## **SIEMENS**

Data sheet 3RT1066-6AU36

SIRIUS





power contactor, AC-3e/AC-3 300 A, 160 kW / 400 V, AC (50-60 Hz) / DC Uc: 240-277 V 3-pole, auxiliary contacts 2 NO + 2 NC drive: conventional main circuit: busbar control and auxiliary circuit: screw terminal



product type designation 9 No 98T1  Size of contactor 5 S10  product extension 6 No 9 No		
Size of contactor product extension • function module for communication • auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state per pole • without load current share typical rof main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit rated value • at AC • at DC • at DC  stock resistance with sine pulse • at AC • at DC  stock resistance with sine pulse • at AC • at DC  stock resistance with sine pulse • at AC • at DC  stock resistance with sine pulse • at AC • at DC  stock resistance with sine pulse • at AC • at DC  stock resistance with sine pulse • at AC • at DC  stock resistance with sine pulse • at AC • at DC  stock resistance with sine pulse • at AC • at DC  stock resistance with sine pulse • at AC • at DC  stock resistance with sine pulse • at AC • at DC  stock resistance with sine pulse • at AC • at DC  stock resistance with sine pulse • at AC • at DC  stock resistance with sine pulse • at AC • at DC  stock resistance with sine pulse • at AC • at DC  stock resistan	product designation	Power contactor
size of contactor  product extension  • function module for communication • auxillary switch  power loss [W] for rated value of the current • at AC in hot operating state 66 W • at AC in hot operating state per pole • without load current share typical 7.4 W  type of calculation of power loss depending on pole insulation voltage • of main circuit with degree of pollution 3 rated value • of auxillary circuit rated value • of auxillary circuit rated value • of main circuit value • of auxillary circuit rated value  • of main contacts according to EN 60947-1  shock resistance at rectangular impulse • at AC • at DC  shock resistance at rectangular impulse • at AC • at DC  shock resistance with sine pulse • at AC • at DC  shock resistance with sine pulse • of the contactor with added electronically optimized auxillary switch block typical • of the contactor with added electronically optimized auxillary switch block typical • of the contactor with added electronically optimized auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor of the Contact	product type designation	3RT1
product extension • function module for communication • auxiliary switch  power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole • without load current share typical • of main circuit mith degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit rated value • of auxiliary systicate at rectangular impulse • at AC • at A	General technical data	
• function module for communication • auxiliary switch  power loss [W] for rated value of the current • at AC in hot operating state   66 W • at AC in hot operating state   7.4 W  type of calculation of power loss depending on pole   9.1 without load current share typical   7.4 W  type of calculation of power loss depending on pole   9.1 without load current share typical   7.4 W  type of calculation of power loss depending on pole   9.1 without voltage   9.2 without voltage   9.3 without point of power loss depending on pole   9.3 without point of power loss depending on pole   9.3 without point of power loss depending on pole   9.3 without point of power loss depending on pole   9.3 without point of power loss depending on pole   9.3 without point p	size of contactor	S10
auxiliary switch  power loss [W] for rated value of the current  at AC in hot operating state	product extension	
power loss [W] for rated value of the current  at AC in hot operating state at AC in hot operating state peole without load current share typical ytpe of calculation of power loss depending on pole insulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value surge voltage resistance of main circuit rated value of auxiliary circuit rated value of wk of auxiliary switch block typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added optimized auxiliary switch block typical of the contactor with added optimized auxiliary switch block typical of the conta	<ul> <li>function module for communication</li> </ul>	No
at AC in hot operating state at AC in hot operating state per pole without load current share typical type of calculation of power loss depending on pole insulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit rated value of main circuit rated value of auxiliary circuit rated value sof main circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value solve resistance of main cortacts according to EN 60947-1 shock resistance at rectangular impulse of at AC of at	auxiliary switch	Yes
at AC in hot operating state per pole  without load current share typical  type of calculation of power loss depending on pole  insulation voltage  of main circuit with degree of pollution 3 rated value  of auxiliary circuit with degree of pollution 3 rated value  of auxiliary circuit with degree of pollution 3 rated value  of auxiliary circuit rated value  of main circuit rated value  of auxiliary circuit rated value  of auxiliary circuit rated value  if kV  maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse  of the Cartes of the state of the contactor with added electronically optimized auxiliary switch block typical  of the contactor with added auxiliary switch block typical  of the contactor with added auxiliary switch block typical  of the contactor with added auxiliary switch block typical  reference code according to EC 81346-2  Substance Prohibitance (Date)  Weight  Ambient conditions	power loss [W] for rated value of the current	
