## **SIEMENS**

Data sheet 3RT2346-1AF00



contactor AC-1, 140 A, 400 V / 40  $^{\circ}$ C, 4-pole, 110 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S3

product brand name	SIRIUS
product designation	Contactor
product type designation	3RT23
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>	47.2 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	11.8 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 the auxiliary and control circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
of auxiliary circuit rated value	6 kV
shock resistance at rectangular impulse	
• at AC	6.7 g / 5 ms, 4.0 g / 10 ms
• at DC	6.7 g / 5 ms, 4g / 10 ms
shock resistance with sine pulse	
• at AC	10.6 g / 5 ms, 6.3 g / 10 ms
• at DC	10.6 g / 5 ms, 6.3 g / 10 ms
mechanical service life (operating cycles)	
of contactor typical	10 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	09/01/2017
Weight	2.055 kg
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(EPD)	Yes

global warming potential [CO2 eq] total	481 kg
global warming potential [CO2 eq] during manufacturing	9.57 kg
global warming potential [CO2 eq] during operation	473 kg
global warming potential [CO2 eq] after end of life	-1.54 kg
Main circuit	
number of poles for main current circuit	4
number of NO contacts for main contacts	4
type of voltage for main current circuit	AC
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	140 A
• at AC-1	
<ul> <li>— up to 690 V at ambient temperature 40 °C rated value</li> </ul>	140 A
— up to 690 V at ambient temperature 60 °C rated value	130 A
minimum cross-section in main circuit at maximum AC-1 rated value	50 mm²
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	80 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
<ul><li>with 2 current paths in series at DC-1</li></ul>	
— at 24 V rated value	80 A
— at 60 V rated value	80 A
— at 110 V rated value	80 A
— at 220 V rated value	10 A
— at 440 V rated value	1.8 A
<ul><li>with 3 current paths in series at DC-1</li></ul>	
— at 24 V rated value	80 A
— at 60 V rated value	80 A
— at 110 V rated value	80 A
— at 220 V rated value	80 A
— at 440 V rated value	4.5 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 60 V rated value	6.5 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.15 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	80 A
— at 60 V rated value	80 A
— at 110 V rated value	80 A
— at 220 V rated value	7 A
— at 440 V rated value	0.42 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	80 A
— at 60 V rated value	80 A
— at 110 V rated value	80 A
— at 220 V rated value	35 A
— at 440 V rated value	0.8 A
no-load switching frequency	
• at AC	5 000 1/h
operating frequency at AC-1 maximum	1 000 1/s
Control circuit/ Control	
type of voltage	AC
type of voltage of the control supply voltage	AC
control supply voltage at AC	

