## **SIEMENS**

Data sheet 3RT2047-3AP00



power contactor, AC-3e/AC-3, 110 A, 55 kW / 400 V, 3-pole, 230 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, main circuit: screw terminal, control and auxiliary circuit: spring-loaded terminal, size: S3  $\,$ 

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S3
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	23.7 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	7.9 W
without load current share typical	7.3 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
of auxiliary circuit with degree of pollution 3 rated value	690 V
surge voltage resistance	
of main circuit rated value	8 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	10.3g / 5 ms, 6,.g / 10 ms
shock resistance with sine pulse	
• at AC	16.3g / 5 ms, 10.g / 10 ms
mechanical service life (operating cycles)	
of contactor typical	10 000 000
<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)	03/01/2017
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3

number of NO contacts for main contacts	3
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	1 000 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	1 000 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	130 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	130 A
value	
<ul> <li>up to 690 V at ambient temperature 60 °C rated value</li> </ul>	110 A
• at AC-3	
— at 400 V rated value	110 A
— at 500 V rated value	110 A
— at 690 V rated value	98 A
— at 1000 V rated value	30 A
• at AC-3e	30 A
	110 A
— at 400 V rated value	110 A
— at 500 V rated value	110 A
— at 690 V rated value	98 A
— at 1000 V rated value	30 A
at AC-4 at 400 V rated value	97 A
at AC-5a up to 690 V rated value	120 A
at AC-5b up to 400 V rated value	110 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	98 A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	98 A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	98 A
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	98 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	65.3 A
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	65.3 A
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	65.3 A
— up to 690 V for current peak value n=30 rated value	65.3 A
minimum cross-section in main circuit at maximum AC-1 rated value	50 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at	
AC-4	
• at 400 V rated value	46 A
• at 690 V rated value	36 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	100 A
— at 60 V rated value	60 A
— at 110 V rated value	9 A
— at 220 V rated value	2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.4 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	10 A
— at 440 V rated value	1.8 A
— at 600 V rated value	1A
with 3 current paths in series at DC-1	
— at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	80 A
— at 440 V rated value	4.5 A

— at 600 V rated value	2.6 A
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	40 A
— at 60 V rated value	6 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.15 A
— at 600 V rated value	0.06 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	7 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.16 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	35 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.35 A
operating power	
• at AC-2 at 400 V rated value	55 kW
• at AC-3	
— at 230 V rated value	30 kW
— at 400 V rated value	55 kW
— at 500 V rated value	75 kW
— at 690 V rated value	90 kW
— at 1000 V rated value	37 kW
• at AC-3e	
— at 230 V rated value	30 kW
— at 400 V rated value	55 kW
— at 500 V rated value	75 kW
— at 690 V rated value	90 kW
— at 1000 V rated value	37 kW
operating power for approx. 200000 operating cycles at AC-	
4	
at 400 V rated value	24.3 kW
at 690 V rated value	32.9 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	39 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	67 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	84 kVA
up to 690 V for current peak value n=20 rated value	117 kVA
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	26 kVA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	45.2 kVA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	56.5 kVA
up to 690 V for current peak value n=30 rated value	78 kVA
short-time withstand current in cold operating state up to 40 °C	
limited to 1 s switching at zero current maximum	1 960 A; Use minimum cross-section acc. to AC-1 rated value
limited to 7 s switching at zero current maximum	1 502 A; Use minimum cross-section acc. to AC-1 rated value
limited to 3 3 switching at zero current maximum	1 095 A; Use minimum cross-section acc. to AC-1 rated value
limited to 10's switching at zero current maximum     limited to 30's switching at zero current maximum	707 A; Use minimum cross-section acc. to AC-1 rated value
limited to 50 s switching at zero current maximum     limited to 60 s switching at zero current maximum	562 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	552, 500 minimum 5.000 coolion ado. to 710 mateu value
at AC	5 000 1/h
operating frequency	0 000 1/11
at AC-1 maximum	900 1/h
- at AO T maximall	000 mi

