# **SIEMENS**

Data sheet 3RT2015-1AB01



power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 24 V AC, 50/60 Hz, auxiliary contacts: 1 NO, screw terminal, size: S00

product brand name	SIRIUS	
product designation	Power contactor	
product type designation	3RT2	
General technical data		
size of contactor	S00	
product extension		
function module for communication	No	
auxiliary switch	Yes	
power loss [W] for rated value of the current		
at AC in hot operating state	0.6 W	
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.2 W	
<ul> <li>without load current share typical</li> </ul>	1.1 W	
type of calculation of power loss depending on pole	quadratic	
insulation voltage		
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V	
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V	
surge voltage resistance		
<ul> <li>of main circuit rated value</li> </ul>	6 kV	
of auxiliary circuit rated value	6 kV	
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V	
shock resistance at rectangular impulse		
• at AC	6,7g / 5 ms, 4,2g / 10 ms	
shock resistance with sine pulse		
• at AC	10,5g / 5 ms, 6,6g / 10 ms	
mechanical service life (operating cycles)		
<ul> <li>of contactor typical</li> </ul>	30 000 000	
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	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		
<ul> <li>during operation</li> </ul>	-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 %	
Environmental footprint		

Environmental Product Declaration/EDD\	Vac
Environmental Product Declaration(EPD)  Global Warming Potential [CO2 eq] total	Yes 39.6 kg
Global Warming Potential [CO2 eq] total  Global Warming Potential [CO2 eq] during manufacturing	1.18 kg
Global Warming Potential [CO2 eq] during manufacturing  Global Warming Potential [CO2 eq] during operation	38.5 kg
Global Warming Potential [CO2 eq] during operation  Global Warming Potential [CO2 eq] after end of life	-0.155 kg
Main circuit	-0.133 kg
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated value	18 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	18 A
— up to 690 V at ambient temperature 60 °C rated value	16 A
• at AC-3	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
• at AC-3e	7 A
— at 400 V rated value	6 A
— at 500 V rated value — at 690 V rated value	4.9 A
at AC-4 at 400 V rated value	6.5 A
• at AC-5a up to 690 V rated value	15.8 A
at AC-5b up to 400 V rated value	5.8 A
• at AC-6a	5.571
— up to 230 V for current peak value n=20 rated value	4 A
— up to 400 V for current peak value n=20 rated value	4 A
— up to 500 V for current peak value n=20 rated value	3.8 A
— up to 690 V for current peak value n=20 rated value	3.6 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	2.7 A
— up to 400 V for current peak value n=30 rated value	2.7 A
— up to 500 V for current peak value n=30 rated value	2.5 A
— up to 690 V for current peak value n=30 rated value	2.4 A
minimum cross-section in main circuit at maximum AC-1 rated value	2.5 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	2.6 A
at 690 V rated value	1.8 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	1.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.42 A
with 2 current paths in series at DC-1	45.
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	8.4 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.6 A 0.5 A
— at 600 V rated value	V.J A
with 3 current paths in series at DC-1	