without load current share typical     type of calculation of power loss depending on pole     insulation voltage	<ul> <li>at AC in hot operating state</li> </ul>	66 W
type of calculation of power loss depending on pole insulation voltage  • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of main circuit rated value • of auxiliary circuit rated value  • of main circuit rated value • of auxiliary circuit rated value  • at NC • at DC • at AC • at DC • at AC • at DC • at DC • at DC • at DC • of contactor typical • of contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical	<ul> <li>at AC in hot operating state per pole</li> </ul>	22 W
insulation voltage  of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value 500 V  surge voltage resistance of main circuit rated value of auxiliary circuit rated value 6 kV  maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse at AC at AC strict Polymore at DC shock resistance with sine pulse at AC at AC strict Polymore at AC at AC strict Polymore at AC strict Polymore shock resistance with sine pulse at AC strict Polymore at AC strict Polymore shock resistance with sine pulse at AC strict Polymore shock resistance with sine pulse at AC strict Polymore shock resistance with sine pulse at AC strict Polymore shock resistance with sine pulse at AC strict Polymore shock resistance with sine pulse at AC strict Polymore shock resistance with sine pulse at AC strict Polymore shock resistance with sine pulse at AC strict Polymore shock resistance with sine pulse at AC strict Polymore shock resistance with added electronically optimized auxiliary switch block typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical block typical auxiliary switch block typical block typical contact Polymore shock resistance Polymore shock r	without load current share typical	7.4 W
of main circuit with degree of pollution 3 rated value     of auxiliary circuit with degree of pollution 3 rated value     surge voltage resistance     of main circuit rated value     of auxiliary circuit rated value     of kV  maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1  shock resistance at rectangular impulse     at AC     at DC     s.5g / 5 ms, 4,2g / 10 ms  shock resistance with sine pulse     at AC     at AC     at AC     at AC     at DC     id AG     at DC     id AG     of contactor with aided electronically optimized auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     visual auxiliary switch block typical     in 000 000  reference code according to IEC 81346-2     Q  Substance Prohibitance (Date)  SVHC substance name     Lead - 7439-92-1  Weight  Ambient conditions	type of calculation of power loss depending on pole	quadratic
of auxiliary circuit with degree of pollution 3 rated value     surge voltage resistance     of main circuit rated value     of auxiliary circuit rated value     of auxiliary circuit rated value     of auxiliary circuit rated value     of word main contacts according to EN 60947-1      shock resistance at rectangular impulse     ot at AC     ot at DC     ot at DC     shock resistance with sine pulse     ot at AC     ot at DC     shock resistance with sine pulse     ot at AC     ot at DC     shock resistance with sine pulse     ot at AC     ot at DC     shock resistance with sine pulse     is 3,5g / 5 ms, 4,2g / 10 ms     shock resistance with sine pulse     is 3,5g / 5 ms, 6,5g / 10 ms     shock resistance with sine pulse     is 4,00 / 0 ms     shock resistance with sine pulse     ot at DC     shock resistance with sine pulse     ot at DC     shock resistance with sine pulse     is 4,00 / 0 ms     shock resistance with sine pulse     ot at DC     shock resistance with sine pulse     is 4,00 / 0 ms     shock resistance with sine pulse     ot at DC     shock resistance with sine pulse     is 5,00 / 10 ms     shock resistance with sine pulse     ot at DC     shock resistance with sine pulse     is 5,00 / 10 ms     shock resistance with sine pulse     is 5,00 / 10 ms     sho	insulation voltage	
surge voltage resistance  of main circuit rated value  of auxiliary circuit rated value  of auxiliary circuit rated value  of auxiliary circuit rated value  of kV  maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse  ot AC  ot DC  ot AC  ot	<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
of main circuit rated value     of auxiliary circuit rated value     maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse     ot AC     ot DC     ot AC	<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	500 V
of auxiliary circuit rated value     maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse     o at AC     o at DC     o at AC     o	surge voltage resistance	
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse  • at AC  • at DC  shock resistance with sine pulse  • at AC  • at DC  shock resistance with sine pulse  • at AC  • at DC  13,4g / 5 ms, 4,2g / 10 ms  **The shock resistance with sine pulse  • at AC  • at DC  13,4g / 5 ms, 6,5g / 10 ms  mechanical service life (operating cycles)  • of contactor typical  • of the contactor with added electronically optimized auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical	of main circuit rated value	8 kV
coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse  • at AC  • at DC  shock resistance with sine pulse  • at AC  • at DC  shock resistance with sine pulse  • at AC  • at DC  13,4g / 5 ms, 4,2g / 10 ms  **The shock resistance with sine pulse  • at AC  • at DC  13,4g / 5 ms, 6,5g / 10 ms  mechanical service life (operating cycles)  • of contactor typical  • of the contactor with added electronically optimized auxiliary switch block typical  • of the contactor with added auxiliary switch block typical	of auxiliary circuit rated value	6 kV
at AC at DC shock resistance with sine pulse  at AC at AC at AC at AC at AC at AC at DC shock resistance with sine pulse  at AC at AC at DC shock resistance with sine pulse  at AC at AC at DC shock resistance with sine pulse  at AC a		690 V
at DC  shock resistance with sine pulse  at AC  at DC  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  of the contactor with added electronically optimized auxiliary switch block typical  of the contactor with added auxiliary switch block typical  of the contactor with added auxiliary switch block typical  of the contactor with added auxiliary switch block typical  to 000 000  reference code according to IEC 81346-2  Qu  Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1  Weight  Ambient conditions	shock resistance at rectangular impulse	
shock resistance with sine pulse  at AC  at DC  13,4g / 5 ms, 6,5g / 10 ms  mechanical service life (operating cycles)  of contactor typical  of the contactor with added electronically optimized auxiliary switch block typical  of the contactor with added auxiliary switch block typical  of the contactor with added auxiliary switch block typical  of the contactor with added auxiliary switch block typical  to 000 000  reference code according to IEC 81346-2  Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1  Weight  Ambient conditions	• at AC	8,5g / 5 ms, 4,2g / 10 ms
<ul> <li>at AC</li> <li>at DC</li> <li>13,4g / 5 ms, 6,5g / 10 ms</li> <li>mechanical service life (operating cycles)</li> <li>of contactor typical</li> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>reference code according to IEC 81346-2</li> <li>Substance Prohibitance (Date)</li> <li>SVHC substance name</li> <li>Lead - 7439-92-1</li> <li>Weight</li> <li>6.654 kg</li> </ul> Ambient conditions	• at DC	8,5g / 5 ms, 4,2g / 10 ms
at DC     13,4g / 5 ms, 6,5g / 10 ms  mechanical service life (operating cycles)     of contactor typical     of the contactor with added electronically optimized auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     reference code according to IEC 81346-2     Substance Prohibitance (Date)  SVHC substance name     Lead - 7439-92-1  Weight     6.654 kg  Ambient conditions	shock resistance with sine pulse	
mechanical service life (operating cycles)  • of contactor typical  • of the contactor with added electronically optimized auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1  Weight  6.654 kg  Ambient conditions	• at AC	13,4g / 5 ms, 6,5g / 10 ms
of contactor typical     of the contactor with added electronically optimized auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     reference code according to IEC 81346-2  Substance Prohibitance (Date)  SVHC substance name     Lead - 7439-92-1  Weight  Ambient conditions	• at DC	13,4g / 5 ms, 6,5g / 10 ms
of the contactor with added electronically optimized auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical      reference code according to IEC 81346-2  Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1  Weight  6.654 kg  Ambient conditions	mechanical service life (operating cycles)	
auxiliary switch block typical  of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1  Weight  6.654 kg  Ambient conditions	of contactor typical	10 000 000
reference code according to IEC 81346-2  Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1  Weight  6.654 kg  Ambient conditions		5 000 000
Substance Prohibitance (Date)  SVHC substance name  Lead - 7439-92-1  Weight  6.654 kg  Ambient conditions	of the contactor with added auxiliary switch block typical	10 000 000
SVHC substance name  Lead - 7439-92-1  Weight  6.654 kg  Ambient conditions	reference code according to IEC 81346-2	Q
Weight 6.654 kg Ambient conditions	Substance Prohibitance (Date)	
Ambient conditions	SVHC substance name	Lead - 7439-92-1
	Weight	6.654 kg
installation altitude at height above sea level maximum 2 000 m	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 Environmental footprint	
	V
Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] total	580 kg
Global Warming Potential [CO2 eq] during manufacturing	26.3 kg
Global Warming Potential [CO2 eq] during operation	559 kg
Global Warming Potential [CO2 eq] after end of life	-4.89 kg
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> </ul>	330 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	330 A
— up to 690 V at ambient temperature 60 °C rated value	300 A 150 A
<ul> <li>— up to 1000 V at ambient temperature 40 °C rated value</li> <li>— up to 1000 V at ambient temperature 60 °C rated</li> </ul>	150 A
value  • at AC-3	130 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	
— 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
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	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
— up to 1000 V for current peak value n=20 rated value	95 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	195 A
— up to 400 V for current peak value n=30 rated value	195 A
— up to 500 V for current peak value n=30 rated value	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	
at 400 V rated value	125 A
at 690 V rated value	115 A
operational current	