### 100 Hz rated value or magnet coll at AC   0.8   1.1   1.	at FO LIP vata division	440.1/
mapper to plack up power of magnet coil at AC	at 50 Hz rated value	110 V
### 150 Fk2		
apparent polick-up power of magnet coil at AC		0.8 1.1
Inductive power factor with closing power of the coil		0.0 1.1
indiscribe power factor with closing power of the coll		296 VA
a paparent holding power of magnet coil at AC		200 V//
a part holding power of magnet coil at AC		0.61
Inductive power factor with the holding power of the coll   # a 50 Hz		0.01
inductive power factor with the holding power of the coil		10 VΔ
Closing delay		10 07
# IAC   10 21 ms		0.38
eat AC   13 50 ms		0.00
opening delay		13 50 ms
** at AC		10 00 III0
arcing time		10 21 ms
Auxiliary circuit		
Auxiliary circuit  number of NC contacts for auxiliary contacts  instantaneous contact  number of NC contacts for auxiliary contacts  instantaneous contact  number of NC contacts for auxiliary contacts  instantaneous contact  instantaneous contact  instantaneous contact  instantaneous contact  operational current at AC-12 maximum  operational current at AC-12 maximum  operational current at AC-15  instantaneous contact  instantaneous couter  instantaneous contact  instantaneous contact  instantaneous		
number of NC contacts for auxillary contacts  attachable ainstantaneous contact 1 number of NO contacts for auxillary contacts attachable attachable attachable ainstantaneous contact 1 coperational current at AC-12 maximum 10 A poperational current at AC-12 maximum 10 A poperational current at AC-18 maximum 2 A at 400 V rated value 3 A at 500 V rated value 2 A at 500 V rated value 3 A at 600 V rated value 4 B 6 A 4 A 7 rated value 5 A 7 rated value 6 A 4 at 60 V rated value 6 A 4 at 60 V rated value 6 A 4 at 60 V rated value 7 A rated value 8 A 8 V rated value 9 A 8 A 7 rated value 1 A 7 rated value 1 A 8 V rated value 1 A 7 rated value 1 A 8 V rated value 1 A 9 A 8 V rated value 1 A 125 V rated value 1 A 125 V rated value 1 A 125 V rated value 1 A 126 V rated value 1 A 127 V rated value 1 A 128 V rated value 1 A 128 V rated value 1 A 129 V rated value 1 A 120 V rated value 1 A 14 S V rated value 1 A 15 V rated value 1 A 16 S V rated value 1 A 17 S V rated value 1 A 18 V rated value 1 A 19 S V		Constant of the
		1
instantaneous contact  number of NO contacts for auxillary contacts  altachable  instantaneous contact  operational current at AC-12 maximum  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 80 V rated value  at 125 V rated value  at 126 V rated value  at 126 V rated value  at 126 V rated value  at 127 V rated value  at 128 V rated value  at 129 V rated value  at 120 V rat	•	
number of NO contacts for auxiliary contacts  • attachable • instantaneous contact  operational current at AC-12 maximum  operational current at AC-12 maximum  operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 24 V rated value • at 24 V rated value • at 80 V rated value • at 110 V rated value • at 110 V rated value • at 120 V rated value • at 220 V rated value • at 800 V rated value • at 125 V rated value • at 800 V rated value • at		
• instantaneous contact		
• instantaneous contact   1   Operational current at AC-12 maximum   10 A	-	
operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 600 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 80 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 126 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 240 V rated value • at 250 V rated value • at 110 V rated value • at 1250 V rated value • at 1250 V rated value • at 250 V rated value		
e at 230 V rated value 6 A A A A A A A A A A A A A A A A A A		
e at 230 V rated value 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3		10 A
at 400 V rated value at 500 V rated value 2 A at 690 V rated value 1 A  operational current at DC-12  at 24 V rated value 5 A at 48 V rated value 6 A at 49 V rated value 6 A at 49 V rated value 6 A at 110 V rated value 8 A at 110 V rated value 9 A at 125 V rated value 9 A at 125 V rated value 9 A at 125 V rated value 9 A at 600 V rated value 10 A at 48 V rated value 11 A at 125 V rated value 12 A at 110 V rated value 13 A at 125 V rated value 14 A at 125 V rated value 15 V rated value 16 A 17 A 18	•	6 Δ
at 500 V rated value at 690 V rated value  tat 690 V rated value  at 44 V rated value  at 48 V rated value  at 48 V rated value  at 60 V rated value  at 110 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  be at 600 V rated value  be at 600 V rated value  at 148 V rated value  at 140 V rated value  at 150 V rated value  at 1600 V rated value  at 1600 V rated value  be 1600 V rated value  contact rating of auxiliary contacts  C characteristic 10 A; 0.4 kA  design of the miniature circuit breaker for short-circuit protection  design of the fuse link  for short-circuit protection of the main circuit with type of coordination 1 required with type of coordination 1 required with type of coordination 1 required with type of coordination 2 required with type of coordination 3 required with type of coordination 4 required with type of coordination 5 required with type of coordination 5 required with type of coordin		
operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 126 V rated value • at 600 V rated value • at 125 V rated value • at 148 V rated value • at 148 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 125 V rated value • at 126 V rated value • at 600 V rated val		
