## 3RT1066-6AP36-3PA0

**Data sheet** 



power contactor, AC-3e/AC-3 300 A, 160 kW / 400 V, AC (50-60 Hz) / DC Uc: 220-240 V 3-pole, auxiliary contacts 2 NO + 2 NC permanently mounted drive: conventional main circuit: busbar control and auxiliary circuit: screw terminal

product brand name	SIRIUS	
product designation	Power contactor	
product type designation	3RT1	
General technical data		
size of contactor	S10	
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>	66 W	
<ul> <li>at AC in hot operating state per pole</li> </ul>	22 W	
<ul> <li>without load current share typical</li> </ul>	7.4 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>	1 000 V	
• of auxiliary circuit with degree of pollution 3 rated value	500 V	
surge voltage resistance		
<ul> <li>of main circuit rated value</li> </ul>	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	
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000	
of the contactor with added auxiliary switch block typical	10 000 000	
reference code according to IEC 81346-2	Q	
Substance Prohibitance (Date)	05/01/2012	
SVHC substance name	Lead - 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	
<ul> <li>at AC-3 rated value maximum</li> </ul>	1 000 V
at AC-3e rated value maximum	1 000 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> <li>at AC-1</li> </ul>	330 A
up to 690 V at ambient temperature 40 °C rated value	330 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	300 A
— up to 1000 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	150 A
<ul> <li>up to 1000 V at ambient temperature 60 °C rated value</li> <li>at AC-3</li> </ul>	150 A
— at 400 V rated value	300 A
— at 500 V rated value	300 A
— at 690 V rated value	280 A
— at 1000 V rated value	95 A
• at AC-3e	30 A
— at 400 V rated value	300 A
	300 A
— at 500 V rated value	
— at 690 V rated value	280 A
— at 1000 V rated value	95 A
at AC-4 at 400 V rated value	280 A
at AC-5a up to 690 V rated value	290 A
at AC-5b up to 400 V rated value	249 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	292 A
— up to 400 V for current peak value n=20 rated value	292 A
— up to 500 V for current peak value n=20 rated value	292 A
— up to 690 V for current peak value n=20 rated value	280 A
<ul> <li>up to 1000 V for current peak value n=20 rated value</li> </ul>	95 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	195 A
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	195 A
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	195 A
— up to 690 V for current peak value n=30 rated value	195 A
— up to 1000 V for current peak value n=30 rated value	95 A
minimum cross-section in main circuit at maximum AC-1 rated value	185 mm²
operational current for approx. 200000 operating cycles at AC-4	105 A
at 600 V rated value  at 600 V rated value	125 A
at 690 V rated value	115 A
operational current	
• at 1 current path at DC-1	200 A
— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	33 A
— at 220 V rated value	3.8 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.6 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	300 A
— at 60 V rated value	300 A

— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	4 A
— at 600 V rated value	2 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	11 A
— at 600 V rated value	5.2 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	300 A
— at 60 V rated value	11 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.18 A
— at 600 V rated value	0.125 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	300 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
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
<ul> <li>at AC-2 at 400 V rated value</li> </ul>	160 kW
• at AC-3	
— at 230 V rated value	90 kW
— at 400 V rated value	160 kW
— at 500 V rated value	200 kW
— at 690 V rated value	250 kW
— at 1000 V rated value	132 kW
• at AC-3e	
— at 230 V rated value	90 kW
— at 400 V rated value	160 kW
— at 500 V rated value	200 kW
— at 690 V rated value	250 kW
— at 1000 V rated value	132 kW
operating power for approx. 200000 operating cycles at AC-	
4 a at 400 V rated value	71 1/1/1
at 400 V rated value     at 600 V rated value	71 kW
at 690 V rated value	112 kW
operating apparent power at AC-6a	440,000 12/4
up to 230 V for current peak value n=20 rated value     up to 400 V for current peak value n=20 rated value	110 000 kVA
up to 400 V for current peak value n=20 rated value     up to 500 V for current peak value n=20 rated value	200 000 VA
up to 500 V for current peak value n=20 rated value     up to 600 V for current peak value n=20 rated value	250 000 VA
up to 690 V for current peak value n=20 rated value      up to 1000 V for current peak value n=20 rated value	330 000 VA
up to 1000 V for current peak value n=20 rated value	160 000 VA
operating apparent power at AC-6a	70 000 \/A
up to 230 V for current peak value n=30 rated value	70 000 VA
• up to 400 V for current peak value n=30 rated value	130 000 VA
• up to 500 V for current peak value n=30 rated value	160 000 VA
• up to 690 V for current peak value n=30 rated value	230 000 VA
<ul> <li>up to 1000 V for current peak value n=30 rated value</li> </ul>	160 000 VA

short-dime withstand current in cold operating state up to 40°C  • limited to 1 is withching at zero current maximum   478°A; Use minimum cross-section acc, to AC-1 rated value   1878°A; Use minimum cross-section acc, to AC-1 rated value   1878°A; Use minimum cross-section acc, to AC-1 rated value   1878°A; Use minimum cross-section acc, to AC-1 rated value   1883°A; Use minimum cross-section acc				
Filmed to 1 s awtiching at zero current maximum   528 A Lise minimum cross-section acc. to AC-1 rated value   4 579 A; Use minimum cross-section acc. to AC-1 rated value   4 579 A; Use minimum cross-section acc. to AC-1 rated value   1 585 A; Use minimum cross-section acc. to AC-1 rated value   1 585 A; Use minimum cross-section acc. to AC-1 rated value   1 585 A; Use minimum cross-section acc. to AC-1 rated value   1 585 A; Use minimum cross-section acc. to AC-1 rated value   1 585 A; Use minimum cross-section acc. to AC-1 rated value   1 585 A; Use minimum cross-section acc. to AC-1 rated value   1 585 A; Use minimum cross-section acc. to AC-1 rated value   1 585 A; Use minimum cross-section acc. to AC-1 rated value   1 585 A; Use minimum cross-section acc. to AC-1 rated value   1 585 A; Use minimum cross-section acc. to AC-1 rated value   2 500 1 th   2 500 1				
elimete to 5 s avoltching at zero current maximum   478 A; Use minimum cross-section acc. to AC-1 rated value   1888 A; Use minimum cross-section acc. to AC-1 rated value   1888 A; Use minimum cross-section acc. to AC-1 rated value   1888 A; Use minimum cross-section acc. to AC-1 rated value   1888 A; Use minimum cross-section acc. to AC-1 rated value   1888 A; Use minimum cross-section acc. to AC-1 rated value   1888 A; Use minimum cross-section acc. to AC-1 rated value   1888 A; Use minimum cross-section acc. to AC-1 rated value   1888 A; Use minimum cross-section acc. to AC-1 rated value   1888 A; Use minimum cross-section acc. to AC-1 rated value   1888 A; Use minimum cross-section acc. to AC-1 rated value   200 sh   1888 A; Use minimum cross-section acc. to AC-1 rated value   200 sh   1888 A; Use minimum cross-section acc. to AC-1 rated value   200 sh   1888 A; Use minimum cross-section acc. to AC-1 rated value   200 sh   1888 A; Use minimum cross-section acc. to AC-1 rated value   200 sh		5 524 A: Use minimum cross-section acc. to AC-1 rated value		
minet to 10 s wortching at zero current maximum   1883 k, Use minimum cross-section act. to AC-1 rated value   1885 k, Use minimum cross-section act. to AC-1 rated value   1885 k, Use minimum cross-section act. to AC-1 rated value   1885 k, Use minimum cross-section act. to AC-1 rated value   1885 k, Use minimum cross-section act. to AC-1 rated value   1885 k, Use minimum cross-section act. to AC-1 rated value   1885 k, Use minimum cross-section act. to AC-1 rated value   1885 k, Use minimum cross-section act. to AC-1 rated value   1885 k, Use minimum cross-section act. to AC-1 rated value   1885 k, Use minimum cross-section act. to AC-1 rated value   1885 k, Use minimum cross-section act. to AC-1 rated value   200 th   1885 k, Use minimum cross-section act. to AC-1 rated value   250 th   1885 k, Use minimum cross-section act. to AC-1 rated value   250 th   1885 k, Use minimum cross-section act. to AC-1 rated value   250 th   1885 k, Use minimum cross-section act. to AC-1 rated value   250 th   1885 k, Use minimum cross-section act. to AC-1 rated value   250 th   1885 k, Use minimum cross-section act. to AC-1 rated value   250 th   1885 k, Use minimum cross-section act. to AC-1 rated value   250 th   1885 k, Use minimum cross-section act. to AC-1 rated value   250 th   1885 k, Use minimum cross-section act. to AC-1 rated value   250 th   1885 k, Use minimum cross-section act. to AC-1 rated value   250 th   1885 k, Use minimum cross-section act. to AC-1 rated value   250 th   250	-			
Initial to 30 a switching at zero current maximum   1485 A; Use minimum cross-section acc. to AC-1 rated value   1445 A; Use minimum cross-section acc. to AC-1 rated value   1445 A; Use minimum cross-section acc. to AC-1 rated value   1445 A; Use minimum cross-section acc. to AC-1 rated value   1445 A; Use minimum cross-section acc. to AC-1 rated value   1445 A; Use minimum cross-section acc. to AC-1 rated value   2000 1/h	-			
• Imited to 60 s switching at zero current maximum  no-load switching requency				
a al AC	-			
at AC	·			
operating frequency  ■ af AC-1 maximum  ■ af AC-3 maximum  ■ af AC-3 maximum  ■ af AC-3 maximum  ■ af AC-3 maximum  ■ af AC-4		2 000 1/h		
a at AC-1 maximum	• at DC	2 000 1/h		
at AC-3 maximum     at AC-3 maximum     at AC-4 maximum     bype of voltage of the control supply voltage     at 50 Hz rated value     at 50 Hz     at 50	operating frequency			
■ at AC-3 maximum	• at AC-1 maximum	750 1/h		
■ at AC-3e maximum     ■ at AC-4 maximum     ■ at AC-4 maximum     Type of voltage of the control supply voltage     ■ at 50 Hz rated value     ■ at 50 Hz	• at AC-2 maximum	250 1/h		
• at AC-4 maximum  formorio (Traull Control Supply voltage at AC  • at 50 Hz rated value • at 50 Hz rated value • at 50 Hz • at 50	• at AC-3 maximum	500 1/h		
Type of voltage of the control supply voltage   ACIDC	• at AC-3e maximum	500 1/h		
Sype of voltage of the control supply voltage at AC	• at AC-4 maximum	130 1/h		
control supply voltage at AC         at 50 Hz rated value         220 240 V           at 50 Hz rated value         220 240 V           control supply voltage at DC rated value         220 240 V           opprating range factor control supply voltage rated value of magnet coil at DC         220 240 V           opprating range factor control supply voltage rated value of magnet coil at AC         0.8           at 150 Hz         0.8           at 50 Hz         0.8 1.1           design of the surge suppressor         with varistor           apparent pick-up power         at minimum rated control supply voltage at AC           — at 50 Hz         490 VA           — at 60 Hz         490 VA           — at 50 Hz         590 VA           — at 50 Hz         60 VA           — at 50 Hz         6.1 VA           — at 60 Hz         6.1 VA           — at 60 Hz         6.1 VA <t< td=""><td>Control circuit/ Control</td><td></td></t<>	Control circuit/ Control			
	type of voltage of the control supply voltage	AC/DC		
	control supply voltage at AC			
control supply voltage at DC rated value  • 220240 V  ragnet coil at DC  • initial value  • full-scale value  • full-scale value  • at 60 Hz  • at 80 Hz  • at maximum rated control supply voltage at AC  • 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 DC  • at 80 Hz	at 50 Hz rated value	220 240 V		
perating range factor control supply voltage rated value of magnet coil at DC  initial value  i	at 60 Hz rated value	220 240 V		
Operating range factor control supply voltage rated value of magnet coil at DC   Value   Va	control supply voltage at DC rated value			
magnet coil at DC		220 240 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 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 DC • at 60 Hz • at 60				
• full-scale value         1.1           operating range factor control supply voltage rated value of magnet coil at AC         0.8 1.1           • at 50 Hz         0.8 1.1           • at 60 Hz         0.8 1.1           • design of the surge suppressor         with varistor           apparent plck-up power         ***           • at minimum rated control supply voltage at AC         490 VA           — at 50 Hz         490 VA           — at 60 Hz         590 VA           — at 50 Hz         590 VA           — at 50 Hz         590 VA           • at 60 Hz         0.9           • at maximum rated control supply voltage at DC         6.1 VA           • at maximum rated control supply voltage at AC         7.4 VA           — at 50 Hz         6.5 VA           — at 60 Hz         6.7 VA           — at 60 Hz		0.0		
operating range factor control supply voltage rated value of magnet coil at AC				
magnet coil at AC         0.8 1.1           • at 50 Hz         0.8 1.1           design of the surge suppressor         with varistor           apparent pick-up power         490 VA           • at minimum rated control supply voltage at AC         490 VA           — at 50 Hz         490 VA           — at 60 Hz         590 VA           — at 50 Hz         590 VA           • at 50 Hz         590 VA           • at 50 Hz         590 VA           • at 50 Hz         0.9           • at 60 Hz         0.9           • at minimum rated control supply voltage at DC         4.1 VA           • at maximum rated control supply voltage at DC         7.4 VA           • at minimum rated control supply voltage at AC         5.6 VA           — at 50 Hz         5.6 VA           • at maximum rated control supply voltage at AC         6.7 VA           — at 60 Hz         6.7 VA           • at maximum rated control supply voltage at AC         6.7 VA           — at 50 Hz         6.7 VA           — at 60 Hz         6.7 VA           — at 60 Hz         6.7 VA </td <td></td> <td>1.1</td>		1.1		