at 1 current path at DC-1	
— 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
• at 1 current path at DC-3 at DC-5	
— 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
with 3 current paths in series at DC-3 at DC-5	
— 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 440 V rated value  — at 600 V rated value	0.75 A
operating power	0.107.
• at AC-3	
— at 230 V rated value	90 kW
— at 200 V rated value  — at 400 V rated value	160 kW
— at 400 V rated value  — at 500 V rated value	200 kW
— at 500 V rated value  — at 690 V rated value	250 kW
— at 1000 V rated value  • at AC-3e	132 kW
	00 KW
— 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-	
at 400 V rated value	71 kW
at 400 V rated value     at 690 V rated value	112 kW
operating apparent power at AC-6a	
up to 230 V for current peak value n=20 rated value	110 000 kVA
up to 400 V for current peak value n=20 rated value	200 000 VA
Sp. 12 122 1 121 221 on pour raido II 20 Idiod Faido	

• up to 500 V for current peak value n=20 rated value	250 000 VA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	330 000 VA
• up to 1000 V for current peak value n=20 rated value	160 000 VA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	70 000 VA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	130 000 VA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	160 000 VA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	230 000 VA
• up to 1000 V for current peak value n=30 rated value	160 000 VA
short-time with stand current in cold operating state up to 40 $^{\circ}\mathrm{C}$	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	5 524 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	4 579 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	3 153 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	1 883 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	1 445 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	2 000 1/h
• at DC	2 000 1/h
operating frequency	
• at AC-1 maximum	750 1/h
• at AC-2 maximum	250 1/h
• at AC-3 maximum	500 1/h
• at AC-3e maximum	500 1/h
• at AC-4 maximum	130 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
• at 50 Hz rated value	240 277 V
at 60 Hz rated value	240 277 V
control supply voltage at DC rated value	240 277 V
operating range factor control supply voltage rated value of	
magnet coil at DC	
• initial value	0.8
full-scale value	1.1
operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 1.1
● at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
apparent pick-up power	
<ul> <li>at minimum rated control supply voltage at AC</li> </ul>	
— at 50 Hz	490 VA
— at 60 Hz	490 VA
<ul> <li>at maximum rated control supply voltage at AC</li> </ul>	
— at 60 Hz	590 VA
— at 50 Hz	590 VA
apparent pick-up power of magnet coil at AC	
• at 50 Hz	590 VA
• at 60 Hz	590 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.9
• at 60 Hz	0.9
apparent holding power	
at minimum rated control supply voltage at DC	6.1 VA
at maximum rated control supply voltage at DC	7.4 VA
apparent holding power	
at minimum rated control supply voltage at AC	
— at 50 Hz	5.6 VA
— at 60 Hz	5.6 VA
at maximum rated control supply voltage at AC	
— at 50 Hz	6.7 VA