e at 24 V rated value e at 48 V rated value e at 48 V rated value e at 48 V rated value e at 110 V rated value e at 110 V rated value e at 22 V rated value e at 600 V rated value e at 600 V rated value e at 600 V rated value e at 24 V rated value e at 25 V rated value e at 110 V rated value e at 125 V rated value e at 20 V rated value e at 600 V rated value e at 25 V rated value e at 26 V rated value e at 27 V rated value e at 28 V rated value e at 29 V rated value e at 20 V rated value e at 20 V rated value e		
at 24 V rated value at 48 V rated value at 60 V rated value at 100 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 800 V rated value at 800 V rated value be at 800 V rated value at 800 V rated value at 800 V rated value be at 800 V rated value at 110 V rated value at 120 V rated value at 800 V rated value be at 800 V rated value at 800 V rated value at 800 V rated value be at 800 V rated value contact reliability of auxiliary contacts  T faulty switching per 100 million (17 V, 1 mA)  UL/CSA ratings  contact rating of auxiliary contacts  C C characteristic: 10 A; 0.4 kA   C C characteristic: 10 A; 0.4 kA  For short-circuit protection of the main circuit with type of coordination 1 required with type of coordination 1 required with type of coordination 2 required for short-circuit protection of the auxiliary switch requi		
<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 220 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 148 V rated value</li> <li>at 125 V rated value</li> <li>at 1600 V rated value</li> <li>at 600 V rated value</li> <li>at</li></ul>	•	10 Δ
at 10 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 200 V rated value at 600 V rated value beta 600 V rated value at 600 V rated value  operational current at DC-13  at 24 V rated value beta 8 V rated value at 100 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 125 V rated value beta 1220 V rated value at 220 V rated value at 600 V rated value at 600 V rated value beta 600 V rated value at 600 V rated value at 600 V rated value beta 7 V rated value at 600 V rated value beta 7 V rated value contact ratings  contact ratings  contact rating of auxiliary contacts  ### A600 / P600  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V  ### A600 / P600  C characteristic: 10 A; 0.4 kA  for short-circuit protection of the main circuit		
<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> Operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 48 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 25 V rated value</li> <li>at 25 V rated value</li> <li>at 26 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 600 V rated value</li> <li>be at 600 V rated value</li> <li>contact reliability of auxiliary contacts</li> <li>t faulty switching per 100 million (17 V, 1 mA)</li> </ul> UL/CSA ratings <ul> <li>contact rating of auxiliary contacts according to UL</li> <li>A600 / P600</li> </ul> Short-circuit protection <ul> <li>design of the miniature circuit breaker for short-circuit protection</li> <li>of the auxiliary circuit up to 230 V</li> </ul> design of the fuse link <ul> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 2 required</li> <li>gR: 250 A (690 V, 100 kA)</li> <li>for short-circuit protection of the auxiliary switch required</li> <li>gR: 250 A (690 V, 100 kA)</li> </ul> Installation/ mounting/ dimensions #/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; World forward and backward by +/- 22.5° on vertical mounting surface; For vertical mounting surface; World forward and backward by +/- 22.5° on vertical mounting surface		
at 125 V rated value at 220 V rated value at 600 V rated value  operational current at DC-13  at 24 V rated value at 48 V rated value at 48 V rated value at 10 A at 110 V rated value at 125 V rated value at 20 V rated value at 20 V rated value at 600 V rated value at 600 V rated value at 600 V rated value be at 200 V rated value at 600 V rated value contact reliability of auxiliary contacts  contact reliability of auxiliary contacts  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the ministure circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V  design of the fuse link after 50 A (690 V, 100 kA) with type of coordination 1 required with type of coordination 2 required for short-circuit protection of the auxiliary switch required for the 4/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by 4/- 22.5° on vertical mounting surface;		
at 220 V rated value at 600 V rated value  operational current at DC-13  at 24 V rated value  at 48 V rated value  at 48 V rated value  at 110 V rated value  at 125 V rated value  at 120 V rated value  at 220 V rated value  at 600 V rated value  at 600 V rated value  brace ontact reliability of auxiliary contacts  contact reliability of auxiliary contacts  to fact of auxiliary contacts  contact rating of auxiliary contacts according to UL  A600 / P600  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection  of the auxiliary circuit up to 230 V  design of the fuse link  for short-circuit protection of the main circuit		
