SIEMENS

Data sheet

3RT1056-7AB36-0SF1



power contactor, AC-3e/AC-3 185 A, 90 kW / 400 V AC (50-60 Hz) / DC Uc: 23-26 V 3-pole, auxiliary contacts 2 NO + 2 NC drive: conventional main circuit: box terminal control and auxiliary circuit: screw terminal box terminal up to 70 $\,\mathrm{mm^2}$

Figure similar

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S6
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 	39 W
 at AC in hot operating state per pole 	13 W
without load current share typical	5.2 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
of auxiliary circuit with degree of pollution 3 rated value	500 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	8,5g / 5 ms, 4,2g / 10 ms
• at DC	8,5g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	13,4g / 5 ms, 6,5g / 10 ms
• at DC	13,4g / 5 ms, 6,5g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	10 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	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)	05/01/2012
SVHC substance name	Blei - 7439-92-1
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	95 %
maximum	
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
 at AC-3 rated value maximum 	1 000 V
at AC-3e rated value maximum	1 000 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	215 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	215 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	185 A
— up to 1000 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	100 A
 up to 1000 V at ambient temperature 60 °C rated value at AC-3 	100 A
— at 400 V rated value	185 A
— at 500 V rated value	185 A
— at 690 V rated value	170 A
— at 1000 V rated value	65 A
• at AC-3e	
— at 400 V rated value	185 A
— at 500 V rated value	185 A
— at 690 V rated value	170 A
— at 1000 V rated value	65 A
at AC-4 at 400 V rated value	160 A
at AC-5a up to 690 V rated value	189 A
at AC-5b up to 400 V rated value	153 A
• at AC-6a	100 //
— up to 230 V for current peak value n=20 rated value	157 A
— up to 400 V for current peak value n=20 rated value	157 A
— up to 500 V for current peak value n=20 rated value	157 A
— up to 690 V for current peak value n=20 rated value	157 A
up to 1000 V for current peak value n=20 rated value value	65 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	105 A
— up to 400 V for current peak value n=30 rated value	105 A
— up to 500 V for current peak value n=30 rated value	105 A
— up to 690 V for current peak value n=30 rated value	105 A
up to 1000 V for current peak value n=30 rated value	65 A
minimum cross-section in main circuit at maximum AC-1 rated value	95 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	81 A
at 690 V rated value	65 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	160 A
— at 110 V rated value	18 A
— at 220 V rated value	3.4 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.5 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	20 A

— at 440 V rated value	3.2 A
— at 600 V rated value	1.6 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 A
— at 440 V rated value	11.5 A
— at 600 V rated value	4 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	160 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.17 A
— at 600 V rated value	0.12 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	2.5 A
— at 440 V rated value	0.65 A
— at 600 V rated value	0.37 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
at AC-2 at 400 V rated value	90 kW
• at AC-3	
— at 230 V rated value	55 kW
— at 400 V rated value	90 kW
— at 500 V rated value	132 kW
— at 690 V rated value	160 kW
— at 1000 V rated value	90 kW
• at AC-3e	
— at 230 V rated value	55 kW
— at 400 V rated value	90 kW
— at 500 V rated value	132 kW
— at 690 V rated value	160 kW
— at 1000 V rated value	90 kW
operating power for approx. 200000 operating cycles at AC-	33 NV
4	
 at 400 V rated value 	45 kW
 at 690 V rated value 	65 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	60 000 kVA
• up to 400 V for current peak value n=20 rated value	100 000 VA
• up to 500 V for current peak value n=20 rated value	130 000 VA
• up to 690 V for current peak value n=20 rated value	180 000 VA
• up to 1000 V for current peak value n=20 rated value	110 000 VA
operating apparent power at AC-6a	
up to 230 V for current peak value n=30 rated value	40 000 VA
• up to 400 V for current peak value n=30 rated value	70 000 VA
• up to 500 V for current peak value n=30 rated value	90 000 VA
• up to 690 V for current peak value n=30 rated value	120 000 VA
• up to 1000 V for current peak value n=30 rated value	110 000 VA
short-time withstand current in cold operating state up to 40 °C	
limited to 1 s switching at zero current maximum	2 900 A; Use minimum cross-section acc. to AC-1 rated value
limited to 5 s switching at zero current maximum	2 084 A; Use minimum cross-section acc. to AC-1 rated value
limited to 10 s switching at zero current maximum	1 480 A; Use minimum cross-section acc. to AC-1 rated value
limited to 30 s switching at zero current maximum	968 A; Use minimum cross-section acc. to AC-1 rated value