400 11	0.714
— at 60 Hz	6.7 VA
inductive power factor with the holding power of the coil	
at 50 Hz	0.9
• at 60 Hz	0.9
closing power of magnet coil at DC	650 W
holding power of magnet coil at DC	7.4 W
closing delay	
• at AC	30 95 ms
• at DC	30 95 ms
opening delay	
• 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	2
contact	
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 125 V rated value     at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
	1 faulty switching per 100 million (17 V, 1 mA)
contact reliability of auxiliary contacts UL/CSA ratings	Fraulty Switching per 100 million (17 V, 1 ma)
full-load current (FLA) for 3-phase AC motor	202 A
at 480 V rated value	302 A
at 600 V rated value	289 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	400.1
— at 200/208 V rated value	100 hp
— at 220/230 V rated value	125 hp
— at 460/480 V rated value	250 hp
— at 575/600 V rated value	300 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 500 A (690 V, 100 kA)
— with type of assignment 2 required	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	
	· · · · · · · · · · · · · · · · · · ·

mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
	210 mm
height width	145 mm
depth	202 mm
•	202 (1)(1)
required spacing	
with side-by-side mounting     — forwards	20 mm
— upwards	10 mm
— dpwards	10 mm
— at the side	0 mm
• for grounded parts	O Hilli
— forwards	20 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
• for live parts	10 11111
— forwards	20 mm
— upwards	10 mm
— dpwards — downwards	10 mm
— at the side	10 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	Connection bar
for auxiliary and control circuit	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	
for AWG cables for main contacts	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)
— 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), 1x 12
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
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No
suitable for safety function	Yes
suitability for use safety-related switching OFF	Yes
service life maximum	20 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
with low demand rate according to SN 31920	40 %
with high demand rate according to SN 31920	73 %
B10 value with high demand rate according to SN 31920	1 000 000
failure rate [FIT] with low demand rate according to SN	100 FIT

31920	
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type 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





<u>KC</u>

**General Product Ap-**

EMV

**Functional Saftey** 

**Test Certificates** 

Marine / Shipping





Type Examination Certificate

**Special Test Certific-**

Type Test Certificates/Test Report



Marine / Shipping









Confirmation

other

**Miscellaneous** 

other Railway

Confirmation

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



**Environment** 

Siemens **EcoTech** 



**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=3RT1066-6AU36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1066-6AU36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-6AU36

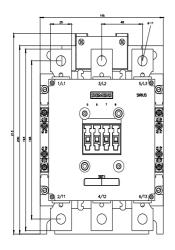
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

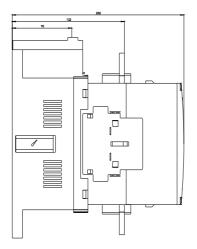
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1066-6AU36&lang=en

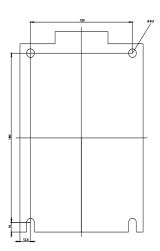
Characteristic: Tripping characteristics, I2t, Let-through current

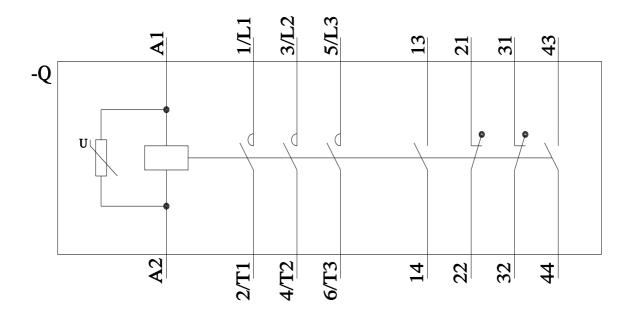
https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-6AU36/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1066-6AU36&objecttype=14&gridview=view1









last modified:

