## **SIEMENS**

Data sheet 3RT2517-2BW40



power contactor, AC-3, 12 A, 5.5 kW / 400 V, 4-pole, 48 V DC, main contacts: 2 NO + 2 NC, spring-loaded terminal, size: S00  $\,$ 

product type designation 98725  size of contactor \$00  product extension		
product type designation	product brand name	SIRIUS
Size of contactor product extension • function module for communication • function module for rated value of the current • function specified for several functions and the current • function specified for functions and functions are typical • function of power loss depending on pole • function of power loss depending on pole • of main circuit with degree of pollution 3 rated value • for auxiliary circuit with degree of pollution 3 rated value • for function circuit rated value • for function value for protective separation between coil and main contacts according to EN 60947-1  **shock resistance at rectangular impulse • at DC  **at DC  *	product designation	contactor
size of contactor  product extension  • function module for communication • function module for communication • function module for communication • auxiliary switch  power loss [W] for rated value of the curent • at AC in hot operating state per pole • without load current share typical • without load current share typical  type of calculation of power loss depending on pole • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of main circuit rated value • of auxiliary circuit rated value • of auxiliary circuit rated value • of auxiliary circuit rated value • of ond contacts according to EN 60947-1  shock resistance at rectangular impulse • at DC  shock resistance with sine pulse • at DC  shock resistance with sine pulse • at DC  of ontactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • o	product type designation	3RT25
product extension  • function module for communication • auxiliary switch  power loss [W] for rated value of the current • at AC in hot operating state per pole • without load current share typical • without load current share typical • without load current share typical • of main circuit with degree of pollution 3 rated value • of main circuit with degree of pollution 3 rated value • of main circuit rated value • of outsiliary circuit with degree of pollution 3 rated value • of outsiliary circuit with edgree of pollution 3 rated value • of outsiliary circuit value • of main circuit rated value • of outsiliary outsil	General technical data	
• function module for communication • auxiliary switch  • auxiliary switch  • al AC in hot operating state per pole • without load current share typical • without load current share typical • of main circuit with degree of pollution 3 rated value • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit rated value • at DC • 7,3g / 5 ms, 4.7g / 10 ms  shock resistance at rectangular impulse • at DC • 11,4g / 5 ms, 7,3g / 10 ms  shock resistance with sine pulse • at DC • 11,4g / 5 ms, 7,3g / 10 ms  shock resistance with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block t	size of contactor	S00
• auxiliary switch  • auxiliary switch  • at AC in hot operating state per pole • without load current share typical  • without load current share typical  • of main circuit with degree of pollution 3 rated value • of main circuit sted value • of main circuit rated value • of main circuit rated value • of auxiliary circuit with degree of pollution 3 rated value • of main circuit rated value • of auxiliary circuit with degree of protective separation between coil and main contacts according to EN 80947-1  **Shock resistance at rectangular impulse • at DC  • 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  **Benchanical service life (operating cycles) • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added switch special • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added sustliary switch block typical • of the contactor with added switch special • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added electronically optimized	product extension	
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• at AC in hot operating state per pole • without load current share typical  type of calculation of power loss depending on pole insulation voltage • of main circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of anin circuit rated value • of auxillary circuit rated value • of ontactor circuit rated value • of ontactor with added electronically optimized auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with	auxiliary switch	Yes
without load current share typical 4 W  type of calculation of power loss depending on pole insulation voltage     of main circuit with degree of pollution 3 rated value 690 V     surge voltage resistance     of main circuit rated value 6kV     of auxiliary circuit rated value 6kV     of auxiliary circuit rated value 6kV     maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 400 V  shock resistance at rectangular impulse 7 3/3 / 5 ms, 4.7g / 10 ms  shock resistance with sine pulse 11,4g / 5 ms, 7,3g / 10 ms  shock resistance with sine pulse 11,4g / 5 ms, 7,3g / 10 ms  shock resistance with added electronically optimized auxiliary switch block typical 0 fit econtactor with added electronically optimized auxiliary switch block typical 0 fit econtactor with added auxiliary switch block typical 0 fit econtactor with added auxiliary switch block typical 0 fit econtactor with added auxiliary switch block typical 0 fit econtactor with added auxiliary switch block typical 0 fit econtactor with added auxiliary switch block typical 0 fit econtactor with added auxiliary switch block typical 0 fit econtactor with added auxiliary switch block typical 0 fit econtactor with added auxiliary switch block typical 0 fit econtactor with added auxiliary switch block typical 0 fit econtactor with added auxiliary switch block typical 0 fit econtactor with added auxiliary switch block typical 0 fit econtactor with added auxiliary switch block typical 0 fit econtactor with added auxiliary switch block typical 0 fit econtactor with added auxiliary switch block typical 0 fit econtactor with added auxiliary switch block typical 0 fit econtactor with added auxiliary switch block typical 0 fit econtactor with added auxiliary switch block typical 0 fit econtactor with added auxiliary switch block typical 0 fit econtactor with added electronically optimized 0 fit econtactor with added auxiliary switch block typical 0 fit econtactor with added electronically optimized 0 fit econtac	power loss [W] for rated value of the current	
type of calculation of power loss depending on pole insulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit rated value of at DC 7,3g / 5 ms, 4.7g / 10 ms  shock resistance with sine pulse of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added electronically optimized auxili	<ul> <li>at AC in hot operating state per pole</li> </ul>	0.5 W
insulation voltage  • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of main circuit rated value • of auxiliary circuit rated value • of auxiliary circuit rated value • of auxiliary circuit rated value • of voluments is voltage for protective separation between coil and main contacts according to EN 60947-1  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 • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of during to tactor with added auxiliary switch block typical  reference code according to IEC 81346-2  Q  Substance Prohibitance (Date)  10/01/2009  Weight  0 200 m  ambient temperature • during operation • during operation • during storage • during storage • during storage  relative humidity at 55 °C according to IEC 60068-2-30  maximum	<ul> <li>without load current share typical</li> </ul>	4 W
of main circuit with degree of pollution 3 rated value     of auxiliary circuit with degree of pollution 3 rated value     of auxiliary circuit rated value     of main circuit rated value     of auxiliary circuit rated value     of kV      ox to V      ox to V      ox to D      ox to C	type of calculation of power loss depending on pole	quadratic