• at 600 V rated value  operational current at DC-13  • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • Contact reliability of auxiliary contacts  UL/CSA ratings  contact rating of auxiliary contacts according to UL  A600 / P600  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V  design of the fuse link • for short-circuit protection of the main circuit  — with type of coordination 1 required — with type of coordination 2 required • for short-circuit protection of the auxiliary switch required of or short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions  wounting position  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface;		
operational current at DC-13  • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 260 V rated value • at 260 V rated value • at 600 V rated value • Contact reliability of auxiliary contacts		
<ul> <li>at 24 V rated value</li> <li>at 48 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 220 V rated value</li> <li>at 600 V rated value</li> <li>at 700 V rate 700</li></ul>		6.1671
<ul> <li>at 48 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> </ul> UL/CSA ratings <ul> <li>contact rating of auxiliary contacts according to UL</li> <li>A600 / P600</li> </ul> Short-circuit protection <ul> <li>design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V</li> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit</li> <li>— with type of coordination 1 required</li> <li>gG: 250 A (690 V, 100 kA)</li> <li>with type of coordination 2 required</li> <li>of ro short-circuit protection of the auxiliary switch required</li> <li>gG: 10 A (690 V, 1 kA)</li> </ul> Installation/ mounting/ dimensions #/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface	•	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>contact reliability of auxiliary contacts</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> </ul> ULCSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V design of the fuse link <ul> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>with type of coordination 2 required</li> <li>for short-circuit protection of the auxiliary switch required</li> <li>gG: 250 A (690 V, 100 kA)</li> <li>of or short-circuit protection of the auxiliary switch required</li> <li>gG: 10 A (690 V, 1 kA)</li> </ul> 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 on vertical mounting surface		
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</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>Contact rating of auxiliary contacts according to UL</li> <li>Short-circuit protection</li> <li>design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V</li> <li>C characteristic: 10 A; 0.4 kA</li> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>with type of coordination 2 required</li> <li>for short-circuit protection of the auxiliary switch required</li> <li>for short-circuit protection of the auxiliary switch required</li> <li>gG: 250 A (690 V, 100 kA)</li> <li>for short-circuit protection of the auxiliary switch required</li> <li>gG: 10 A (690 V, 1 kA)</li> <li>Installation/ mounting/ dimensions</li> <li>#/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface;</li> </ul>		
<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>contact rating of auxiliary contacts according to UL</li> <li>Short-circuit protection</li> <li>design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V</li> <li>design of the fuse link         <ul> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>with type of coordination 2 required</li> <li>for short-circuit protection of the auxiliary switch required</li> <li>for short-ci</li></ul></li></ul>		
ontact reliability of auxiliary contacts      I faulty switching per 100 million (17 V, 1 mA)  UL/CSA ratings  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V  design of the fuse link      of or short-circuit protection of the main circuit      — with type of coordination 1 required      — with type of coordination 2 required      of or short-circuit protection of the auxiliary switch required      of or short-circuit protection of the auxiliary switch required      of or short-circuit protection of the auxiliary switch required      of or short-circuit protection of the auxiliary switch required      of or short-circuit protection of the auxiliary switch required      of or short-circuit protection of the auxiliary switch required      of or short-circuit protection of the auxiliary switch required      of or short-circuit protection of the auxiliary switch required      of or short-circuit protection of the auxiliary switch required      of or short-circuit protection of the auxiliary switch required      of or short-circuit protection of the auxiliary switch required      of or short-circuit protection of the auxiliary switch required      of or short-circuit protection of the auxiliary switch required      of or short-circuit protection of the auxiliary switch required      of or short-circuit protection of the auxiliary switch required      of or short-circuit protection of the auxiliary switch required      of or short-circuit protection of the auxiliary switch required      of or short-circuit protection of the auxiliary switch required      of or short-circuit protection of the auxiliary switch required      of or short-circuit protection of the auxiliary switch required      of or short-circuit protection of the auxiliary switch required      of or short-circuit protection of the auxiliary switch required      of or short-circuit protection of the auxiliary swit		