* A C-2 institution * A C-3 institution * A C-	• at AC-2 maximum	350 1/h
a th AC-4 maximum by ovilage of the control supply voltage Control supply ovilage at AC a to the trained value greating range factor control supply voltage control supply coltage at AC a to the trained value control supply coltage at AC a to the trained value control supply coltage at AC a to the trained value control supply voltage at AC a to the trained value control supply voltage at AC a to the trained value control supply supply voltage rated value of magnet coil at AC a to the trained value control value of the trained value control varion of the avitch operating mechanism A trained value control varion of the avitch operating mechanism A value of NC contacts for auxiliary contacts instantaneous control varion of the avitch operating mechanism control varion of the contacts for auxiliary contacts instantaneous control varion of the contacts for auxiliary contacts instantaneous control varion of the contacts for auxiliary contacts instantaneous control control auxiliary contacts for auxiliary contacts instantaneous control control		
Control circuit/ Control   Type of voltage of the control supply voltage at AC   at 10 Hz rited value   250 V		
type of voltage of the control supply voltage control supply voltage at AC  • at 60 Ptz mide value  230 V  operating range factor control supply voltage rated value of magnet coil at AC  • at 60 Ptz  apparent plack-up power of magnet coil at AC  • at 60 Ptz  apparent plack-up power of magnet coil at AC  • at 60 Ptz  apparent holding power of magnet coil at AC  • at 60 Ptz  apparent holding power of magnet coil at AC  • at 60 Ptz  apparent holding power of magnet coil at AC  • at 60 Ptz  closing delay  • at AC  7 350 ms  7 350		
control supply voltage at AC  at 50 Hz zaded value  opvarating range factor control supply voltage rated value of  alt 50 Hz  supparent pick-up power of magnet coil at AC  at 50 Hz  value of the coil of the coil  apparent holding power of magnet coil at AC  at 50 Hz  supparent holding power of magnet coil at AC  at 50 Hz  supparent holding power of magnet coil at AC  at 50 Hz  supparent holding power of magnet coil at AC  at 50 Hz  supparent holding power of magnet coil at AC  at 50 Hz  supparent holding power factor with the holding power of the coil  at 50 Hz  at 50 Hz  closing delay  at AC  10 2t ms  acring time  10 20 ms  control version of the switch operating mechanism  Availing reticuit  number of NC contacts for suciliary contacts instantaneous contact  number of NC contacts for suciliary contacts instantaneous  contact  number of NC contacts for suciliary contacts instantaneous  contact  apparational current at AC-12 maximum  operational current at AC-12 maximum  at 60 N rated value  at 18 OV rated value  at 10 OV rated val		AC
* at 50 Hz rated value     * at 50 Hz     * at 50 Hz     * at 50 Hz     * at 50 Hz     * apparent pick-up power of magnet coll at AC     * at 50 Hz     * at 60 Hz     * at 60 Hz     * at 60 Hz     * at 60 Hz     * at AC     * at 60 Hz     * at AC     * arking time     * at AC     * arking time     * at AC     * at AC     * arking time     * at AC     * at 60 Hz     * arking time     * at AC     * at 60 Hz     * arking time     * at AC     * at 60 Hz     * arking time     * at AC     * at 60 Hz     * arking time     * at AC     * at 60 Hz		
magnet col at AC		230 V
apparent pick-up power of magnet coil at AC  at 50 Hz  ot 150 Hz  Hz  ot		
a st 50 Hz	● at 50 Hz	0.8 1.1
a d 50 Hz   0.81		296 VA
at 50 Hz     apparent holding power of magnet coil at AC     at 50 Hz     inductive power factor with the holding power of the coil     at 50 Hz     inductive power factor with the holding power of the coil     at 50 Hz     inductive power factor with the holding power of the coil     at 50 Hz     inductive power factor with the holding power of the coil     at 50 Hz     inductive power factor with the holding power of the coil     at 50 Hz     inductive power factor with the holding power of the coil     inductive power factor with the holding power of the coil     inductive power factor with the holding power of the coil     inductive power factor with the holding power of the coil     inductive power factor with the holding power of the coil     inductive power factor with the holding power of the coil     inductive power factor with the holding power of the coil     inductive power factor with the holding power of the coil     inductive power factor with the holding power of the coil     inductive power factor with the holding power of the coil     inductive power factor with the holding power of the coil     inductive power factor with the holding power of the coil     inductive power factor with the holding power of the coil power of the co		
Inductive power factor with the holding power of the coil   at 50 Hz   0.38		0.61
Inductive power factor with the holding power of the coil   • at 50 Hz   0.38     closing dolay	apparent holding power of magnet coil at AC	
e at 50 Hz  closing delay  at AC  13 50 ms  opening delay  at AC  10 21 ms  arcing time  10 20 ms  Standard A1 - A2  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous  contact  number of NO contacts for auxiliary contacts instantaneous  contact  number of NO contacts for auxiliary contacts instantaneous  contact  number of NO contacts for auxiliary contacts instantaneous  contact  number of NO contacts for auxiliary contacts instantaneous  contact  number of NO contacts for auxiliary contacts instantaneous  contact  number of NO contacts for auxiliary contacts instantaneous  contact  number of NO contacts for auxiliary contacts instantaneous  1 contact  number of NO contacts for auxiliary contacts instantaneous  1 contact  number of NO contacts for auxiliary contacts instantaneous  1 contact  number of NO contacts for auxiliary contacts instantaneous  1 contact  number of NO contacts for auxiliary contacts  1 contact  1 co	● at 50 Hz	19 VA
e at AC 13 50 ms opening delay	inductive power factor with the holding power of the coil	
• at AC  opening delay  • at AC  arcing time  10 21 ms  standard A1 - A2  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact  number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contacts  number of NO contacts for auxiliary contacts instantaneous contact	• at 50 Hz	0.38
e at AC 10 21 ms arcing time 10 20 ms	closing delay	
aricing time	• at AC	13 50 ms
arcing time	opening delay	
control version of the switch operating mechanism  Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  10 A  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value • at 100 V rated value • at 100 V rated value • at 110 V rated value • at 125 V rated value • at 126 V rated value • at 127 V rated value • at 128 V rated value • at 128 V rated value • at 100 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 120 V rated value • at 110 V rated value • at 120 V rated valu		
Auxiliary circuit   number of NC contacts for auxiliary contacts instantaneous contact   number of NC contacts for auxiliary contacts instantaneous contact   number of NO contacts for auxiliary contacts instantaneous   1		
number of NC contacts for auxiliary contacts instantaneous contact c		Standard A1 - A2
contact         number of NO contacts for auxiliary contacts instantaneous contact           operational current at AC-12 maximum         10 A           operational current at AC-15         6 A           • at 230 V rated value         6 A           • at 400 V rated value         1 A           • at 560 V rated value         1 A           • at 24 V rated value         6 A           • at 48 V rated value         6 A           • at 48 V rated value         6 A           • at 10 V rated value         6 A           • at 10 V rated value         3 A           • at 220 V rated value         1 A           • at 220 V rated value         2 A           • at 220 V rated value         1 A           • at 220 V rated value         0.15 A           • operational current at DC-13         10 A           • at 32 V rated value         2 A           • at 34 V rated value         2 A           • at 34 V rated value         2 A           • at 10 V rated value         2 A           • at 10 V rated value         0.3 A           • at 22 V rated value         0.3 A           • at 22 V rated value         0.1 A           • at 360 V rated value         0.1 A           • at 480 V rated value <td></td> <td></td>		
