximum - limited to 50 s switching at zero current maximum - limited to 60 s switching at zero current maximum - limited to 60 s switching at zero current maximum - limited to 60 s switching at zero current maximum - limited to 60 s switching at zero current maximum - limited to 60 s switching at zero current maximum - limited to 60 s switching at zero current maximum - limited to 60 s switching at zero current maximum - limited to 60 s switching at zero current maximum - limited to 60 s switching at zero current maximum - limited to 60 s switching at zero current maximum - limited to 60 s switching at zero current maximum - limited to 60 s switching at zero current maximum - limited to 60 s switching at zero current maximum - limited to 60 switching at zero current maximum - limited to 60 switching at zero current maximum - limited to 60 switching at zero current maximum - limited to 60 switching at zero current maximum - limited to 60 switching at zero current maximum - limited to 60 switching at zero current maximum - limited to 60 switching at zero current maximum - limited to 60 switching at zero current maximum - limited to 60 switching at zero current maximum - limited to 60 switching at zero current maximum - limited to 60 switching at zero	 — at 24 V per NC contact rated value 	20 A
- at 110 V per NO contact rated value - at 220 V per NC contact rated value - at 220 V per NC contact rated value • with 2 current paths in series at DC-3 at DC-5 - at 24 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 400 V per NC con	 — at 24 V per NO contact rated value 	20 A
- at 220 V per NC contact rated value - at 220 V per NO contact rated value - with 2 current paths in series at DC-3 at DC-5 - at 24 V per NC contact rated value - at 24 V per NC contact rated value - at 24 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 290 V per NC contact rated value - at 290 V per NC contact rated value - at 290 V per NC contact rated value - at 290 V per NC contact rated value - at 290 V per NC contact rated value - at 290 V per NC contact rated value - at 290 V per NC contact rated value - at 400 V per NC control value V per NC contact rated value - at 400 V per NC control value V per NC contact rated value - at 400 V per NC contact rated value of the operating frequency - at 400 V per NC control value V per NC per V	 — at 110 V per NC contact rated value 	0.075 A
- at 220 V per NO contact rated value • with 2 current paths in series at DC-3 at DC-5 - at 24 V per NC contact rated value - at 24 V per NO contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value • at 230 V per NC contact rated value • at 230 V per NC contact rated value • at 400 V per NC contact rated value of the value o	 — at 110 V per NO contact rated value 	0.15 A
with 2 current paths in series at DC-3 at DC-5 — at 24 V per NC contact rated value — at 21 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value operating power at AC-2 at AC-3 • at 230 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 50 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero curre	 — at 220 V per NC contact rated value 	0.375 A
- at 24 V per NC contact rated value - at 24 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 230 V per NC contact rated value - at 230 V per NC contact rated value - at 400 V per NC contact rated va	 — at 220 V per NO contact rated value 	0.75 A
- at 24 V per NO contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value - at 110 V per NC contact rated value 0.35 A operating power at AC-2 at AC-3 • at 230 V per NC contact rated value • at 230 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NO contact rated value • bat 400 V per NO contact rated value • bat 400 V per NO contact rated value • bat 400 V per NO contact rated value • bat 400 V per NO contact rated value • bat 400 V per NO contact rated value • bat 400 V per NO contact rated value • bat 400 V per NO contact rated value • bat 400 V per NO contact rated value • bat 400 V per NO contact rated value • bat 400 V per NO contact rated value • bat 400 V per NO contact rated value • bat 400 V per NO contact rated value • bat 400 V per NO contact rated value • bat 400 V per NO contact rated value • bat 400 V per NO contact rated value • bat 400 V per NO contact rated value • bat 400 V per NO contact rated value • bat 400 V per NO contact rated value • bat 5.5 kW 125 A; Use minimum cross-section acc. to AC-1 rated value • bat 400 V per NO contact rated	 with 2 current paths in series at DC-3 at DC-5 	
- at 110 V per NC contact rated value - at 110 V per NO contact rated value operating power at AC-2 at AC-3 • at 230 V per NC contact rated value • at 230 V per NC contact rated value • at 230 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NO contact rated value • at 400 V per NO contact rated value • at 400 V per NO contact rated value short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 6 s switching at zero current maximum • limited to 60 s switching at 20	 — at 24 V per NC contact rated value 	20 A
operating power at AC-2 at AC-3 • at 230 V per NC contact rated value • at 230 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value * short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum **Take to a control to a control supply of traded value of the operational current per conductor **Take to a control supply voltage at DC • rated value **Take to a control supply voltage at DC • rated value **Take to a control supply voltage at DC • rated value **Take to a control supply voltage at DC • rated value **Take to a control supply voltage at DC • rated value **Take to a control supply voltage at DC • rated value **Take to a control supply voltage at DC • rated value **Take to a control supply voltage at DC • rated value **Take to a control supply voltage at DC • rated value **Take to a control supply voltage at DC • rated value **Take to a control supply voltage at DC • rated value **Take to a control supply voltage at DC • rated value **Take to a control supply	 — at 24 V per NO contact rated value 	20 A
e at 230 V per NC contact rated value e at 230 V per NC contact rated value e at 400 V per NC contact rated value e at 400 V per NC contact rated value e at 400 V per NC contact rated value e at 400 V per NC contact rated value short-time withstand current in cold operating state up to 40 °C e limited to 1 s switching at zero current maximum e limited to 5 s switching at zero current maximum e limited to 10 s switching at zero current maximum e limited to 30 s switching at zero current maximum e limited to 60 s switching at zero current maximum e limited to 60 s switching at zero current maximum e limited to 60 s switching at zero current maximum e limited to 60 s switching at zero current maximum e limited to 60 s switching at zero current maximum e limited to 60 s switching at zero current maximum e limited to 60 s switching at zero current maximum fower loss [W] at AC-3 at 400 V for rated value of the operational current per conductor no-load switching frequency e at AC at AC at AC 10 000 1/h 10 000 1/h control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC e rated value e full-scale value 0.8 1.1	 at 110 V per NC contact rated value 	0.175 A
at 230 V per NC contact rated value at 230 V per NC contact rated value at 400 V per NC contact rated value 4 kW 5.5 kW short-time withstand current in cold operating state up to 40 °C ilmited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to	 at 110 V per NO contact rated value 	0.35 A
