SIEMENS

Data sheet 3RT2348-1AK60



contactor AC-1, 160 A, 400 V / 40 °C, 4-pole, 110 V AC, 50 Hz / 120 V, 60 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	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	61.6 W
 at AC in hot operating state per pole 	15.4 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of the auxiliary and control 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
shock resistance at rectangular impulse	
• at AC	6.7 g / 5 ms, 4.0 g / 10 ms
shock resistance with sine pulse	
• at AC	10.6 g / 5 ms, 6.3 g / 10 ms
mechanical service life (operating cycles)	
of contactor typical	10 000 000
of the contactor with added auxiliary switch block typical	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	09/01/2017
Weight	2.052 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
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

	470.1
global warming potential [CO2 eq] during operation	473 kg
global warming potential [CO2 eq] after end of life Main circuit	-1.54 kg
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	AU .
at AC-1 at 400 V at ambient temperature 40 °C rated	160 A
value	
• at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	160 A
— up to 690 V at ambient temperature 60 °C rated value	140 A
minimum cross-section in main circuit at maximum AC-1 rated value	35 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
 with 2 current paths in series at DC-1 	
— 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
 with 3 current paths in series at DC-1 	
— 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
at 1 current path at DC-3 at DC-5	22.4
— 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 — at 440 V rated value	1 A 0.15 A
at 440 V rated value with 2 current paths in series at DC-3 at DC-5	0.13 A
at 24 V rated value	80 A
— at 24 V rated value — 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
with 3 current paths in series at DC-3 at DC-5	
— 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	
• at 50 Hz rated value	110 V
at 60 Hz rated value	120 V