no-load switching frequency ■ at AC ■ at DC ■ at DC ■ at AC 2 maximum ■ at AC 2 maximum ■ at AC 2 maximum ■ at AC 3 max	 limited to 60 s switching at zero current maximum 	801 A; Use minimum cross-section acc. to AC-1 rated value
a st DC	•	55, 550 minimum sisses section acc. to No 1 rated value
		2 000 1/h
■ AT AC 1 maximum		
at AC-1 maximum 300 1/h 100 1/		2 000 1111
a th AC-2 maximum		800 1/h
** ALC-3 maximum		
a dt AC-3e maximum		
ALA-C-4 maximum 130 1/h		
Type of voltage of the control supply voltage ACIDC at 50 Hz rated value 23 26 V operating range factor control supply voltage at DC inflial value 0.8		
type of voltage of the control supply voltage at AC		100 1/11
control supply voltage at AC 2326 V at 50 Hz rated value 2326 V control supply voltage at DC 2326 V e rated value 2326 V Operating range factor control supply voltage rated value of magnet coll at DC 0.8 initial value 0.8 initial value 1.1 operating range factor control supply voltage rated value of magnet coll at AC 1.1 in 450 Hz 0.81.1 el sign of the surge suppressor with varistor apparent pick-up power 4 minimum rated control supply voltage at AC — at 50 Hz 250 VA — at 60 Hz 300 VA — at 60 Hz 300 VA — at 60 Hz 300 VA — at 50 Hz 300 VA — at 50 Hz 0.9 a parent pick-up power of magnet coil at AC 4.1 — at 50 Hz 0.9 — at 50 Hz 0.9 — at 50 Hz 4.8 VA — at 50 Hz 4.8 VA — at 50 Hz 5.8 VA — at 50 Hz 5.8 VA — at 60 Hz <t< td=""><td></td><td>AC/DC</td></t<>		AC/DC
e al 60 Hz rated value 23 26 V control supply voltage at DC 23 26 V e rated value 23 26 V parted value 23 26 V e rated value 0.8 fulfill value 0.8 fulfill value 0.8 e fulfill value 0.8 e value 0.8 1.1 e at 50 Hz 250 VA e at maximum rated control supply voltage at AC 250 VA e at 50 Hz 300 VA e at 50 Hz 300 VA e parent pick-up power of magnet coil at AC 300 VA e at 60 Hz 0.9 e at 60 Hz 4.3 VA e at 60 Hz 4.8 VA e at maximum rated control supply voltage at DC 4.8 VA e at 60 Hz		Noise
• at 60 Hz rated value		23 26 V
Part of value Part of val		
• rated value 23 26 V oporating range factor control supply voltage rated value of magnet coil at DC 1 • full-cacle value 1.1 operating range factor control supply voltage rated value of magnet coil at 150 Hz 0.8 1.1 • at 150 Hz 0.8 1.1 design of the surge suppressor with variator a paparent pick-up power at minimum rated control supply voltage at AC — at 50 Hz 250 VA — at 50 Hz 300 VA — at 50 Hz 300 VA — at 50 Hz 300 VA a paparent pick-up power of magnet coil at AC 300 VA • at 50 Hz 300 VA — at 50 Hz 300 VA • at 50 Hz 300 VA • at 50 Hz 0.9 • at 60 Hz 0.9 • at 60 Hz 4.3 VA • at maximum rated control supply voltage at DC 4.3 VA • at maximum rated control supply voltage at AC 4.8 VA • at 80 Hz 5.8 VA		20 20 V
Sperating range factor control supply voltage rated value of lat IDC Section 1997 Section		23 26 V
• initial value • full-scale value operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz • at 6	operating range factor control supply voltage rated value of	20 20 V
Operating range factor control supply voltage rated value of magnet coil at AC		0.8
Operating range factor control supply voltage rated value of magnet coil at AC		
• at 50 Hz • at 60 Hz obsign of the surge suppressor apparent pick-up power • at minimum rated control supply voltage at AC — at 60 Hz — at 50 Hz • at maximum rated control supply voltage at AC — at 60 Hz • at maximum rated control supply voltage at AC — at 60 Hz • at 50 Hz • at 60 Hz • at maximum rated control supply voltage at DC • at maximum rated control supply voltage at DC • at maximum rated control supply voltage at DC • at maximum rated control supply voltage at DC • at maximum rated control supply voltage at AC — at 50 Hz • at at maximum rated control supply voltage at AC — at 50 Hz • at at an aximum rated control supply voltage at AC — at 50 Hz • at 60 Hz apparent holding power • at minimum rated control supply voltage at AC — at 50 Hz • at 60 Hz apparent holding power of magnet coll at AC • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz apparent holding power of magnet coll at AC • at 50 Hz • at 60 Hz	operating range factor control supply voltage rated value of	
design of the surge suppressor with varistor apparent pick-up power - at minimum rated control supply voltage at AC - at 60 Hz 250 VA	● at 50 Hz	0.8 1.1
### ### ### ### ### ### ### ### ### ##	● at 60 Hz	0.8 1.1
• at minimum rated control supply voltage at AC — at 50 Hz — at 60 Hz • at maximum rated control supply voltage at AC — at 50 Hz — at 50 Hz — at 50 Hz — at 50 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz • at maximum rated control supply voltage at DC • at maximum rated control supply voltage at DC • at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz • at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz • at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz • at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz • at 60 Hz	design of the surge suppressor	with varistor