at 230 V per NO contact rated value at 400 V per NC contact rated value at 400 V per NC contact rated value at 400 V per NO contact rated value at 400 V per NO contact rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum slimited to 60 s switching at zero current maximum power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor no-load switching frequency at AC at DC operating frequency at AC-1 maximum 1 000 1/h control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value 0.8 1.1	operating power at AC-2 at AC-3	
at 400 V per NC contact rated value at 400 V per NO contact rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum shower loss [W] at AC-3 at 400 V for rated value of the operational current per conductor no-load switching frequency at AC at AC at AC at AC at AC-1 maximum 10000 1/h control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC rated value 1000 1/h control supply voltage at DC initial value limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 40 current per conductor 1.2 W 1.2 W 1.2 W 1.3 W 1.4 W 1.5 A; Use minimum cross-section acc. to AC-1 rated value limited to 40 current per conductor 1.2 W 1.2 W 1.3 W 1.4 W 1.5 A; Use minimum cross-section acc. to AC-1 rated value limited to 40 current per conductor limited value limited to 40 current per conductor 1.2 W 1.2 W 1.3 W 1.4 W 1.5 A; Use minimum cross-section acc. to AC-1 rated value limited to 40 current per conductor limited value limited to 40 current per conductor 1.2 W 1.2 W 1.3 W 1.4 W 1.5 A; Use minimum cross-section acc. to AC-1 rated value limited to 40 current per conductor 1.2 W 1.2 W 1.2 W 1.3 W 1.4 W 1.5 A; Use minimum cross-section acc. to AC-1 rated value limited to 40 current per current maximum limited to 40 current	 at 230 V per NC contact rated value 	2.2 kW
short-time withstand current in cold operating state up to 40 °C imited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum liu e minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum liu e minimum cross-section acc. to AC-1 rated value liu e minimum cross-section acc. to AC-1 rated value liu e minimum cross-section acc. to AC-1 rated value liu e minimum cross-section acc. to AC-1 rated value liu e minimum cross-section acc. to AC-1 rated value liu e minimum cross-section acc. to AC-1 rated value liu e minimum cross-section acc. to AC-1 rated value liu e minimum cross-section acc. to AC-1 rated value liu e minimum cross-section acc. to AC-1 rated value liu e minimum cross-section acc. to AC-1 rated value liu e minimum cross-section acc. to AC-1 rated value liu e minimum cross-section acc. to AC-1 rated value liu e minimum cross-section acc. to AC-1 rat	 at 230 V per NO contact rated value 	3 kW
short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limi	 at 400 V per NC contact rated value 	4 kW
up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor no-load switching frequency • at AC • at DC operating frequency • at AC-1 maximum 1 0000 1/h control circuit/ Control type of voltage of the control supply voltage operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value 1.25 A; Use minimum cross-section acc. to AC-1 rated value 123 A; Use minimum cross-section acc. to AC-1 rated value 124 A; Use minimum cross-section acc. to AC-1 rated value 125 A; Use minimum cross-section acc. to AC-1 rated value 126 A; Use minimum cross-section acc. to AC-1 rated value 127 A; Use minimum cross-section acc. to AC-1 rated value 128 A; Use minimum cross-section acc. to AC-1 rated value 129 A; Use minimum cross-section acc. to AC-1 rated value 120 AC-1 rated value 120 AC-1 rated value 120 W 120	 at 400 V per NO contact rated value 	5.5 kW
 Ilmited to 1 s switching at zero current maximum Ilmited to 5 s switching at zero current maximum Ilmited to 10 s switching at zero current maximum Ilmited to 10 s switching at zero current maximum Ilmited to 30 s switching at zero current maximum Ilmited to 30 s switching at zero current maximum Ilmited to 60 s switching at zero current maximum Ilmited to 60 s switching at zero current maximum Ilmited to 60 s switching at zero current maximum Ilmited to 60 s switching at zero current maximum Ilmited to 60 s switching at zero current maximum Ilmited to 60 s switching at zero current maximum Ilmited to 60 s switching at zero current maximum Ilmited to 60 s switching at zero current maximum Ilmited to 60 s switching at zero current maximum Illie minimum cross-section acc. to AC-1 rated value Illie minimum cross-section acc. t		
 limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor no-load switching frequency at AC at DC 10 000 1/h operating frequency at AC-1 maximum 1 0000 1/h control circuit/ Control type of voltage of the control supply voltage rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value full-scale value 	•	125 A: Use minimum cross-section acc. to AC-1 rated value
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Ilimited to 60 s switching at zero current maximum power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor no-load switching frequency	_	
power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor no-load switching frequency	_	
operational current per conductor no-load switching frequency	<u> </u>	
 at AC 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 orated value orated value operating range factor control supply voltage rated value of magnet coil at DC initial value outrol supply voltage at DC orated value operating range factor control supply voltage rated value of magnet coil at DC initial value outrol supply voltage rated value 	•	
at DC operating frequency at AC-1 maximum 1 000 1/h Control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC	no-load switching frequency	
operating frequency	• at AC	10 000 1/h
at AC-1 maximum 1 000 1/h Control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value 1.1	• at DC	10 000 1/h
type of voltage of the control supply voltage control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value DC 48 V 0.8 1.1	operating frequency	
type of voltage of the control supply voltage control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value DC 48 V 0.8 1.1	• at AC-1 maximum	1 000 1/h
control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value 1.1	Control circuit/ Control	
operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value 48 V 0.8 1.1	type of voltage of the control supply voltage	DC
operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value 0.8 1.1	control supply voltage at DC	
value of magnet coil at DC	rated value	48 V
• full-scale value 1.1		
	initial value	0.8
closing power of magnet coil at DC 4 W		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
arcing time	10 15 ms
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
instantaneous contact	
number of NO contacts for auxiliary contacts	0
instantaneous contact operational current at AC-12 maximum	10 A
operational current at AC-12 maximum	10 A
at 230 V rated value	10 A
at 400 V rated value	3 A
operational current at DC-12	
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 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	
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 with type of coordination 1 required.	aC: 25 A (600) / 400 kA)
— with type of coordination 1 required	gG: 35 A (690 V, 100 kA)
 — with type of assignment 2 required for short-circuit protection of the auxiliary switch 	gG: 20A (690V, 100kA) fuse gG: 10 A
required	1435 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
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail
-	according to DIN EN 50022
side-by-side mounting	Yes
height	70 mm
width	45 mm
depth	73 mm
required spacing	
with side-by-side mounting	0 mm
— forwards	0 mm
— backwards	0 mm
— upwards — downwards	0 mm
— downwards — at the side	0 mm 0 mm
for grounded parts	Villin
— forwards	0 mm
— backwards	0 mm

— upwards	0 mm	
— at the side	6 mm	
— downwards	0 mm	
• for live parts		
— forwards	0 mm	
— backwards	0 mm	
— upwards	0 mm	
— downwards	0 mm	
— at the side	6 mm	
Connections/ Terminals		
type of electrical connection		
for main current circuit	spring-loaded terminals	
 for auxiliary and control circuit 	spring-loaded terminals	
 at contactor for auxiliary contacts 	Spring-type terminals	
of magnet coil	Spring-type terminals	
type of connectable conductor cross-sections		
for main contacts		
— solid	2x (0.5 4 mm²)	
— solid or stranded	2x (0,5 4 mm²)	
 finely stranded with core end processing 	2x (0.5 2.5 mm²)	
 finely stranded without core end processing 	2x (0.5 2.5 mm²)	
at AWG cables for main contacts	2x (20 12)	
type of connectable conductor cross-sections		
 for auxiliary contacts 		
— solid	2x (0.5 4 mm²)	
— solid or stranded	2x (0,5 4 mm²)	
 finely stranded with core end processing 	2x (0.5 2.5 mm²)	
 finely stranded without core end processing 	2x (0.5 2.5 mm²)	
at AWG cables for auxiliary contacts	2x (20 12)	
AWG number as coded connectable conductor cross section for main contacts	20 12	
Safety related data		
product function		
 mirror contact according to IEC 60947-4-1 	Yes; with 3RH29	
 positively driven operation according to IEC 60947- 5-1 	No	
T1 value for proof test interval or service life according to IEC 61508	20 y	
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	
Certificates/ approvals		
General Product Approval	EMC	





Confirmation







Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

Marine / Shipping

Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping













other

Dangerous Good

Confirmation



Transport Informa-<u>tion</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=3RT2517-2BW40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2517-2BW40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2517-2BW40

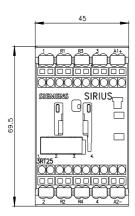
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

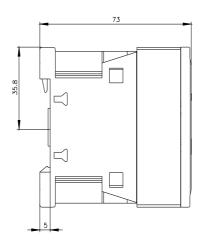
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=

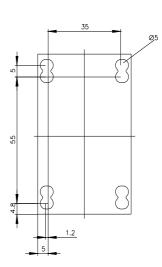
Characteristic: Tripping characteristics, I2t, Let-through current

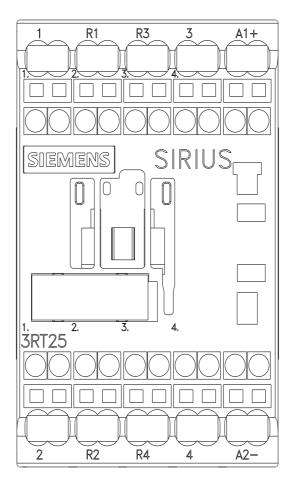
https://support.industry.siemens.com/cs/ww/en/ps/3RT2517-2BW40/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2517-2BW40&objecttype=14&gridview=view1









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