## **SIEMENS**

Data sheet 3RT2517-1AP00



power contactor, AC-3, 12 A, 5.5 kW / 400 V, 4-pole, 230 V AC, 50/60 Hz, main contacts: 2 NO + 2 NC, screw terminal, size: S00

product brand name SIRIUS product designation contactor product type designation 3RT25  Ceneral technical data  size of contactor   S00		CIPILIO
product type designation General technical data size of contactor product extension • function module for communication • function module for communication • function module for communication • auxiliary switch • of auxiliary switch • of main circuit with degree of pollution 3 rated value • of main circuit rated value • of main circuit rated value • of main circuit rated value • of auxiliary circuit rated value • of main circuit rated value • of main circuit rated value • of main circuit rated value • of auxiliary circuit rated value • of the contacts coording to EN 60947-1  shock resistance at rectangular impulse • at AC  7,3g / 5 ms, 4,7g / 10 ms  shock resistance with sine pulse • at AC  11.4g / 5 ms, 7,3g / 10 ms  shock resistance with sine pulse • at AC  11.4g / 5 ms, 7,3g / 10 ms  shock resistance with daded electronically optimized auxiliary switch block typical  of the contactor vipical  of the contactor vipical  of the contactor vipical daded 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 typic	-	
Size of contactor Six of contactor Product extension Insulation would for communication Insulation would for contactor with degree of pollution 3 rated value Insulation would for a discussion with degree of pollution 3 rated value Insulation would for a discussion would for a final circuit with degree of pollution 3 rated value Insulation would for a discussion would for a final circuit rated value Insulation would for a final circuit Insulation would circuit Insulation would circuit Insulation would circuit Insulation would insulate a circuit Insulation would circuit Insulation would be a final circuit Insulation would circuit Insulation would circuit Insulation would circuit Insulation would would be contacted to the contactor of the contacts for main contacts Insulation would be contacted to the circuit I		
size of contactor product extension  • function module for communication • auxiliary switch  • auxiliary switch  • 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 rated value • of main circuit rated value • of main circuit rated value • of auxiliary circuit rated value • of the contactor corrective separation between coll and main contacts according to EN 60947-1  shock resistance at rectangular impulse • at AC  11.4g / 5 ms, 4.7g / 10 ms  shock resistance with sine pulse • at AC  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 • 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 wit		3RT25
product extension  • function module for communication  • auxiliary switch  • auxiliary switch  • 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 main circuit rated value  • of auxiliary circuit with adeed auxiliary minus  • of auxiliary switch sine pulse  • at AC  7.3g / 5 ms, 4.7g / 10 ms  shock resistance with sine pulse  • at AC  11.4g / 5 ms, 7.3g / 10 ms  mechanical service life (operating cycles)  • 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	General technical data	
• function module for communication     • auxillary switch     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 main circuit rated value     • of auxilliary circuit with degree of pollution 3 rated value     • of auxilliary circuit rated value     • of auxilliary switch blooratage for protective separation between coll and main contacts according to ER 080947-1  shock resistance at rectangular impulse     • at AC     7,3g / 5 ms, 4,7g / 10 ms  shock resistance with sine pulse     • at AC     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 electronically optimized auxiliary switch block typical     • of the contactor with added auxiliary switch block typical     reference code according to IEC 81346-2     Q  Substance Prohibitance (Date)  Ambient conditions  Installation altitude at height above sea level maximum     2 000 m  ambient temperature     • during operation     • during operation     • during operation     • during operation     • during storage     relative humidity at 55 °C according to IEC 60068-2-30     maximum  Main circuit  number of poles for main current circuit     number of NC contacts for main contacts     2     operational current	size of contactor	S00
auxiliary switch      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	product extension	
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 main circuit rated value  • of auxiliary circuit rated value  • of the contacts according to EN 60947-1  shock resistance at rectangular impulse  • at AC  • at AC  • at AC  • of the contactor with sine pulse  • 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 block typical  • of the contactor typical  • of the contactor with added auxiliary switch block typical  • of the contactor typical  • of the cont	<ul> <li>function module for communication</li> </ul>	No
of main circuit with degree of pollution 3 rated value     of auxiliary circuit with degree of pollution 3 rated value     of main circuit rated value     of main circuit rated value     of main circuit rated value     of auxiliary circuit rated value     of value or of auxiliary or of value     of value or of val	auxiliary switch	Yes
of auxiliary circuit with degree of pollution 3 rated value     surge voltage resistance     of main circuit rated value     of auxiliary circuit rated value     of auxiliary circuit rated value     of auxiliary circuit rated value     of kV  maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse     ot AC     shock resistance with sine pulse     ot AC     shock resistance with sine pulse     ot of contactor 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 a	insulation voltage	
surge voltage resistance  • of main circuit rated value  • of main circuit rated value  • of auxiliary circuit rated value  • of auxiliary circuit rated value  • of auxiliary circuit rated value  6 kV  maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse  • at AC  7,3g / 5 ms, 4,7g / 10 ms  shock resistance with sine pulse  • at AC  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  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  • during storage  relative humidity minimum  10 %  relative humidity at 55 °C according to IEC 60068-2-30  maximum  Main circuit  number of NO contacts for main contacts  2 number of NC contacts for main contacts  2 operational current	<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     maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1  shock resistance at rectangular impulse     at AC     7,3g / 5 ms, 4,7g / 10 ms  shock resistance with sine pulse     at AC     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 a	of auxiliary circuit with degree of pollution 3 rated value	690 V
of auxiliary circuit rated value     maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1  shock resistance at rectangular impulse     • at AC     shock resistance with sine pulse     • at AC     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     verification altitude at height above sea level maximum     ambient conditions  installation altitude at height above sea level maximum     • during operation     • during storage     relative humidity minimum     relative humidity minimum     relative humidity at 55 °C according to IEC 60068-2-30     maximum  Main circuit  number of NO contacts for main current circuit     number of NO contacts for main contacts     2     number of NC contacts for main contacts     2     operational current	surge voltage resistance	
maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1  shock resistance at rectangular impulse	of main circuit rated value	6 kV
coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse  • at AC  at AC  t1,4g / 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  • of the contactor with added auxiliary switch block typical  10 000 000   reference code according to IEC 81346-2  Q  Substance Prohibitance (Date)  10 000 000   reference code according to IEC 81346-2  Q  Substance Prohibitance (Date)  2000 m  ambient temperature  • during operation  • 25 +60 °C  • during storage  • 55 +80 °C  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30  maximum  Main circuit  number of poles for main current circuit  number of NC contacts for main contacts  2  number of NC contacts for main contacts  2  operational current	of auxiliary circuit rated value	6 kV
• at AC  shock resistance with sine pulse • at AC  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  reference code according to IEC 81346-2  Q  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature • during operation • during storage  -25 +60 °C  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  number of poles for main current circuit  number of NO contacts for main contacts 2 number of NC contacts for main contacts 2 operational current		400 V
shock resistance with sine pulse  at AC  at AC  it 1,4g / 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 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 typical  of the contacto	shock resistance at rectangular impulse	
at AC  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  reference code according to IEC 81346-2  Q  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  oduring operation  oduring storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30  maximum  Main circuit  number of poles for main current circuit  number of NO contacts for main contacts  poperational current  11,4g / 5 ms, 7,3g / 10 ms  30 000 000  30 000 000  40 000  10 000 000  10 000 000  10 000 00	• at AC	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 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 of the contac	shock resistance with sine pulse	
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)  Ambient conditions  installation altitude at height above sea level maximum     ambient temperature     ouring operation     ouring operation     ouring storage     ouring storage     relative humidity minimum     relative humidity minimum     relative humidity at 55 °C according to IEC 60068-2-30     maximum  Main circuit  number of poles for main current circuit     number of NO contacts for main contacts     2  operational current	• at AC	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     reference code according to IEC 81346-2     Q     Substance Prohibitance (Date)     Ambient conditions     installation altitude at height above sea level maximum     ambient temperature     oduring operation     oduring storage     oduring storage     relative humidity minimum     10 %     relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  number of poles for main current circuit     number of NO contacts for main contacts     2     operational current	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)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  oduring operation  during storage  relative humidity minimum  10 %  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  number of Poles for main current circuit  number of NO contacts for main contacts  2 operational current	of contactor typical	30 000 000
reference code according to IEC 81346-2  Substance Prohibitance (Date)  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  Main circuit  number of poles for main current circuit  number of NO contacts for main contacts  2 operational current		5 000 000
Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage  relative humidity minimum  10 %  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  number of poles for main current circuit  number of NC contacts for main contacts  poperational current  2 000 m  -25 +60 °C  -55 +80 °C  95 %  95 %  4 10 %  95 %  10 %  1	<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage  relative humidity minimum  10 %  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  number of poles for main current circuit  number of NO contacts for main contacts  number of NC contacts for main contacts  operational current	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  Main circuit  number of poles for main current circuit  number of NO contacts for main contacts  number of NC contacts for main contacts  poperational current  2 000 m  -25 +60 °C  -55 +80 °C  10 %  95 %  95 %	Substance Prohibitance (Date)	10/01/2009
ambient temperature  • during operation • during storage  -55 +60 °C  relative humidity minimum  10 %  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  number of poles for main current circuit  number of NO contacts for main contacts  number of NC contacts for main contacts  operational current	Ambient conditions	
<ul> <li>during operation</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> <li>Main circuit</li> <li>number of poles for main current circuit</li> <li>number of NO contacts for main contacts</li> <li>number of NC contacts for main contacts</li> <li>operational current</li> </ul>	installation altitude at height above sea level maximum	2 000 m
during storage	ambient temperature	
relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  number of poles for main current circuit  number of NO contacts for main contacts 2 number of NC contacts for main contacts 2 operational current	<ul> <li>during operation</li> </ul>	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  number of poles for main current circuit  number of NO contacts for main contacts 2 number of NC contacts for main contacts 2 operational current	during storage	-55 +80 °C
maximum  Main circuit  number of poles for main current circuit  number of NO contacts for main contacts  number of NC contacts for main contacts  operational current  2	relative humidity minimum	10 %
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		95 %
number of NO contacts for main contacts  2 number of NC contacts for main contacts 2 operational current	Main circuit	
number of NC contacts for main contacts 2 operational current	number of poles for main current circuit	4
operational current	number of NO contacts for main contacts	2
	number of NC contacts for main contacts	2
• at AC-1 up to 690 V	operational current	
	• at AC-1 up to 690 V	

	20.1
— at ambient temperature 40 °C rated value	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 mm²
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
— at 24 V per NO contact rated value	20 A
<ul> <li>— at 110 V per NC contact rated value</li> </ul>	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
<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	
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  short-time withstand current in cold operating state up to	5.5 kW
40 °C	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	125 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	123 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	96 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	74 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 60 s switching at zero current maximum	61 A; Use minimum cross-section acc. to AC-1 rated value
power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor	1.2 W
no-load switching frequency	
• at AC	10 000 1/h
• at DC	10 000 1/h
operating frequency	
at AC-1 maximum	1 000 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	220.1/
at 50 Hz rated value	230 V
at 60 Hz rated value  operating range factor control supply voltage rated value of	230 V
magnet coil at AC	0.0 4.4
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	37 VA
• at 50 Hz	27 VA
• at 60 Hz	24.3 VA
inductive power factor with closing power of the coil	0.8

• at 50 Hz	0.8
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	4.2 VA
• at 50 Hz	4.2 VA
• at 60 Hz	3.3 VA
inductive power factor with the holding power of the coil	0.25
• at 50 Hz	0.25
• at 60 Hz	0.25
closing delay	
• at AC	9 35 ms
opening delay	
• at AC	4 15 ms
arcing time	10 15 ms
residual current of the electronics for control with signal <0>	
at AC at 230 V maximum permissible	0.004 A
Auxiliary circuit	0.004 A
number of NC contacts for auxiliary contacts instantaneous	0
contact	
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)
UL/CSA ratings	
yielded mechanical performance [hp]	2 hn
for single-phase AC motor at 230 V rated value     for 3 phase AC motor at 460/480 V rated value	2 hp
for 3-phase AC motor at 460/480 V rated value     contact rating of auxiliary contacts according to UL	5 hp A600 / Q600
Short-circuit protection	A000 / Q000
design of the fuse link	
for short-circuit protection of the main circuit	
with type of coordination 1 required	gG: 35 A (690 V, 100 kA)
with type of assignment 2 required	gG: 20A (690V, 100kA)
for short-circuit protection of the auxiliary switch required	fuse gG: 10 A
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and
	backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
side-by-side mounting	Yes
height	57.5 mm
width	45 mm
depth	73 mm
required spacing	
<ul><li>with side-by-side mounting</li></ul>	
— forwards	0 mm

	FMC
Certificates/ approvals	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
protection class IP on the front according to IEC 60529	IP20
T1 value for proof test interval or service life according to IEC 61508	20 a
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes; with 3RH29
product function	
Safety related data	
main contacts	20 12
for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section for	2x (20 16), 2x (18 14), 2x 12 20 12
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
solid     solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
for auxiliary contacts     — solid	2v (0.5
type of connectable conductor cross-sections	
• finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
solid or stranded     finally stranded with page and processing.	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
• solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
type of connectable conductor cross-sections for main contacts	0/0.5
of magnet coil	Screw-type terminals
at contactor for auxiliary contacts	Screw-type terminals
for auxiliary and control circuit	screw-type terminals
for main current circuit     for auxiliany and central circuit	screw-type terminals
type of electrical connection	access to the action of a
Connections/ Terminals	
— at the side	6 mm
— downwards	0 mm
— upwards	0 mm
— backwards	0 mm
— forwards	0 mm
• for live parts	
— downwards	0 mm
— at the side	6 mm
— upwards	0 mm
— backwards	0 mm
— forwards	0 mm
• for grounded parts	
— at the side	0 mm
— downwards	0 mm
— upwards	0 mm
— backwards	0 mm

General Product Approval

EMC





Confirmation







Functional Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping

Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping













other Railway Environment

Confirmation



Vibration and Shock

Environmental Confirmations

## **Further information**

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

## Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

## Information on the packaging

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

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2517-1AP00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2517-1AP00

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2517-1AP00

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

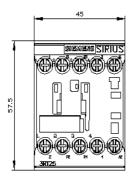
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2517-1AP00&lang=en

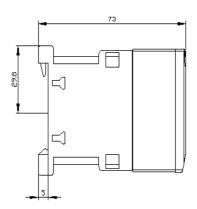
Characteristic: Tripping characteristics, I2t, Let-through current

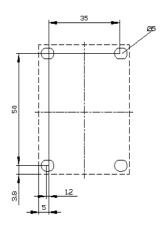
https://support.industry.siemens.com/cs/ww/en/ps/3RT2517-1AP00/char

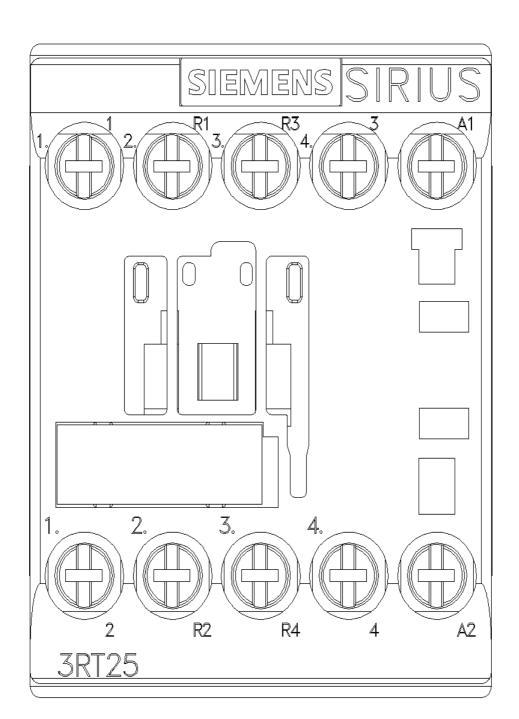
Further characteristics (e.g. electrical endurance, switching frequency)

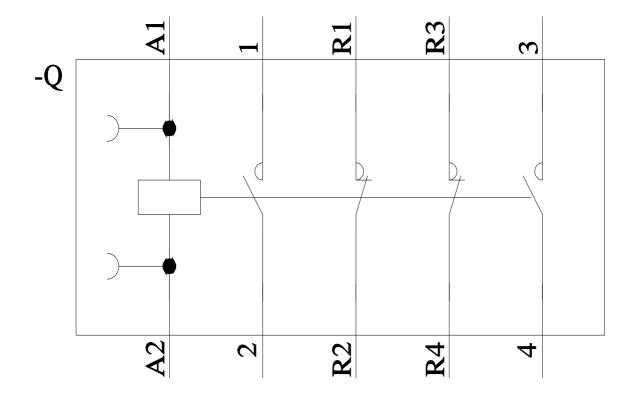
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2517-1AP00&objecttype=14&gridview=view1











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