- at 50 Hz	apparent pick-up power	
→ at 60 Hz	• at minimum rated control supply voltage at AC	
• at maximum rated control supply voltage at AC — at 50 Hz	— at 50 Hz	250 VA
at 50 Hz 300 VA 300	— at 60 Hz	250 VA
— at 50 Hz 300 VA apparent pick-up power of magnet coil at AC 300 VA at 80 Hz 300 VA inductive power factor with closing power of the coil at 50 Hz 0.9 at 80 Hz 0.9 at 80 Hz 0.9 apparent holding power at minimum rated control supply voltage at DC 4.3 VA at maximum rated control supply voltage at DC 5.2 VA apparent holding power at minimum rated control supply voltage at AC at 50 Hz 4.8 VA at 60 Hz 4.8 VA at maximum rated control supply voltage at AC at 50 Hz 5.8 VA at maximum rated control supply voltage at AC at 50 Hz 5.8 VA apparent holding power of magnet coil at AC at 50 Hz 5.8 VA at 60 Hz 5.8 VA at 60 Hz 0.8 at 60 Hz 0	 at maximum rated control supply voltage at AC 	
apparent pick-up power of magnet coil at AC	— at 60 Hz	300 VA
• at 50 Hz 300 VA 300 V	— at 50 Hz	300 VA
• at 60 Hz 300 VA inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz 0.9 • at minimum rated control supply voltage at DC • at maximum rated control supply voltage at DC • at minimum rated control supply voltage at DC • at minimum rated control supply voltage at DC • at minimum rated control supply voltage at AC — at 50 Hz — at 60 Hz • at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz • at mover of magnet coil at AC • at 50 Hz • at 60 Hz • at 50 Hz • at 60 Hz • at 60 Hz • at 50 Hz • at 60 Hz • at	apparent pick-up power of magnet coil at AC	
inductive power factor with closing power of the coil at \$50 Hz at \$60 Hz apparent holding power at minimum rated control supply voltage at DC at maximum rated control supply voltage at DC at maximum rated control supply voltage at DC at maximum rated control supply voltage at AC at 50 Hz at 60 Hz at maximum rated control supply voltage at AC at 50 Hz at 60 Hz 5.8 VA at 60 Hz 5.8 VA apparent holding power of magnet coil at AC at 50 Hz at 60 Hz 5.8 VA apparent holding power of magnet coil at AC at 50 Hz at 60 Hz 5.8 VA cat 60 Hz 5.8 VA cat 60 Hz 5.8 VA cat 60 Hz 6.8 VA cat 60 Hz cat 50 Hz at 50 Hz at 60 Hz 5.8 VA cat 60 Hz 5.8 VA closing power of magnet coil at DC closing power of magnet coil at DC closing delay at DC at DC 20 95 ms	● at 50 Hz	300 VA
● at 50 Hz ● at 60 Hz apparent holding power ● at minimum rated control supply voltage at DC ● at maximum rated control supply voltage at DC ■ at minimum rated control supply voltage at AC — at 50 Hz — at 60 Hz — at 50 Hz — at 50 Hz — at 50 Hz — at 50 Hz — at 50 Hz — at 50 Hz — at 50 Hz — at 50 Hz — at 50 Hz — at 50 Hz — at 50 Hz — at 50 Hz — at 60 Hz S.8 VA apparent holding power of magnet coil at AC ■ at 50 Hz ■ at 60 Hz ■ at 60 Hz ■ at 60 Hz ■ at 60 Hz ■ at 60 Hz ■ at 60 Hz ■ at 60 Hz ■ at 60 Hz ■ at 50 Hz ■ at 60 Hz ■	● at 60 Hz	300 VA
apparent holding power at minimum rated control supply voltage at DC at maximum rated control supply voltage at DC at maximum rated control supply voltage at DC at minimum rated control supply voltage at AC at minimum rated control supply voltage at AC at 50 Hz at maximum rated control supply voltage at AC at 50 Hz at maximum rated control supply voltage at AC at 50 Hz at 60 Hz 5.8 VA at 60 Hz bilding power of magnet coil at AC at 50 Hz at 60 Hz 0.8 closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC at DC 20 95 ms 20 95 ms	inductive power factor with closing power of the coil	
apparent holding power • at minimum rated control supply voltage at DC • at maximum rated control supply voltage at DC apparent holding power • at minimum rated control supply voltage at AC — at 50 Hz — at 60 Hz • at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz 5.8 VA apparent holding power of magnet coil at AC • at 50 Hz • at 50 Hz • at 60 Hz • at 50 Hz • at 60 Hz 10.8 closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC • at DC 20 95 ms 4.3 VA 4.3 VA 4.3 VA 4.8 VA 4.	● at 50 Hz	0.9
at minimum rated control supply voltage at DC at maximum rated control supply voltage at DC apparent holding power at minimum rated control supply voltage at AC — at 50 Hz — at 60 Hz at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz — at 50 Hz — at 60 Hz — at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz 5.8 VA apparent holding power of magnet coil at AC at 50 Hz at 60 Hz ballower factor with the holding power of the coil at 50 Hz at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay at AC at DC at DC at DC at DC 4.3 VA 4.8 VA 4.	● at 60 Hz	0.9
at maximum rated control supply voltage at DC apparent holding power at minimum rated control supply voltage at AC — at 50 Hz — at 60 Hz — at 50 Hz — at 50 Hz — at 50 Hz — at 60 Hz — at 60 Hz — at 60 Hz apparent holding power of magnet coil at AC at 50 Hz — at 60 Hz 5.8 VA apparent holding power of magnet coil at AC at 50 Hz at 50 Hz at 50 Hz at 60 Hz ballong power of the coil at 50 Hz at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC bolding power of magnet coil at DC closing delay at AC at DC at DC at DC at DC at DC at Maximum rated control supply voltage at AC 4.8 VA 5.8 VA 5.8 VA 5.8 VA 5.8 VA 5.8 VA 6.8 VA 6.8 6.8 6.0 VA bolding power of magnet coil at DC 5.2 W closing delay at AC at	apparent holding power	
a at minimum rated control supply voltage at AC 4.8 VA — at 50 Hz 4.8 VA — at 60 Hz 4.8 VA • at maximum rated control supply voltage at AC — at 50 Hz — at 50 Hz 5.8 VA — at 60 Hz 5.8 VA apparent holding power of magnet coil at AC • at 50 Hz • at 50 Hz 5.8 VA • at 60 Hz 5.8 VA inductive power factor with the holding power of the coil • at 50 Hz • at 50 Hz 0.8 • at 60 Hz 0.8 closing power of magnet coil at DC 360 W holding power of magnet coil at DC 5.2 W closing delay • at AC 20 95 ms • at DC 20 95 ms		4.3 VA
■ at minimum rated control supply voltage at AC — at 50 Hz — at 60 Hz ■ at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz ■ at 60 Hz 3.8 VA apparent holding power of magnet coil at AC ● at 50 Hz ● at 60 Hz 5.8 VA inductive power factor with the holding power of the coil ● at 50 Hz ● at 60 Hz Closing power of magnet coil at DC holding power of magnet coil at DC closing delay ● at AC ● at DC ○ at 50 Mz ○ at DC ○ at 50 W	at maximum rated control supply voltage at DC	5.2 VA
- at 50 Hz - at 60 Hz 4.8 VA • at maximum rated control supply voltage at AC - at 50 Hz - at 60 Hz 5.8 VA apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz 5.8 VA at 60 Hz 5.8 VA inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz 10.8 closing power of magnet coil at DC holding power of magnet coil at DC 5.2 W closing delay • at AC • at CC • at 50 Hz • at DC • at 50 Hz • at DC • at DC • at 50 Hz • at DC		
- at 60 Hz	 at minimum rated control supply voltage at AC 	
at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz 5.8 VA 5.8 VA at 60 Hz 5.8 VA inductive power factor with the holding power of the coil at 50 Hz at 60 Hz 0.8 closing power of magnet coil at DC holding power of magnet coil at DC closing delay at AC at DC 20 95 ms 20 95 ms		
at 50 Hz at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz • at 60 Hz • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz • at 60 Hz Closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC 5.8 VA 5.8 VA 0.8 0.8 0.8 0.8 20 95 ms • at DC		4.8 VA
— at 60 Hz 5.8 VA apparent holding power of magnet coil at AC 5.8 VA • at 50 Hz 5.8 VA • at 60 Hz 5.8 VA inductive power factor with the holding power of the coil 0.8 • at 50 Hz 0.8 • at 60 Hz 0.8 closing power of magnet coil at DC 360 W holding power of magnet coil at DC 5.2 W closing delay • at AC 20 95 ms • at DC 20 95 ms		
apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz 0.8 closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC 20 95 ms	— at 50 Hz	5.8 VA
● at 50 Hz ● at 60 Hz inductive power factor with the holding power of the coil ● at 50 Hz ● at 50 Hz ● at 60 Hz Closing power of magnet coil at DC holding power of magnet coil at DC closing delay ● at AC ● at DC 5.8 VA 5.8 VA 5.8 VA 5.8 VA 5.8 VA 5.8 VA 6.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	— at 60 Hz	5.8 VA
● at 60 Hz inductive power factor with the holding power of the coil ● at 50 Hz ● at 60 Hz O.8 closing power of magnet coil at DC holding power of magnet coil at DC closing delay ● at AC ● at DC 20 95 ms 20 95 ms		
inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC at DC 20 95 ms • at DC		
• at 50 Hz • at 60 Hz • at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC • at DC 0.8 0.8 0.8 0.8 360 W 5.2 W closing delay • at DC 20 95 ms		5.8 VA
● at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC 5.2 W closing delay ● at AC ● at DC 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.		
closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC at DC at DC 360 W 5.2 W 20 95 ms 20 95 ms		
holding power of magnet coil at DC closing delay at AC at DC 20 95 ms 20 95 ms		
closing delay 20 95 ms ● at DC 20 95 ms 20 95 ms		
 at AC at DC 20 95 ms 20 95 ms 		5.2 W
• at DC 20 95 ms		
	• at AC	
opening delay	• at DC	20 95 ms
	opening delay	

a at AC	40 60 mg
• at AC	40 60 ms 40 60 ms
• at DC	40 60 ms 10 15 ms
arcing time control version of the switch operating mechanism	10 15 ms Standard A1 - A2
Auxiliary circuit	Standard / 11 / 12
number of NC contacts for auxiliary contacts instantaneous contact	2
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	6 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
• 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 60 V rated value	6 A
• at 110 V rated value	3 A
• at 125 V rated value	2 A
• at 220 V rated value	1 A
at 600 V rated value	0.15 A
operational current at DC-13	
• at 24 V rated value	10 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
• at 125 V rated value	0.9 A
• at 220 V rated value	0.3 A
• at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	400.4
• at 480 V rated value	180 A
• at 600 V rated value	192 A
yielded mechanical performance [hp]	
• for single-phase AC motor	20 ha
— at 230 V rated value	30 hp
• for 3-phase AC motor	60 hp
— at 200/208 V rated value	60 hp
— at 220/230 V rated value	75 hp
— at 460/480 V rated value	150 hp
— at 575/600 V rated value	200 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link • for short-circuit protection of the main circuit	
for short-circuit protection of the main circuit with type of coordination 1 required.	aG: 355 A (690 V 100 kA)
— with type of coordination 1 required— with type of assignment 2 required	gG: 355 A (690 V, 100 kA) gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA)
for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
side-by-side mounting	Yes
height	172 mm
width	120 mm
depth	170 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
 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	box terminal
 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	
• stranded	max. 1x 50, 1x 70 mm ²
 solid or stranded 	max. 1x 50, 1x 70 mm ²
 finely stranded with core end processing 	max. 1x 50, 1x 70 mm ²
finely stranded without core end processing	max. 1x 50, 1x 70 mm ²
connectable conductor cross-section for main contacts	·
• stranded	16 70 mm²
 finely stranded with core end processing 	70 240 mm²
finely stranded without core end processing	70 240 mm²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.25 2.5 mm ²
 finely stranded with core end processing 	0.25 1.5 mm ²
finely stranded without core end processing	0.25 2.5 mm ²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid	2x (0.25 2.5 mm²)
— solid or stranded	2x (0,25 2,5 mm²)
finely stranded with core end processing	2x (0.25 1.5 mm²)
finely stranded without core end processing	2x (0.25 2.5 mm²)
for AWG cables for auxiliary contacts	2x (24 14)
AWG number as coded connectable conductor cross section	
for auxiliary contacts	18 14
Safety related data	
product function	
mirror contact according to IEC 60947-4-1	Yes
 positively driven operation according to IEC 60947-5-1 	No
suitability for use safety-related switching OFF	Yes
B10 value with high demand rate according to SN 31920	1 000 000
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	



Confirmation





<u>KC</u>



EMC

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination Certificate





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

Type Test Certificates/Test Report

Marine / Shipping

other









Miscellaneous

Confirmation

other Railway

Miscellaneous

Vibration and Shock

Special Test Certific-

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)

om/mall/en/en/Catalog/product?mlfb=3RT1056-7AB36-0SF1

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT1056-7AB36-0SF1}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1056-7AB36-0SF1

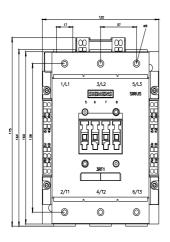
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

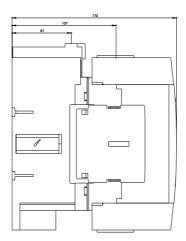
Characteristic: Tripping characteristics, I2t, Let-through current

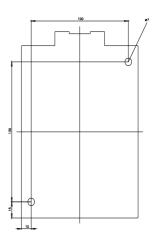
https://support.industry.siemens.com/cs/ww/en/ps/3RT1056-7AB36-0SF1/char

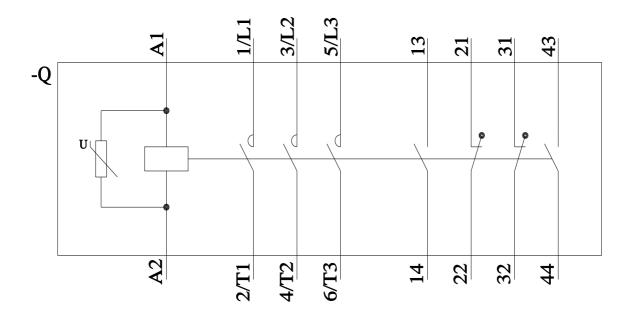
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1056-7AB36-0SF1&objecttype=14&gridview=view1



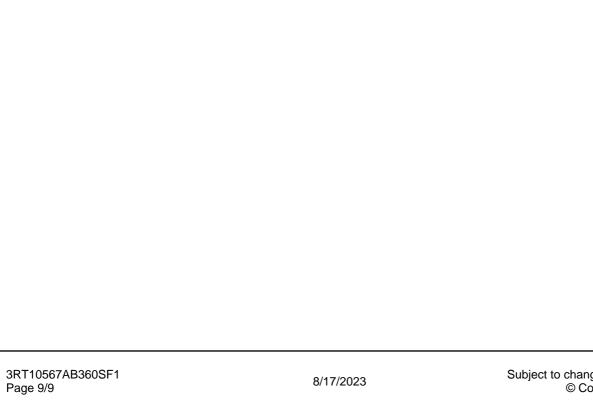






last modified:

8/15/2023



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens:

3RT10567AB360SF1