• at 60 Hz   0.8 1.1				
design of the surge suppressor apparent pick-up power at minimum rated control supply voltage at AC — at 50 Hz — at 60 Hz — at 60 Hz — at 50 Hz — at 60 Hz  • at 60 Hz — at 50 Hz — at 60 H	● at 50 Hz	0.8 1.1		
apparent pick-up power  • at minimum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 60 Hz  — at 60 Hz  — at 50 Hz  — at 50 Hz  — at 50 Hz  spaparent pick-up power of magnet coil at AC  • at 50 Hz  • at 60 Hz  spov VA  apparent pick-up power of magnet coil at AC  • at 50 Hz  • at 60 Hz  spov VA  inductive power factor with closing power of the coil  • 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 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 maximum rated control supply voltage at AC  — at 50 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 50 Hz	● at 60 Hz	0.8 1.1		
at minimum rated control supply voltage at AC  — at 50 Hz — at 60 Hz 490 VA  at maximum rated control supply voltage at AC — at 60 Hz — at 50 Hz — at 50 Hz 590 VA apparent pick-up power of magnet coil at AC  • at 50 Hz • at 60 Hz  spo VA  • at 60 Hz  • at 50 Hz • at 60 Hz  • at 60 Hz  • at 60 Hz  • 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 50 Hz • 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 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 — at 60 Hz  • at maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz — at 60 Hz  • at 60 Hz  • at 60 Hz  • 7.4 VA  inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz • a	design of the surge suppressor	with varistor		
- at 50 Hz	apparent pick-up power			
- at 60 Hz  • at maximum rated control supply voltage at AC  — at 60 Hz  — at 50 Hz  spaperent 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 minimum rated control supply voltage at AC  — at 50 Hz  • 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 60 Hz  • at maximum rated control supply voltage at AC  — at 60 Hz  • at maximum rated control supply voltage at AC  — at 60 Hz  • at 60 Hz	<ul> <li>at minimum rated control supply voltage at AC</li> </ul>			
• at maximum rated control supply voltage at AC  — at 60 Hz — at 50 Hz  apparent pick-up power of magnet coil at AC  • at 50 Hz • at 60 Hz • at 60 Hz  • at 50 Hz • at 60 Hz • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at maximum 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 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 maximum rated control supply voltage at AC — at 50 Hz — at 60 Hz • at	— at 50 Hz	490 VA		
- at 50 Hz - at 50 Hz 3pparent pick-up power of magnet coil at AC		490 VA		
— at 50 Hz   590 VA     apparent pick-up power of magnet coil at AC   61 to 150 Hz   590 VA   61 to 160 Hz				
apparent pick-up power of magnet coil at AC  • at 50 Hz • at 60 Hz  inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz  • at 60 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 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  6.7 VA  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  folding power of magnet coil at DC  folding power of magnet coil at DC  folding power of magnet coil at DC  closing delay				
at 50 Hz at 60 Hz 590 VA  inductive power factor with closing power of the coil at 50 Hz at 60 Hz at 60 Hz at 60 Hz 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 maximum rated control supply voltage at AC at 60 Hz at maximum rated control supply voltage at AC at 50 Hz at 50 Hz at 50 Hz at 60 Hz 6.7 VA inductive power factor with the holding power of the coil at 50 Hz at 60 Hz at 50 Hz at 60 Hz  closing power of magnet coil at DC folding power foldi		590 VA		
• at 60 Hz  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 minimum rated control supply voltage at DC • at minimum rated control supply voltage at DC  - at 50 Hz - at 50 Hz - at 60 Hz  • at maximum rated control supply voltage at AC - at 50 Hz - at 60 Hz  6.7 VA - at 60 Hz  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				
inductive power factor with closing power of the coil  at 50 Hz  at 60 Hz  0.9  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 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 maximum rated control supply voltage at AC  at 50 Hz  at 60 Hz  6.7 VA  and 60 Hz  inductive power factor with the holding power of the coil  at 50 Hz  at 60 Hz  0.9  closing power of magnet coil at DC  folioning power of magnet coil at DC  7.4 W  closing delay	*****			
at 50 Hz at 60 Hz  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  6.7 VA  at maximum rated control supply voltage at AC  at 50 Hz at 60 Hz  6.7 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  folioning delay		590 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 50 Hz  at 60 Hz  at 60 Hz  5.6 VA  at maximum rated control supply voltage at AC  at 50 Hz  at 50 Hz  at 50 Hz  at 50 Hz  at 60 Hz  6.7 VA  inductive power factor with the holding power of the coil  at 50 Hz  at 60 Hz  6.9 VA  closing power of magnet coil at DC  folion of magnet coil at DC  folion of magnet coil at DC  7.4 W  closing delay		0.0		
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 maximum rated control supply voltage at AC — at 50 Hz — at 50 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  inductive power factor with the holding power of the coil • at 60 Hz  closing power of magnet coil at DC  holding power of magnet coil at DC  fosion gelay				
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  6.7 VA  inductive power factor with the holding power of the coil  at 50 Hz  at 60 Hz  0.9  closing power of magnet coil at DC  holding power of magnet coil at DC  to some power of magnet coil at DC  to some power of magnet coil at DC  7.4 W  closing delay		0.8		
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  6.7 VA  inductive power factor with the holding power of the coil  at 50 Hz at 60 Hz  6.7 VA  inductive power of magnet coil at DC  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay  7.4 VA		6.1 VA		
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  inductive power factor with the holding power of the coil  • at 50 Hz • at 60 Hz  • at 60 Hz  one of Hz  one of Hz  closing power of magnet coil at DC  closing delay  5.6 VA  6.7 VA  6.7 VA  0.9  6.7 VA  0.9  7.4 W  closing delay				
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  6.7 VA — at 60 Hz  inductive power factor with the holding power of the coil at 50 Hz at 60 Hz  0.9  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay  5.6 VA  6.7 VA  6.7 VA  6.7 VA  6.9  7.4 W	· · · · · · ·			
- at 50 Hz - at 60 Hz  • at maximum rated control supply voltage at AC - at 50 Hz - at 60 Hz  6.7 VA - at 60 Hz  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 60 Hz  • at maximum rated control supply voltage at AC  - at 50 Hz  - at 60 Hz  6.7 VA  inductive power factor with the holding power of the coil  • at 50 Hz  • at 60 Hz  0.9  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay  5.6 VA  6.7 VA  0.9 VA  6.7 VA  7.4 W		5.6 VA		
at maximum rated control supply voltage at AC  — at 50 Hz — at 60 Hz  inductive power factor with the holding power of the coil  at 50 Hz at 60 Hz  0.9  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay  6.7 VA  0.9  0.9  7.4 W				
- 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  6.7 VA  6.7 VA  6.9  0.9  7.4 W  7.4 W				
- at 60 Hz  inductive power factor with the holding power of the coil  • at 50 Hz • at 60 Hz  0.9  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay  6.7 VA  0.9  7.4 W		6.7 VA		
inductive power factor with the holding power of the coil  • at 50 Hz • at 60 Hz  0.9  closing power of magnet coil at DC  holding power of magnet coil at DC  7.4 W  closing delay				
at 50 Hz     at 60 Hz     0.9  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay  0.9  650 W  7.4 W				
closing power of magnet coil at DC  holding power of magnet coil at DC  7.4 W  closing delay		0.9		
holding power of magnet coil at DC 7.4 W  closing delay	● at 60 Hz	0.9		
closing delay	closing power of magnet coil at DC	650 W		
	holding power of magnet coil at DC	7.4 W		
• at AC 30 95 ms	closing delay			
	• at AC	30 95 ms		

4.00	00 05		
• at DC	30 95 ms		
opening delay	40 00		
• at AC	40 80 ms		
• at DC	40 80 ms		
arcing time	10 15 ms		
control version of the switch operating mechanism	Standard A1 - A2		
Auxiliary circuit			
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			
<ul> <li>at 230 V rated value</li> </ul>	6 A		
<ul> <li>at 400 V rated value</li> </ul>	3 A		
<ul> <li>at 500 V rated value</li> </ul>	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	1A		
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	risally criticining per recomment (1. 1.)		
full-load current (FLA) for 3-phase AC motor			
• at 480 V rated value	302 A		
at 600 V rated value	289 A		
yielded mechanical performance [hp]	200 A		
• for 3-phase AC motor			
— at 200/208 V rated value	100 hp		
— at 200/200 V rated value  — at 220/230 V rated value	100 hp		
	125 hp		
<ul><li>— at 460/480 V rated value</li><li>— at 575/600 V rated value</li></ul>	250 hp		
	300 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	~C. F00 A (000 V 400 kA)		
— with type of coordination 1 required	gG: 500 A (690 V, 100 kA)		
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)		
for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)		
Installation/ mounting/ dimensions	90. 10.11 (000 4, 1 10 )		
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface		
factoning mathed	+/- 22.5° tiltable to the front and back		
fastening method	screw fixing		
height	210 mm		
width	145 mm		
depth	202 mm		
required spacing			
with side-by-side mounting			
— forwards	20 mm		