Operational current at AC-12 maximum   10 A	contact	
operational current at AC-15  • at 230 V rated value	contact	
• at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value • at 84 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 80 V rated value • at 600 V rated value • at 220 V rated value • at 320 V rated value • at 48 V rated value • at 600 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 110 V rated value • at 120 V rated value • at 120 V rated value • at 20 V rated value • at 20 V rated value • at 480 V rated value • at 600 V rated value • at 60	·	10 A
• at 400 V rated value 2 A • at 590 V rated value 1 A  operational current at DC-12  • at 24 V rated value 10 A • at 48 V rated value 6 A • at 690 V rated value 6 A • at 690 V rated value 10 A • at 48 V rated value 6 A • at 110 V rated value 2 A • at 110 V rated value 1 A • at 125 V rated value 2 A • at 220 V rated value 1 A • at 600 V rated value 1 A • at 600 V rated value 2 A • at 220 V rated value 1 A • at 600 V rated value 2 A • at 220 V rated value 2 A • at 24 V rated value 1 A • at 600 V rated value 2 A • at 24 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 110 V rated value 1 A • at 125 V rated value 1 A • at 125 V rated value 1 A • at 120 V rated value 1 A • at 120 V rated value 1 A • at 125 V rated value 1 A • at 200 V rated value 1 A • at 200 V rated value 1 A • at 200 V rated value 1 A • at 600 V rated valu	•	
• at 500 V rated value		
• 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 110 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 600 V rated value 1A A • at 24 V rated value 1A A • at 24 V rated value 2A A • at 125 V rated value 2A A • at 125 V rated value 2A A • at 100 V rated value 2A A • at 110 V rated value 2A A • at 110 V rated value 1A A • at 25 V rated value 1A A • at 2600 V rated value 1A A • at 480 V rated value 1A A • at 480 V rated value 1A A  contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA)  ULICSA ratings  full-load current (FLA) for 3-phase AC motor • at 480 V rated value 99 A  yleided mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 10 hp		
Operational current at DC-12		
<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 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 42 V rated value</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 25 V rated value</li> <li>at 10 V rated value</li> <li>at 125 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</li></ul>		TA .
<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>operational current at DC-13</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 24 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 200 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>90 A</li> <li>at 600 V rated value</li> <li>at 480 V rated value</li> <li>99 A</li> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>10 hp</li> </ul>		10 Δ
<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 600 V rated value</li> <li>operational current at DC-13</li> <li>at 24 V rated value</li> <li>at 48 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>at 125 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 20 V rated value</li> <li>at 600 V rated value</li> <li>at 360 V rated value</li> <li>at 480 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></ul>		
<ul> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>1 A</li> <li>at 600 V rated value</li> <li>0.15 A</li> <li>operational current at DC-13</li> <li>at 24 V rated value</li> <li>at 80 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 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</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>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 70 A</li> <li>at 600 V rated value</li> <li>at 70 A</li> <li>at 10 A</li> <li>at 24 V rated value</li> <li>at 20 V rated value</li> <li>at 600 V rated value</li> <li>at 10 hp</li> </ul>		
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>1 A</li> <li>at 600 V rated value</li> <li>0.15 A</li> <li>operational current at DC-13</li> <li>at 24 V rated value</li> <li>at 80 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 125 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 3A</li> <li>at 600 V rated value</li> <li>at 3A</li> <li>at 600 V rated value</li> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>at 70 False AC motor</li> <li>at 600 V rated value</li> <li>at 100 V rated value</li> </ul>		
• at 220 V rated value • at 600 V rated value • at 600 V rated value  operational current at DC-13  • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value  ontact reliability of auxiliary contacts  full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value		
• at 600 V rated value		
Operational 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 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>at 600 V rated value</li> <li>at 15 V rated value</li> <li>at 600 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>a</li></ul>		
<ul> <li>at 60 V rated value</li> <li>at 110 V rated value</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> <li>contact reliability of auxiliary contacts</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> <li>UL/CSA ratings</li> <li>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>96 A</li> <li>at 600 V rated value</li> <li>99 A</li> </ul> </li> <li>yielded mechanical performance [hp] <ul> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>10 hp</li> </ul> </li> </ul>	•	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>0.1 A</li> <li>contact reliability of auxiliary contacts</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> <li>UL/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>99 A</li> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>10 hp</li> </ul>	• at 48 V rated value	
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>0.1 A</li> <li>contact reliability of auxiliary contacts</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> <li>UL/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>99 A</li> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>10 hp</li> </ul>	• at 60 V rated value	2 A
<ul> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>0.1 A</li> <li>contact reliability of auxiliary contacts</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> <li>UL/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>99 A</li> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>10 hp</li> </ul>	• at 110 V rated value	1 A
<ul> <li>at 600 V rated value</li> <li>contact reliability of auxiliary contacts</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> <li>UL/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>99 A</li> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>10 hp</li> </ul>	• at 125 V rated value	0.9 A
contact reliability of auxiliary contacts  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  99 A  yielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value  10 hp	• at 220 V rated value	0.3 A
UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value 96 A  • at 600 V rated value 99 A  yielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value 10 hp	• at 600 V rated value	0.1 A
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value 96 A  • at 600 V rated value 99 A  yielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value 10 hp		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>99 A</li> </ul> yielded mechanical performance [hp] <ul> <li>for single-phase AC motor</li> <li>— at 110/120 V rated value</li> <li>10 hp</li> </ul>	UL/CSA ratings	
at 600 V rated value  99 A  yielded mechanical performance [hp]  for single-phase AC motor  — at 110/120 V rated value  10 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 10 hp	• at 480 V rated value	96 A
for single-phase AC motor  — at 110/120 V rated value  10 hp		99 A
— at 110/120 V rated value 10 hp		
— at 230 V rated value 20 hp		
	— at 230 V rated value	20 np