— at 24 V rated value	15 A	
— at 24 V rated value  — at 60 V rated value	15 A	
— at 110 V rated value	15 A	
— at 220 V rated value	15 A	
— at 440 V rated value	0.9 A	
— at 600 V rated value	0.7 A	
• at 1 current path at DC-3 at DC-5		
— at 24 V rated value	15 A	
— at 60 V rated value	0.35 A	
— at 110 V rated value	0.1 A	
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>		
— at 24 V rated value	15 A	
— at 60 V rated value	3.5 A	
— at 110 V rated value	0.25 A	
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>		
— at 24 V rated value	15 A	
— at 60 V rated value	15 A	
— at 110 V rated value	15 A	
— at 220 V rated value	1.2 A	
— at 440 V rated value	0.14 A	
— at 600 V rated value	0.14 A	
operating power		
• at AC-3		
— at 230 V rated value	1.5 kW	
— at 400 V rated value	3 kW	
— at 500 V rated value	3 kW	
— at 690 V rated value	4 kW	
• at AC-3e		
— at 230 V rated value	1.5 kW	
— at 400 V rated value	3 kW	
— at 500 V rated value	3 kW	
— at 690 V rated value  — at 690 V rated value	4 kW	
operating power for approx. 200000 operating cycles at AC-	7 (1)	
4		
• at 400 V rated value	1.15 kW	
• at 690 V rated value	1.15 kW	
operating apparent power at AC-6a		
• up to 230 V for current peak value n=20 rated value	1.5 kVA	
• up to 400 V for current peak value n=20 rated value	2.7 kVA	
• up to 500 V for current peak value n=20 rated value	3.3 kVA	
up to 690 V for current peak value n=20 rated value  up to 690 V for current peak value n=20 rated value	4.3 kVA	
operating apparent power at AC-6a		
up to 230 V for current peak value n=30 rated value	1 kVA	
up to 400 V for current peak value n=30 rated value  up to 400 V for current peak value n=30 rated value	1.8 kVA	
up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value	1.8 KVA 2.2 kVA	
	2.9 kVA	
up to 690 V for current peak value n=30 rated value  short-time withstand current in cold operating state up to 40 °C	L.V NVA	
	120 At Lieu minimum group section and to AC 4 rotad value	
limited to 1 s switching at zero current maximum	120 A; Use minimum cross-section acc. to AC-1 rated value	
limited to 5 s switching at zero current maximum	86 A; Use minimum cross-section acc. to AC-1 rated value	
Iimited to 10 s switching at zero current maximum	67 A; Use minimum cross-section acc. to AC-1 rated value	
limited to 30 s switching at zero current maximum	52 A; Use minimum cross-section acc. to AC-1 rated value	
Iimited to 60 s switching at zero current maximum	43 A; Use minimum cross-section acc. to AC-1 rated value	
no-load switching frequency	40,000 4/1	
• at AC	10 000 1/h	
operating frequency		
• at AC-1 maximum	1 000 1/h	
• at AC-2 maximum	750 1/h	
• at AC-3 maximum	750 1/h	
• at AC-3e maximum	750 1/h	
• at AC-4 maximum	250 1/h	

Sype of voltage of the control supply voltage   AC	Control circuit/ Control		
control supply voltage at AC		AC	
a it 50 Hz rited value			
### 100 Hz relot value   24 V   24 V		24 V	
Special Part   Spec			
magnet coll at AC		24 V	
apparent pick-up power of magnet coil at AC	• at 50 Hz	0.8 1.1	
### 450 Hz	• at 60 Hz	0.85 1.1	
* al 60 Hz	apparent pick-up power of magnet coil at AC		
Inductive power factor with closing power of the coil   a 150 Hz   0.75   0.7	● at 50 Hz	27 VA	
	• at 60 Hz	24.3 VA	
	inductive power factor with closing power of the coil		
### A C C C C C C C C C C C C C C C C C	• at 50 Hz	0.8	
	• at 60 Hz	0.75	
miductive power factor with the holding power of the coil   sat 160 Hz	apparent holding power of magnet coil at AC		
a ti 50 Hz	• at 50 Hz	4.2 VA	
• at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at AC  opening delay • at AC  opening delay • at AC  scring time  arcing time  ontrol version of the switch operating mechanism  Varidiary circuit  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-12 maximum  operational current at AC-18 maximum  operational current at DC-12  • at 24 V rated value • at 600 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 10 V rated value •	• at 60 Hz	3.3 VA	
• at 80 Hz   0.25	inductive power factor with the holding power of the coil		
* al AC   9 35 ms     * al AC   9 35 ms     * al AC   4 15 ms     * arcing time   10 15 ms     * arcing time   5 15 ms     * arcing time   7 15 ms     * arcing tim	● at 50 Hz	0.25	
• at AC         9 35 ms           opening delay         4 15 ms           arcing time         10 15 ms           control version of the switch operating mechanism         Standard A1 - A2           Wildliary circuit         1           number of NO contacts for auxiliary contacts instantaneous contact         1           operational current at AC-12 maximum         10 A           operational current at AC-15         • 10 A           • at 230 V rated value         3 A           • at 500 V rated value         3 A           • at 690 V rated value         1 A           • at 690 V rated value         6 A           • at 110 V rated value         6 A           • at 110 V rated value         3 A           • at 125 V rated value         3 A           • at 125 V rated value         3 A           • at 125 V rated value         2 A           • at 220 V rated value         1 A           • at 220 V rated value         1 A           • at 24 V rated value         2 A           • at 48 V rated value         2 A           • at 20 V rated value         1 A           • at 20 V rated value         2 A           • at 80 V rated value         2 A           • at 80 V rated va	• at 60 Hz	0.25	
a d AC	closing delay		
* at AC   4 15 ms   10	• at AC	9 35 ms	
arcing time         10 15 ms           control version of the switch operating mechanism         Standard A1 - A2           Auxiliary circuit         To a standard A1 - A2           number of NO contacts for auxiliary contacts instantaneous contact         1 operational current at AC-12 maximum           operational current at AC-15	opening delay		
Control version of the switch operating mechanism   Standard A1 - A2	• at AC	4 15 ms	
Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15	arcing time	10 15 ms	
number of NO contacts for auxilliary contacts instantaneous contact         1           operational current at AC-12 maximum         10 A           operational current at AC-15         10 A           at 230 V rated value         10 A           at 400 V rated value         2 A           at 500 V rated value         1 A           operational current at DC-12         1 A           at 48 V rated value         6 A           at 48 V rated value         6 A           at 100 V rated value         3 A           at 110 V rated value         3 A           at 125 V rated value         1 A           at 220 V rated value         1 A           at 220 V rated value         1 A           at 220 V rated value         2 A           at 600 V rated value         10 A           at 24 V rated value         2 A           at 48 V rated value         2 A           at 48 V rated value         2 A           at 110 V rated value         2 A           at 110 V rated value         2 A           at 122 V rated value         1 A           at 220 V rated value         0.3 A           at 220 V rated value         0.1 A           contact reliability of auxiliary contacts         1 faulty swi	control version of the switch operating mechanism	Standard A1 - A2	
contact         Operational current at AC-12 maximum         10 A           operational current at AC-15         Contact and a Contact a	Auxiliary circuit		
Name		1	
• at 230 V rated value	operational current at AC-12 maximum	10 A	
at 400 V rated value     at 500 V rated value     at 690 V rated value     at 690 V rated value     at 24 V rated value     at 48 V rated value     at 48 V rated value     at 100 V rated value     at 100 V rated value     at 100 V rated value     at 110 V rated value     at 110 V rated value     at 125 V rated value     at 220 V rated value     at 220 V rated value     at 24 V rated value     at 600 V rated value     at 220 V rated value     at 220 V rated value     at 220 V rated value     at 24 V rated value     at 25 V rated value     at 26 V rated value     at 48 V rated value     at 110 V rated value     at 125 V rated value     at 20 V rated value     at 600	operational current at AC-15		
e at 500 V rated value	• at 230 V rated value	10 A	
• at 690 V rated value 10 A  operational current at DC-12  • at 24 V rated value 6A A • at 48 V rated value 6A A • at 10 V rated value 3A A • at 110 V rated value 2A A • at 125 V rated value 1A A • at 220 V rated value 1A A • at 60 V rated value 1A A • at 220 V rated value 1A A • at 600 V rated value 1A A • at 48 V rated value 2A A • at 48 V rated value 2A A • at 48 V rated value 2A A • at 110 V rated value 2A A • at 110 V rated value 1A A • at 125 V rated value 1A A • at 126 V rated value 1A A • at 127 V rated value 1A A • at 128 V rated value 1A A • at 128 V rated value 1A A • at 129 V rated value 1A A • at 600 V rated value 1A A  contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA)  IJCGSA ratings  full-load current (FLA) for 3-phase AC motor 4	• at 400 V rated value	3 A	
Departional current at DC-12	• at 500 V rated value	2 A	
	at 690 V rated value	1 A	
<ul> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>10 A</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 10 V rated value</li> <li>at 10 V rated value</li> <li>at 110 V rated value</li> <li>at 22 V rated value</li> <li>at 25 V rated value</li> <li>at 20 V rated value</li> <li>at 20 V rated value</li> <li>at 80 V rated value</li> <li>at 600 V rated value</li> <li>at 70 A</li> </ul>	operational current at DC-12		
	at 24 V rated value	10 A	
<ul> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>0.15 A</li> </ul> 0perational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 200 V rated value</li> <li>at 600 V rated value</li> <li>at 480 V rated value</li> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>at 70 A 8 A</li> <li>a</li></ul>	• at 48 V rated value	6 A	
	• at 60 V rated value	6 A	
	• at 110 V rated value	3 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 1 A • at 110 V rated value 1 A • at 125 V rated value 1 A • at 125 V rated value 1 A • at 220 V rated value 1 A • at 220 V rated value 1 A • at 600 V rated	• at 125 V rated value	2 A	
operational current at DC-13	• at 220 V rated value	1 A	
<ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>1 A</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>o.1 A</li> <li>contact reliability of auxiliary contacts</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> <li>JL/CSA ratings</li> <li>full-load current (FLA) for 3-phase AC motor</li> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>6.1 A</li> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>0.25 hp</li> </ul>	at 600 V rated value	0.15 A	
<ul> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>1 A</li> <li>at 125 V rated value</li> <li>0.9 A</li> <li>at 220 V rated value</li> <li>0.3 A</li> <li>at 600 V rated value</li> <li>0.1 A</li> </ul> contact reliability of auxiliary contacts <ul> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> </ul> JL/CSA ratings full-load current (FLA) for 3-phase AC motor <ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>6.1 A</li> </ul> yielded mechanical performance [hp] <ul> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>0.25 hp</li> </ul>	operational current at DC-13		
<ul> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 480 V rated value</li> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>6.1 A</li> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>0.25 hp</li> </ul>	• at 24 V rated value	10 A	
<ul> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>o.1 A</li> </ul> contact reliability of auxiliary contacts <ul> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> </ul> JL/CSA ratings full-load current (FLA) for 3-phase AC motor <ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>for single-phase AC motor</li> <li>at 100/120 V rated value</li> <li>0.25 hp</li> </ul>	• at 48 V rated value	2 A	
at 125 V rated value at 220 V rated value 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  full-load current (FLA) for 3-phase AC motor at 480 V rated value 4.8 A at 600 V rated value 5.1 A  yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value 0.25 hp	• at 60 V rated value	2 A	
at 220 V rated value 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  full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 5.1 A  yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value 0.25 hp	• at 110 V rated value	1 A	
● at 600 V rated value  contact reliability of auxiliary contacts  1 faulty switching per 100 million (17 V, 1 mA)  JL/CSA ratings  full-load current (FLA) for 3-phase AC motor  ● at 480 V rated value  ● at 600 V rated value  9 telded mechanical performance [hp]  ● for single-phase AC motor  — at 110/120 V rated value  0.25 hp	at 125 V rated value	0.9 A	
contact reliability of auxiliary contacts  1 faulty switching per 100 million (17 V, 1 mA)  JL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  for single-phase AC motor  — at 110/120 V rated value  0.25 hp	at 220 V rated value	0.3 A	
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  for single-phase AC motor  — at 110/120 V rated value  0.25 hp	at 600 V rated value	0.1 A	
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value 4.8 A  • at 600 V rated value 6.1 A  yielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value 0.25 hp	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)	
<ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>6.1 A</li> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>0.25 hp</li> </ul>	JL/CSA ratings		
• at 600 V rated value  yielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value  0.25 hp	full-load current (FLA) for 3-phase AC motor		
yielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value  0.25 hp	• at 480 V rated value	4.8 A	
<ul> <li>for single-phase AC motor</li> <li>— at 110/120 V rated value</li> <li>0.25 hp</li> </ul>	at 600 V rated value	6.1 A	
— at 110/120 V rated value 0.25 hp			
	yielded mechanical performance [hp]		
— at 230 V rated value 0.75 hp			
	• for single-phase AC motor	0.25 hp	