— upwards	10 mm		
— downwards	10 mm		
— at the side	0 mm		
<ul> <li>for grounded parts</li> </ul>			
— forwards	20 mm		
— upwards	10 mm		
— at the side	10 mm		
— downwards	10 mm		
<ul> <li>for live parts</li> </ul>			
— forwards	20 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	10 mm		
Connections/ Terminals			
type of electrical connection			
for main current circuit	Connection bar		
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals		
at contactor for auxiliary contacts	Screw-type terminals		
• of magnet coil	Screw-type terminals		
width of connection bar	25 mm		
thickness of connection bar	6 mm		
diameter of holes	11 mm		
number of holes	1		
type of connectable conductor cross-sections			
<ul> <li>for AWG cables for main contacts</li> </ul>	2/0 500 kcmil		
connectable conductor cross-section for main contacts			
• stranded	70 240 mm²		
connectable conductor cross-section for auxiliary contacts			
solid or stranded	0.5 4 mm²		
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²		
type of connectable conductor cross-sections			
for auxiliary contacts			
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)		
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)		
<ul> <li>finely stranded with core end processing</li> </ul>	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), 1x 12		
AWG number as coded connectable conductor cross			
section			
<ul> <li>for auxiliary contacts</li> </ul>	18 14		
Safety related data			
product function			
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes		
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No		
suitability for use safety-related switching OFF	Yes; applies only to contactor operating mechanism		
B10 value with high demand rate according to SN 31920	1 000 000		
IEC 61508			
T1 value			
<ul> <li>for proof test interval or service life according to IEC 61508</li> </ul>	20 a		
Electrical Safety			
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover		
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover		
Approvals Certificates			
General Product Approval			