operating range factor control supply voltage rated value of magnet coil at AC		
### ### #### #########################		
### 160 Ftz		0.8 1.1
apparent pick-up power of magnet coil at AC at 50 Hz to 160 Hz to		
* a 16 O Hz		0.85 1.1
Inductive power factor with closing power of the coil		040.1/4
Inductive power factor with closing power of the coll at 36 Hz at 50 Hz at 50 Hz bit		
		296 VA
### ### ##############################		
apparent holding power of magnet coil at AC at 50 Hz at 60 Hz but 60 Hz at 60 Hz coin globley at AC opening delay at AC opening delay at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts attachable at		
■ 15 0 Hz		0.55
• at 60 Hz		05.1/4
Inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz • at 00 Hz • at AC 10 25 ms opening delay • at AC arcing time 10 20 ms control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instandameous confact • attachable • instandameous confact 1 number of NO contacts for auxiliary contacts • instandameous confact • attachable • instandameous confact • attachable • instandameous confact • attachable •		
■ at 50 Hz ■ at 60 Hz ■ at AC ■ 13 50 ms Opening delay ■ at AC ■ 10 21 ms ■ arding time ■ at AC ■ 10 21 ms ■ arding time ■ control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit number of NC contacts for auxiliary contacts ■ attachable ■ attachable ■ instantaneous contact ■ attachable ■ instantaneous contact ■ attachable ■ instantaneous contact ● attachable ■ instantaneous contact ● attachable ■ instantaneous contact ● attachable ■ instantaneous contact ○ attachable ■ instantaneous contact ○ attachable ■ attachable ■ instantaneous contact ○ attachable ■		18 VA
• at 80 Hz closing delay • at AC poining delay • at AC arcing time 10 20 ms control version of the switch operating mechanism Standard A1 - A2 Availlary circuit number of NC contacts for auxilliary contacts • standanable • instantaneous contact • standanable • instantaneous con		0.05
closing delay		
		0.41
opening delay		40 -0
## at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact		13 5U MS
arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts		40 04
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts		
Auxiliary circuit number of NC contacts for auxiliary contacts		
number of NC contacts for auxiliary contacts attachable attachable all all all all all all all all all al		Standard A1 - A2
e instantaneous contact	-	
number of NO contacts for auxiliary contacts	attachable	
• attachable • 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 400 V rated value • 1 A operational current at DC-12 • at 24 V rated value • at 48 V rated value • 6 A • at 110 V rated value • 6 A • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 200 V rated value • at 600 V rated value • at 600 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 110 V rated value • at 120 V rated value • at 110 V rated value • at 120 V rated value • at 600 V rated value •		
instantaneous contact 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 600 V rated value • at 24 V rated value • at 80 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 22 V rated value • at 24 V rated value • at 600 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 120 V rated value • at 600 V rated value • at 6	-	
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 44 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 220 V rated value • at 220 V rated value • at 3A • at 255 V rated value • at 600 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 120 V rated value • at 120 V rated value • at 120 V rated value • at 130 V rated value • at 148 V rated value • at 110 V rated value • at 110 V rated value • at 120 V rated value • at 600 V rated value • at 120 V rated value • at 120 V rated value • at 120 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated va	• attachable	
operational current at AC-15 at 230 V rated value at 500 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 1 0 A at 48 V rated value 6 A at 60 V rated value 6 A at 60 V rated value 6 A at 110 V rated value 6 A at 110 V rated value 7 A at 125 V rated value 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A		
at 230 V rated value at 400 V rated value at 500 V rated value at 500 V rated value at 500 V rated value at 600 V rated value at 600 V rated value at 24 V rated value at 60 V rated value at 60 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 600 V rated value at 600 V rated value at 120 V rated value at 120 V rated value at 600 V rated value at 800 V rated value at 800 V rated value at 100 V rated value at 120 V rated value at 220 V rated value at 220 V rated value at 120 V rated value at 125 V rated value at 125 V rated value at 125 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 110 V rated value at 110 V rated value at 110 V rated value at 126 V rated value at 127 V rated value at 128 V rated value at 128 V rated value at 129 V rated value at 120 V rated value at 600 V rated value contact rating of auxiliary contacts UL/CSA ratings contact rating of auxiliary contacts C characteristic: 10 A; 0.4 kA of the auxiliary circuit up to 230 V design of the fuse link • for short-circuit protection fine auxiliary circuit up to 230 V design of of coordination 1 required - with type of assignment 2 required gG: 250 A (690 V, 100 kA) - with type of assignment 2 required gR: 250 A (690 V, 100 kA)	·	10 A
at 400 V rated value at 500 V rated value at 690 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 110 V rated value 2 A at 110 V rated value 3 A at 125 V rated value 1 A at 220 V rated value 3 A at 220 V rated value 1 A at 280 V rated value 2 A at 280 V rated value 1 A at 600 V rated value 1 A at 600 V rated value 2 A at 250 V rated value 2 A at 20 V rated value 3 A at 600 V rated value 1 A at 600 V rated value 2 A at 110 V rated value 2 A at 110 V rated value 3 A at 125 V rated value 3 A at 110 V rated value 3 A at 110 V rated value 3 A at 110 V rated value 1 A at 125 V rated value 3 A at 120 V rated value 3 A at 100 V rated value 5 A at 200 V rated value 5 A at 100 V rated value 5 A at 200 V rated value 5 A at 200 V rated value 6 A at 200 V rated value 7 A at 200 V rated value 8 A at 200 V rated value 9 A	·	
at 500 V rated value at 680 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 60 V rated value 6 A at 110 V rated value 3 A at 125 V rated value 1 A at 220 V rated value 1 A operational current at DC-13 at 220 V rated value 1 A at 48 V rated value 1 A at 48 V rated value 1 A operational current at DC-13 at 24 V rated value 1 A at 48 V rated value 1 A at 48 V rated value 1 A at 48 V rated value 1 A at 110 V rated value 1 A at 110 V rated value 1 A at 125 V rated value 1 A at 145 V rated value 1 A at 1600 V rated value 1 A at 110 V rated value 1 A 6 A 4 A V rated value 1 A 6 A 6 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A	at 230 V rated value	
at 690 V rated value be at 24 V rated value at 48 V rated value at 60 V rated value at 10 V rated value at 10 V rated value at 125 V rated value at 220 V rated value at 600 V rated value be at 220 V rated value at 600 V rated value at 600 V rated value at 600 V rated value be at 24 V rated value at 25 V rated value at 24 V rated value be at 25 V rated value at 25 V rated value at 26 V rated value at 27 V rated value at 28 V rated value at 29 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 600 V rated value contact reliability of auxiliary contacts the faulty switching per 100 million (17 V, 1 mA) 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 miniature circuit breaker for short-circuit protection of the auxiliary circuit protection of the main circuit — with type of coordination 1 required with type of coordination 1 required gG: 250 A (690 V, 100 kA) gR: 250 A (690 V, 100 kA)		
operational current at DC-12 • 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 220 V rated value • at 600 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 28 V rated value • at 29 V rated value • at 29 V rated value • at 20 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 20 V rated value • at 200 V rated value • at 200 V rated value • at 600 V rated value •		
at 24 V rated value at 48 V rated value at 48 V rated value at 6 A 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 220 V rated value at 48 V rated value at 48 V rated value at 48 V rated value at 48 V rated value at 110 V rated value at 125 V rated value at 200 V rated value contact rating of auxiliary contacts T 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 for short-circuit protection of the main circuit — with type of coordination 1 required gG: 250 A (690 V, 100 kA) with type of assignment 2 required gR: 250 A (690 V, 100 kA)	at 690 V rated value	1 A
at 48 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 600 V rated value at 600 V rated value be at 600 V rated value at 600 V rated value at 600 V rated value be at 600 V rated value at 24 V rated value be at 48 V rated value at 24 V rated value at 10 V rated value at 10 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 600 V rated value be at 600 V rated value 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 protection of the miniature circuit protection of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required gG: 250 A (690 V, 100 kA) gR: 250 A (690 V, 100 kA) gR: 250 A (690 V, 100 kA)	operational current at DC-12	
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 600 V rated value at 24 V rated value at 24 V rated value at 10 A 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 at	at 24 V rated value	
at 110 V rated value at 125 V rated value 1 A at 220 V rated value 1 A 0.15 A operational current at DC-13 at 24 V rated value 1 D A at 48 V rated value 2 A at 110 V rated value 1 D A at 48 V rated value 2 A at 110 V rated value 3 A at 220 V rated value 1 D A at 125 V rated value 2 A at 110 V rated value 3 A at 220 V rated value 3 A at 220 V rated value 3 A at 600 V rated value 4 A 5 A 5 A 5 Contact reliability of auxiliary contacts 5 A 5 Contact rating of auxiliary contacts 5 A 5 Contact rating of auxiliary contacts 5 Contact rating of auxiliary contacts according to UL 5 Contact rating of auxiliary contacts 6 C C characteristic: 10 A; 0.4 kA C C characteristic: 10 A; 0.4 kA design of the fuse link 6 for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required 9 G: 250 A (690 V, 100 kA) GR: 250 A (690 V, 100 kA) GR: 250 A (690 V, 100 kA) GR: 250 A (690 V, 100 kA)	• at 48 V rated value	6 A
at 125 V rated value at 220 V rated value 1 A out 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 110 V rated value 1 A at 125 V rated value 2 A at 110 V rated value 3 A at 220 V rated value 3 A at 220 V rated value 4 A at 125 V rated value 5 A at 220 V rated value 5 A at 220 V rated value 7 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6	at 60 V rated value	6 A
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 110 V rated value at 125 V rated value at 125 V rated value 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 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts the faulty switching per 100 million (17 V, 1 mA) 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 at 600 V rated value C characteristic: 10 A; 0.4 kA at 600 V, 100 kA) with type of coordination 1 required with type of assignment 2 required gR: 250 A (690 V, 100 kA) gR: 250 A (690 V, 100 kA)	• at 125 V rated value	
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 220 V rated value • at 220 V rated value • at 600 V rated	• at 220 V rated value	
 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 220 V rated value at 600 V rated value at faulty switching per 100 million (17 V, 1 mA) 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 gG: 250 A (690 V, 100 kA) with type of assignment 2 required gR: 250 A (690 V, 100 kA) 		0.15 A
 at 48 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 15 V rated value at 600 V rated value b 1 faulty switching per 100 million (17 V, 1 mA) at 600 V P600 b 1 Faulty switching per 100 million (17 V, 1 mA) b 600 V P600 c 1 C C characteristic: 10 A; 0.4 kA at 600 V Read V Read	operational current at DC-13	
 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value <	• at 24 V rated value	
 at 125 V rated value at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts 1 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 for short-circuit protection of the main circuit with type of coordination 1 required gG: 250 A (690 V, 100 kA) with type of assignment 2 required 0.9 A 0.9 V, 100 kA 0.9 V, 100 kA 	• at 48 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) 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 gG: 250 A (690 V, 100 kA) with type of assignment 2 required gR: 250 A (690 V, 100 kA) 	• 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) 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 gG: 250 A (690 V, 100 kA) — with type of assignment 2 required gR: 250 A (690 V, 100 kA)	• at 125 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 gG: 250 A (690 V, 100 kA) with type of assignment 2 required gR: 250 A (690 V, 100 kA)	• at 220 V rated value	0.3 A
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 assignment 2 required GA600 / P600 C characteristic: 10 A; 0.4 kA C characteristic: 10 A; 0.4 kA G characteristic: 10 A; 0.4 kA C characteristic: 10 A; 0.4 kA G characteristic: 10 A; 0.4 kA G characteristic: 10 A; 0.4 kA	at 600 V rated value	0.1 A
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 assignment 2 required A600 / P600 C characteristic: 10 A; 0.4 kA gG: 250 A (690 V, 100 kA)	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
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 assignment 2 required G c characteristic: 10 A; 0.4 kA C characteristic: 10 A; 0.4 kA G c characteristic: 10 A; 0.4 kA	UL/CSA ratings	
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 assignment 2 required gR: 250 A (690 V, 100 kA) gR: 250 A (690 V, 100 kA)	contact rating of auxiliary contacts according to UL	A600 / P600
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 gG: 250 A (690 V, 100 kA) — with type of assignment 2 required gR: 250 A (690 V, 100 kA)	Short-circuit protection	
 for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required gG: 250 A (690 V, 100 kA) gR: 250 A (690 V, 100 kA) 		C characteristic: 10 A; 0.4 kA
 — with type of coordination 1 required — with type of assignment 2 required gG: 250 A (690 V, 100 kA) gR: 250 A (690 V, 100 kA) 	design of the fuse link	
— with type of assignment 2 required gR: 250 A (690 V, 100 kA)	 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 gG: 10 A (690 V, 1 kA)	— with type of assignment 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)

nstallation/ 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 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	
with side-by-side mounting	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded parts	
— forwards	20 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
	IV IIIII
for live parts forwards	20 mm
— forwards	
— 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
at contactor for auxiliary contacts	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)
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
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	
solid or stranded	0.5 2.5 mm²
finely stranded with core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	
— 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)
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross section	(
for main contacts	10 2
for auxiliary contacts	20 14
afety related data	
product function	Yes
product function ● mirror contact according to IEC 60947-4-1	Yes
product function mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1	Yes No
product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 Electrical Safety	No
product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 Electrical Safety protection class IP on the front according to IEC 60529	No IP20
product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 Electrical Safety	No

Approvals Certificates

General Product Approval

EMV













Test Certificates

Marine / Shipping

Type Test Certificates/Test Report











other

Railway

Dangerous goods

Environment

Confirmation

Special Test Certificate

Transport Information

EPD

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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2348-1AK60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2348-1AK60

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2348-1AK60

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

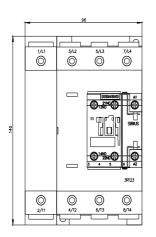
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2348-1AK60&lang=en

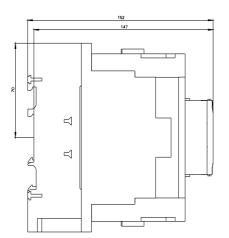
Characteristic: Tripping characteristics, I²t, Let-through current

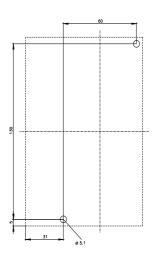
 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RT2348-1AK60/char}$

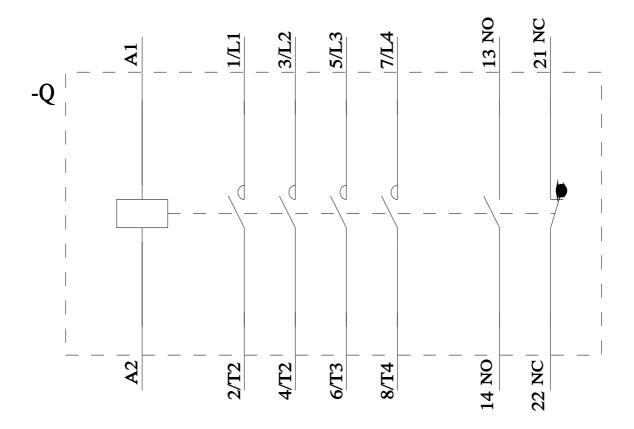
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2348-1AK60&objecttype=14&gridview=view1









last modified:

4/11/2025