for Ourhous AO as 1	
• for 3-phase AC motor	22.1
— at 200/208 V rated value	30 hp
— at 220/230 V rated value	40 hp
— at 460/480 V rated value	75 hp
— at 575/600 V rated value	100 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	-O. 050 A (000 V 400 I.A) -N. 400 A (000 V 400 I.A) B000, 000 A (445 V 00
— with type of coordination 1 required	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)
— with type of assignment 2 required	gG: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A (415V,80kA)
for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
nstallation/ mounting/ dimensions	44000 4 11 11 11 11 11 11 11 11 11 11 11 11
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
side-by-side mounting	Yes
height	140 mm
width	70 mm
depth	152 mm
required spacing	
with side-by-side mounting	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
<ul> <li>for grounded parts</li> </ul>	
— forwards	20 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
for live parts	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control circuit	spring-loaded terminals
at contactor for auxiliary contacts	Spring-type terminals
• of magnet coil	Spring-type terminals
type of connectable conductor cross-sections for main contacts	
finely stranded with core end processing	2x (2.5 35 mm²), 1x (2.5 50 mm²)
connectable conductor cross-section for main contacts	,, (
• solid	2.5 16 mm²
• stranded	6 70 mm <sup>2</sup>
finely stranded with core end processing	2.5 50 mm²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 2.5 mm²
finely stranded with core end processing	0.5 2.5 mm²
finely stranded without core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	5.5 2.6 min
• for auxiliary contacts	
solid or stranded	2v (0.5 2.5 mm²)
	2x (0.5 2.5 mm²)
— finely stranded without zero and processing	2x (0.5 1.5 mm²)
— finely stranded without core end processing	2x (0.5 2.5 mm²)
• for AWG cables for auxiliary contacts	2x (20 16)
AWG number as coded connectable conductor cross section	