Confirmation





General Product Approval	EMV	Functional Saftey	Test Certificates
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Type Examination Certificate

Type Test Certificates/Test Report

Special Test Certificate

**Test Certificates** 

Marine / Shipping

**Miscellaneous** 











other			Railway	Environment
Confirmation	<u>Miscellaneous</u>	Miscellaneous	Special Test Certificate	Environmental Con- firmations

## 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=3RT1066-6AP36-3PA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1066-6AP36-3PA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-6AP36-3PA0

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

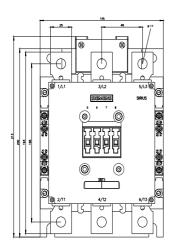
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1066-6AP36-3PA0&lang=en

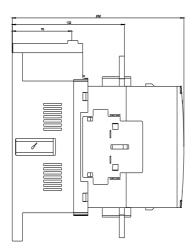
Characteristic: Tripping characteristics, I2t, Let-through current

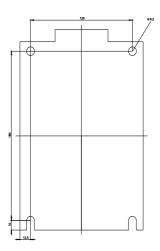
https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-6AP36-3PA0/char

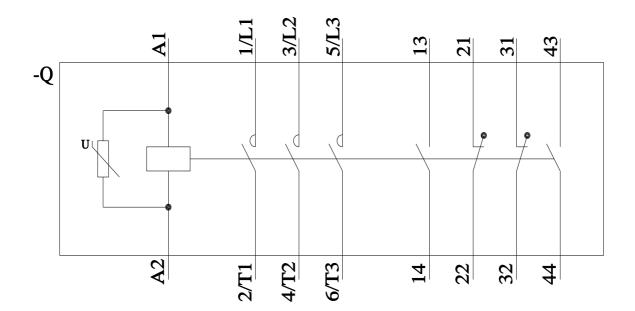
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1066-6AP36-3PA0&objecttype=14&gridview=view1









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