• for 3-phase AC motor		
— at 200/208 V rated value	1.5 hp	
— at 220/230 V rated value	2 hp	
— at 460/480 V rated value	3 hp	
— at 575/600 V rated value	5 hp	
contact rating of auxiliary contacts according to UL	A600 / Q600	
Short-circuit protection		
design of the fuse link		
<ul> <li>for short-circuit protection of the main circuit</li> </ul>		
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)	
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)	
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)	
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 60715	
height	58 mm	
width	45 mm	
depth	73 mm	
required spacing		
with side-by-side mounting		
— forwards	10 mm	
— upwards	10 mm	
— downwards	10 mm	
— at the side	0 mm	
<ul> <li>for grounded parts</li> </ul>		
— forwards	10 mm	
— upwards	10 mm	
— at the side	6 mm	
— downwards	10 mm	
for live parts		
— forwards	10 mm	
— upwards	10 mm	
— downwards	10 mm	
— at the side	6 mm	
Connections/ Terminals		
type of electrical connection		
for main current circuit	screw-type terminals	
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals	
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals	
• of magnet coil	Screw-type terminals	
type of connectable conductor cross-sections		
• for main contacts		
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²	
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
• for AWG cables for main contacts	2x (20 16), 2x (18 14), 2x 12	
connectable conductor cross-section for main contacts		
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²	
connectable conductor cross-section for auxiliary contacts		
solid or stranded	0.5 4 mm²	
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²	
type of connectable conductor cross-sections		
for auxiliary contacts		
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²	
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 2x 12	
AWG number as coded connectable conductor cross section		
• for main contacts	20 12	
for auxiliary contacts	20 12	
Safety related data		

product function		
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes; with 3RH29	
suitability for use safety-related switching OFF	Yes; applies only to contactor operating mechanism	
proportion of dangerous failures		
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %	
<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %	
B10 value with high demand rate according to SN 31920	1 000 000	
failure rate [FIT] with low demand rate according to SN 31920	100 FIT	
IEC 61508		
T1 value		
<ul> <li>for proof test interval or service life according to IEC 61508</li> </ul>	20 a	
Electrical Safety		
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	
Approvals Certificates		

### **General Product Approval**



Confirmation









General	Product	t Approval
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**EMV** 

**Functional Saftey** 

**Test Certificates** 

. ...

<u>KC</u>





Type Examination Certificate

Type Test Certificates/Test Report Special Test Certificate

### Marine / Shipping





**Miscellaneous** 









Marine / Shipping

other

Confirmation

Confirmation

Special Test Certific-

Railway



**Environment** 

### Environment

Environmental Confirmations

## Further information

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)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2015-1AB01}$ 

Cax online generator

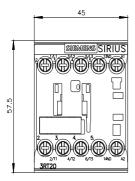
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2015-1AB01

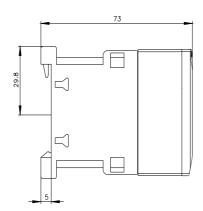
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-1AB01 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax">http://www.automation.siemens.com/bilddb/cax</a> de.aspx?mlfb=3RT2015-1AB01&lang=en

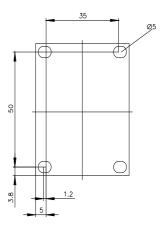
Characteristic: Tripping characteristics, I2t, Let-through current

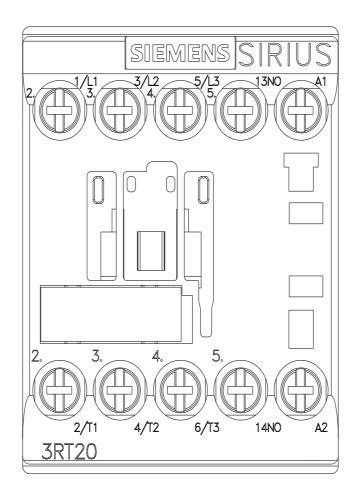
https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-1AB01/char

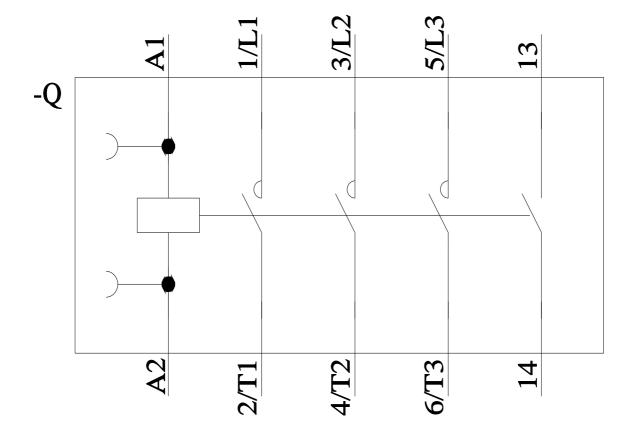
Further characteristics (e.g. electrical endurance, switching frequency)
<a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2015-1AB01&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2015-1AB01&objecttype=14&gridview=view1</a>











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