• of auxiliary circuit with degree of pollution 3 rated value  • of main circuit rated value • of auxiliary circuit rated value • of of auxiliary circuit rated value • ot voltage for protective separation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse • at DC • at DC	insulation voltage	
surge voltage resistance  • of main circuit rated value  • of auxiliary circuit rated value  • of kV  ### 400 V  ### 400 V  ### 500 W  ###	<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
of main circuit rated value     of auxiliary circuit rated value     of auxiliary circuit rated value     of auxiliary circuit rated value     adward parmissible voltage for protective separation between coil and main contacts according to EN 60947-1      shock resistance at rectangular impulse     oat DC     7.3g / 5 ms, 4.7g / 10 ms      shock resistance with sine pulse     oat DC     11.4g / 5 ms, 7.3g / 10 ms      mechanical service life (operating cycles)     of contactor typical     of the contactor with added electronically optimized auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     volume to contactor with added auxiliary switch block typical     volume to contactor with added auxiliary switch block typical     volume to contactor with added auxiliary switch block typical     volume to contactor with added auxiliary switch block typical     volume to contactor with added auxiliary switch block typical     volume to contactor with added auxiliary switch block typical     volume to contactor with added auxiliary switch block typical     volume to contactor with added auxiliary switch block typical     volume to contactor with added auxiliary switch block typical     volume to contactor with added auxiliary switch block typical     volume to contactor with added auxiliary sw	• of auxiliary circuit with degree of pollution 3 rated value	690 V
• of auxiliary circuit rated value  maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse • at DC  shock resistance with sine pulse • at DC  11,4g / 5 ms, 7,3g / 10 ms  mechanical service life (operating cycles) • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical  velope to the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor w	surge voltage resistance	
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse	<ul> <li>of main circuit rated value</li> </ul>	6 kV
coil and main contacts according to EN 60947-1       shock resistance at rectangular impulse <ul> <li>at DC</li> <li>7.3g / 5 ms, 4.7g / 10 ms</li> </ul> shock resistance with sine pulse <ul> <li>at DC</li> <li>11,4g / 5 ms, 7,3g / 10 ms</li> </ul> mechanical service life (operating cycles) <ul> <li>of contactor typical</li> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> </ul> 10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Weight       0.308 kg         Installation altitude at height above sea level maximum       2 000 m         ambient temperature <ul> <li>during operation</li> <li>-25 +60 °C</li> <li>during storage</li> <li>-55 +80 °C</li> </ul> relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30 maximum       95 %	of auxiliary circuit rated value	6 kV
• at DC  shock resistance with sine pulse • at DC  11,4g / 5 ms, 7,3g / 10 ms  mechanical service life (operating cycles) • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch		400 V
shock resistance with sine pulse	shock resistance at rectangular impulse	
e at DC  mechanical service life (operating cycles)  of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical 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  Weight 0.308 kg  Ambient conditions  installation altitude at height above sea level maximum 2 000 m  ambient temperature of during operation of during storage -55 +60 °C relative humidity minimum 10 %  relative humidity at 55 °C according to IEC 60068-2-30 maximum	• at DC	7.3g / 5 ms, 4.7g / 10 ms
mechanical service life (operating cycles)  • of contactor typical  • of the contactor with added electronically optimized auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2  Q  Substance Prohibitance (Date)  10/01/2009  Weight  0.308 kg  Ambient conditions  installation altitude at height above sea level maximum  2 000 m  ambient temperature  • during operation  • during storage  -25 +60 °C  • during storage  relative humidity minimum  10 %  relative humidity at 55 °C according to IEC 60068-2-30 maximum	shock resistance with sine pulse	
<ul> <li>of contactor typical</li> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>10 000 000</li> <li>reference code according to IEC 81346-2</li> <li>Q</li> <li>Substance Prohibitance (Date)</li> <li>10/01/2009</li> <li>Weight</li> <li>0.308 kg</li> <li>Ambient conditions</li> <li>installation altitude at height above sea level maximum</li> <li>a 000 m</li> <li>ambient temperature</li> <li>during operation</li> <li>-25 +60 °C</li> <li>during storage</li> <li>-55 +80 °C</li> <li>relative humidity minimum</li> <li>10 %</li> <li>relative humidity at 55 °C according to IEC 60068-2-30 maximum</li> </ul>	• at DC	11,4g / 5 ms, 7,3g / 10 ms
of the contactor with added electronically optimized auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     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  Weight     0.308 kg  Ambient conditions  installation altitude at height above sea level maximum     2 000 m  ambient temperature     oduring operation     oduring storage     -25 +60 °C     oduring storage     relative humidity minimum     10 %  relative humidity at 55 °C according to IEC 60068-2-30 maximum      solutions    Solution of the contactor with added auxiliary switch block typical   10 000 000   0	mechanical service life (operating cycles)	
auxiliary switch block typical  of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2  Q Substance Prohibitance (Date)  Weight  0.308 kg  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  of during operation of during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  10 000 000  10 000  10 000  10 000  0 000  0 000  10 000  10 000  10 000  0 000  1	of contactor typical	30 000 000
reference code according to IEC 81346-2  Substance Prohibitance (Date)  Weight  0.308 kg  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  10 %		5 000 000
Substance Prohibitance (Date)  Weight  0.308 kg  Installation altitude at height above sea level maximum  ambient temperature  during operation during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  10/01/2009  0.308 kg  2 000 m  1 0 °C  -25 +60 °C  -55 +80 °C  95 %	<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
Weight 0.308 kg  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 %	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  2 000 m  -25 +60 °C  -25 +80 °C  10 %  95 %	Substance Prohibitance (Date)	10/01/2009
installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage  -25 +60 °C  -55 +80 °C  relative humidity minimum  10 %  relative humidity at 55 °C according to IEC 60068-2-30 maximum  2 000 m  -25 +60 °C  -55 +80 °C  95 %	Weight	0.308 kg
ambient temperature  • during operation • during storage  • during storage  -25 +60 °C  -55 +80 °C  relative humidity minimum  10 %  relative humidity at 55 °C according to IEC 60068-2-30 maximum  95 %	Ambient conditions	
<ul> <li>during operation</li> <li>during storage</li> <li>-25 +60 °C</li> <li>telative humidity minimum</li> <li>10 %</li> <li>relative humidity at 55 °C according to IEC 60068-2-30 maximum</li> </ul>	installation altitude at height above sea level maximum	2 000 m
● during storage -55 +80 °C  relative humidity minimum 10 %  relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 %	ambient temperature	
relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 %	during operation	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum	during storage	-55 +80 °C
maximum	relative humidity minimum	10 %
Invironmental footprint		95 %
	Environmental footprint	

Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] total	153 kg
Global Warming Potential [CO2 eq] during manufacturing	1.42 kg
Global Warming Potential [CO2 eq] during operation	152 kg
Global Warming Potential [CO2 eq] after end of life	-0.305 kg
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	
<ul> <li>— at ambient temperature 40 °C rated value</li> </ul>	22 A
<ul> <li>— at ambient temperature 60 °C rated value</li> </ul>	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 rated value	4 mm <sup>2</sup>
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
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— 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	
<ul> <li>— at 24 V per NC contact rated value</li> </ul>	20 A
<ul> <li>— at 24 V per NO contact rated value</li> </ul>	20 A
<ul> <li>— at 110 V per NC contact rated value</li> </ul>	0.075 A
<ul> <li>— at 110 V per NO contact rated value</li> </ul>	0.15 A
<ul> <li>— at 220 V per NC contact rated value</li> </ul>	0.375 A
<ul> <li>— at 220 V per NO contact rated value</li> </ul>	0.75 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
<ul> <li>— at 24 V per NC contact rated value</li> </ul>	20 A
<ul> <li>— at 24 V per NO contact rated value</li> </ul>	20 A
<ul> <li>at 110 V per NC contact rated value</li> </ul>	0.175 A
— at 110 V per NO contact rated value	0.35 A
operating power at AC-2 at AC-3	
<ul> <li>at 230 V per NC contact rated value</li> </ul>	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	0.5 W
power loss [W] at AC-3e at 400 V for rated value of the operational current per conductor	0.5 W
no-load switching frequency	
• at AC	10 000 1/h
• at DC	10 000 1/h
operating frequency	
<ul> <li>at AC-1 maximum</li> </ul>	1 000 1/h

Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC rated value	48 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
arcing time	10 15 ms
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	0
number of NO contacts for auxiliary contacts instantaneous contact	0
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	10 A
at 400 V rated value	3 A
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)
JL/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.	aG: 35 A (600 V 100 kA)
— with type of assignment 2 required	gG: 35 A (690 V, 100 kA)
- with type of assignment 2 required  for short-circuit protection of the auxiliary switch required.	gG: 20A (690V, 100kA)
for short-circuit protection of the auxiliary switch required  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
fastening method side-by-side mounting	Yes
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
height	70 mm
width	45 mm
depth	73 mm
required spacing	
<ul><li>with side-by-side mounting</li><li>— forwards</li></ul>	0 mm
— lorwards — backwards	0 mm
— upwards	0 mm
ирттини и	V

at contactor for auxiliary contacts	Spring-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals
<ul> <li>at contactor for auxiliary contacts</li> </ul>	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)
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
— solid	2x (0.5 4 mm²)
— solid or stranded	2x (0,5 4 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm²)
— finely stranded without core end processing	2x (0.5 2.5 mm²)
for 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	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes; with 3RH29
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No
Electrical Safety	
	IP20
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529 Approvals Certificates	finger-safe, for vertical contact from the front





Confirmation







EMV Test Certificates Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate







Marine / Shipping other











Railway **Dangerous goods Environment** 

Special Test Certific-

**Transport Information** 



**Environmental Confirmations** 

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=3RT2517-2BW40

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

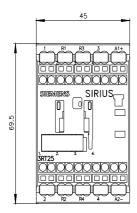
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

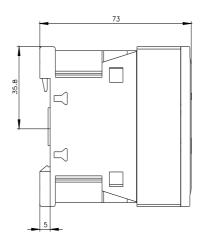
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2517-2BW40&lang=en

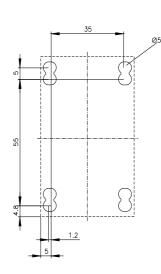
Characteristic: Tripping characteristics, I2t, Let-through current

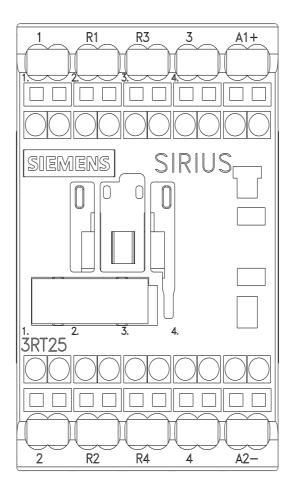
https://support.industry.siemens.com/cs/ww/en/ps/3RT2517-2

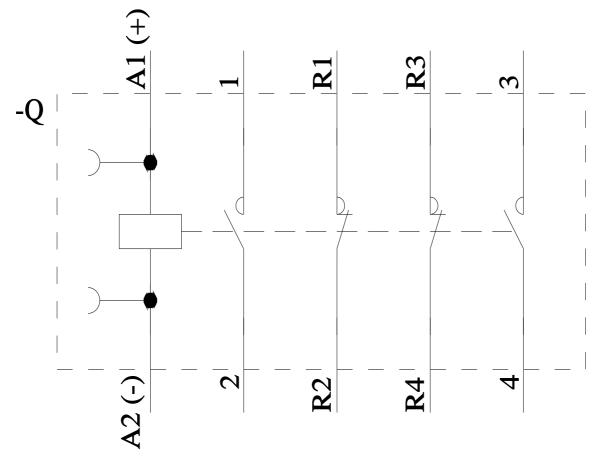
Further characteristics (e.g. electrical endurance, switching frequency)
<a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2517-2BW40&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2517-2BW40&objecttype=14&gridview=view1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











last modified: 3/19/2024 🖸

## **Mouser Electronics**

**Authorized Distributor** 

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Siemens:

3RT25172BW40