for main contacts	10 2
<ul> <li>for auxiliary contacts</li> </ul>	20 14
Safety related data	
product function	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No
suitability for use safety-related switching OFF	Yes
B10 value with high demand rate according to SN 31920	1 000 000
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 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 a
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Certificates/ approvals	

**General Product Approval** 

**EMC** 

Confirmation





Miscellaneous





**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping





**Miscellaneous** 

Type Test Certificates/Test Report

**Special Test Certific-**<u>ate</u>



Marine / Shipping











CCS / China Classific-

ation Society

**Miscellaneous** 

other

**Dangerous Good** other **Environment** 

**Environmental Con-**Confirmation **Miscellaneous Transport Information** firmations

## 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=3RT2047-3AP00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2047-3AP00

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

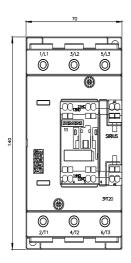
https://support.industry.siemens.com/cs/ww/en/ps/3RT2047-3AP00

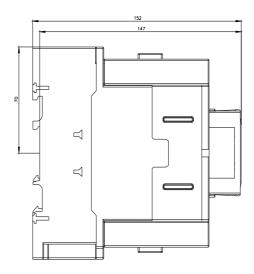
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

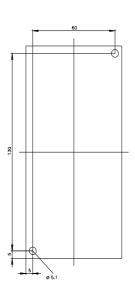
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2047-3AP00&lang=en

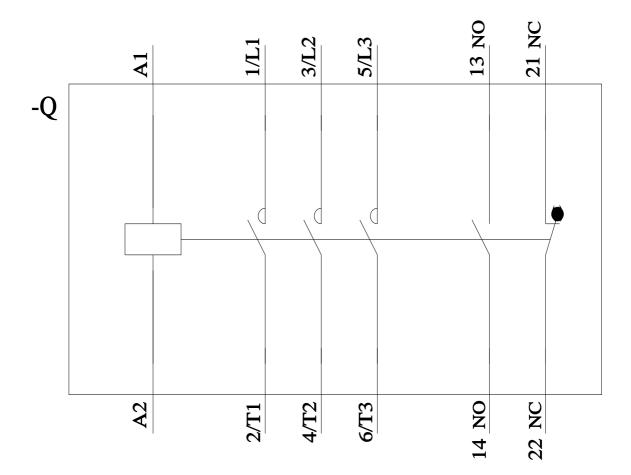
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2047-3AP00/char









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