contact reliability of auxiliary contacts  UL/CSA ratings  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of coordination 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circui		
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of coordination 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the main circuit  • gG: 250 A (690 V, 100 kA)  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the main circuit  • gG: 250 A (690 V, 100 kA)  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the main circuit  • for short-circuit protection of the main circuit  • with type of coordination 1 required  • gG: 250 A (690 V, 100 kA)  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the main circuit  • gG: 250 A (690 V, 100 kA)  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the main circuit		
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required — with type of coordination 2 required  • for short-circuit protection of the auxiliary switch required gR: 250 A (690 V, 100 kA)  • for short-circuit protection of the auxiliary switch required gG: 10 A (690 V, 1 kA)  Installation/ mounting/ dimensions  #/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface		
design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of coordination 2 required  • for short-circuit protection of the auxiliary switch required  gG: 250 A (690 V, 100 kA)  — with type of coordination 2 required  • for short-circuit protection of the auxiliary switch required  gG: 10 A (690 V, 100 kA)  Installation/ mounting/ dimensions  #/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface		A600 / P600
design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of coordination 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required		
design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required — with type of coordination 2 required • for short-circuit protection of the auxiliary switch required gG: 250 A (690 V, 100 kA)  • for short-circuit protection of the auxiliary switch required gG: 10 A (690 V, 100 kA)  • for short-circuit protection of the auxiliary switch required gG: 10 A (690 V, 1 kA)  Installation/ mounting/ dimensions  #/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface		C characteristic: 10 A; 0.4 kA
for short-circuit protection of the main circuit     — with type of coordination 1 required		
<ul> <li>— with type of coordination 1 required gG: 250 A (690 V, 100 kA)</li> <li>— with type of coordination 2 required gR: 250 A (690 V, 100 kA)</li> <li>• for short-circuit protection of the auxiliary switch required gG: 10 A (690 V, 1 kA)</li> <li>Installation/ mounting/ dimensions</li> <li>— with type of coordination 2 required gR: 250 A (690 V, 100 kA)</li> <li>— with type of coordination 2 required gR: 250 A (690 V, 100 kA)</li> <li>— with type of coordination 1 required gR: 250 A (690 V, 100 kA)</li> <li>— with type of coordination 1 required gR: 250 A (690 V, 100 kA)</li> <li>— with type of coordination 2 required gR: 250 A (690 V, 100 kA)</li> <li>— with type of coordination 2 required gR: 250 A (690 V, 100 kA)</li> <li>— with type of coordination 2 required gR: 250 A (690 V, 100 kA)</li> <li>— with type of coordination 2 required gR: 250 A (690 V, 100 kA)</li> <li>— with type of coordination 2 required gR: 250 A (690 V, 100 kA)</li> <li>— with type of coordination 2 required gR: 250 A (690 V, 100 kA)</li> <li>— with type of coordination 2 required gR: 250 A (690 V, 100 kA)</li> <li>— with type of coordination 2 required gR: 250 A (690 V, 100 kA)</li> <li>— with type of coordination 2 required gR: 250 A (690 V, 100 kA)</li> <li>— with type of coordination 2 required gR: 250 A (690 V, 100 kA)</li> <li>— with type of coordination 2 required gR: 250 A (690 V, 100 kA)</li> <li>— with type of coordination 2 required gR: 250 A (690 V, 100 kA)</li> <li>— with type of coordination 2 required gR: 250 A (690 V, 100 kA)</li> <li>— with type of coordination 2 required gR: 250 A (690 V, 100 kA)</li> <li>— with type of coordination 2 required gR: 250 A (690 V, 1 kA)</li> <li>— with type of coordination 2 required gR: 250 A (690 V, 1 kA)</li> <li>— with type of coordination 2 required gR: 250 A (690 V, 1 kA)</li> <li>— with type of coordination 2 required gR: 250 A (690 V, 1 kA)</li> <li>— with type of coord</li></ul>	design of the fuse link	
— with type of coordination 2 required gR: 250 A (690 V, 100 kA)  • for short-circuit protection of the auxiliary switch required gG: 10 A (690 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	• for short-circuit protection of the main circuit	
• for short-circuit protection of the auxiliary switch required gG: 10 A (690 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	<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 250 A (690 V, 100 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	— with type of coordination 2 required	gR: 250 A (690 V, 100 kA)
mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface	• for short-circuit protection of the auxiliary switch required	gG: 10 A (690 V, 1 kA)
backward by +/- 22.5° on vertical mounting surface	Installation/ mounting/ dimensions	
	mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and
tastening method side-by-side mounting  Yes		
	tastening method side-by-side mounting	Yes

fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	140 mm
width	96 mm
depth	152 mm
required spacing	102 11111
with side-by-side mounting	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded parts	O THILL
— forwards	20 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
for live parts	10 111111
— 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	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	
— stranded	2x (6 16 mm²), 2x (10 50 mm²), 1x (10 70 mm²)
— solid or stranded	2x (2.5 16 mm²), 2x (6 16 mm²), 2x (10 50 mm²), 1x (10 70 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (2.5 35 mm²), 1x (2.5 50 mm²)
for AWG cables for main contacts	2x (10 1/0), 1x (10 2/0)
connectable conductor cross-section for main contacts	
• solid	2.5 16 mm²
solid or stranded	4 70 mm²
• stranded	6 70 mm²
finely stranded with core end processing	2.5 50 mm²
connectable conductor cross-section for auxiliary contacts	
<ul> <li>solid or stranded</li> </ul>	0.5 2.5 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)
AWG number extended as coded connectable conductor cross section for main contacts	10 2/0
AWG number as coded connectable conductor cross	20 14
section for auxiliary contacts	
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
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
Communication/ Protocol	
product function bus communication	No
Approvals Certificates	
General Product Approval	
11	









<u>KC</u>



EMV

**Test Certificates** 

Maritime application



Type Test Certificates/Test Report

Special Test Certificate







Maritime application

other

Railway









Confirmation

Special Test Certificate

Dangerous goods

Environment

**Transport Information** 



Environmental Confirmations

## Further information

Information on the packaging

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

Information for data generation and storage

https://support.industry.siemens.com/cs/ww/en/view/109995012

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=3RT2346-1AF00

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2346-1AF00}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2346-1AF00

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

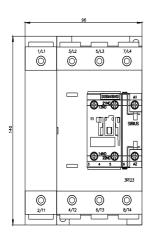
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2346-1AF00&lang=en

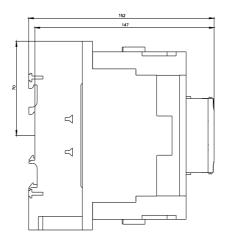
Characteristic: Tripping characteristics, I²t, Let-through current

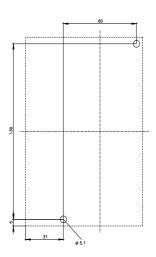
 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RT2346-1AF00/char}$ 

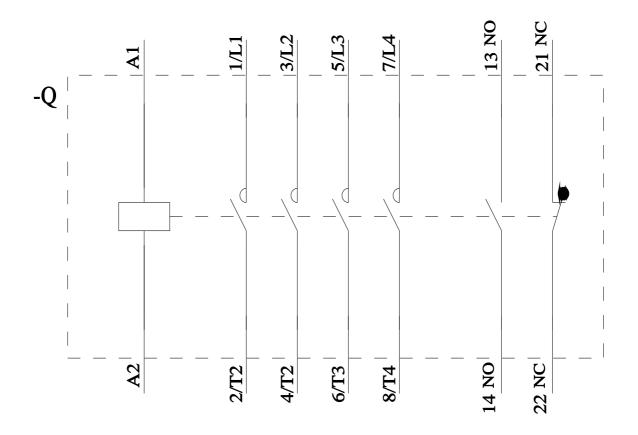
Further characteristics (e.g. electrical endurance, switching frequency)

 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RT2346-1AF00\&objecttype=14\&gridview=view1}$ 









last modified:

8/23/2025

3RT23461AF00 Page 7/7