SIEMENS

Data sheet 3RT1076-6AF36

SIRIUS





power contactor, AC-3e/AC-3 500 A, 250 kW / 400 V AC (50-60 Hz) / DC Uc: 110-127 V 3-pole, auxiliary contacts 2 NO + 2 NC drive: conventional main circuit: busbar control and auxiliary circuit: screw terminal



product type designation Power contactor product type designation SRT1 Size of contactor product extension • function module for communication • auxillary switch • at AC in hot operating state per pole • at AC in hot operating state per pole • at AC in hot operating state per pole • of main circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of of main circuit rated value • of auxillary circuit with degree of pollution 3 rated value • of waxillary circuit with degree of pollution 3 rated value • of waxillary circuit with degree of pollution 3 rated value • of waxillary circuit with degree of pollution 3 rated value • of waxillary circuit with degree of pollution 3 rated value • of waxillary circuit with degree of pollution 3 rated value • of waxillary circuit with degree of pollution 3 rated value • of waxillary circuit with degree of pollution 3 rated value • of waxillary circuit with degree of pollution 3 rated value • of waxillary circuit with degree of pollution 3 rated value • of the contactor with added electronically optimized auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillary switch block typical • of the contactor with added auxillar	p · · · · · · · · · · · · · · · · · · ·	
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 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 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 • at DC • at AC • at DC • of contactor with added electronically optimized • of the contactor with added electronically optimized • 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	product designation	Power contactor
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 • at AC in hot operating state per pole • without load current share typical 10 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 auxiliary circuit trated value • of auxiliary circuit rated value • of main circuit rated value • of main circuit rated value • of auxiliary switch block typical • at AC	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 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 with degree of pollution 3 rated value • of main circuit rated value • of auxiliary circuit rated value • 8kV • 6kV	General technical data	
• 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 type of calculation of power loss depending on pole insulation voltag • 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 wolday	size of contactor	S12
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 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 surge voltage resistance of main circuit rated value of auxiliary circuit rated value 8 kV of auxiliary circuit rated value of auxiliary circuit rated value 8 kV of auxiliary circuit rated value 8 kV of substance at rectangular impulse at AC at AC styles a	product extension	
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 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 main circuit rated value • of auxiliary circuit rated value • of auxiliary 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 • at AC • at DC • at DC • at DC • at AC	 function module for communication 	No
at AC in hot operating state et AC in hot operating state per pole without load current share typical 10 W quadratic insulation voltage of main circuit with degree of pollution 3 rated value of main circuit rated value et of auxiliary circuit with degree of pollution 3 rated value 500 V surge voltage resistance of main circuit rated value 8 kV of auxiliary contacts according to EN 60947-1 shock resistance at rectangular impulse at AC 8,5g / 5 ms, 4,2g / 10 ms and AC at AC 8,5g / 5 ms, 4,2g / 10 ms and AC at AC 13,4g / 5 ms, 6,5g / 10 ms at AC 13,4g / 5 ms, 6,5g / 10 ms at AC 13,4g / 5 ms, 6,5g / 10 ms at AC 5 of contactor with added electronically optimized auxiliary switch block typical 10 000 000 5 000 000 000 000 000 000 00	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 surge voltage resistance of main circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value if work with a degree of pollution 3 rated value of auxiliary circuit rated value if work with a degree of pollution 3 rated value if work with a degree of pollution 2 to work with a degree of pollution 3 rated value if work with with degree of pollution 2 to work with a degree of pollution 3 rated value if work with with degree of work with with a degree of w	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 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 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	 at AC in hot operating state 	165 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 for auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary switch sine poles 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	 at AC in hot operating state per pole 	55 W
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 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 • at AC • at DC shock resistance with sine pulse • at AC • at DC at DC at DC at DC at DC 13,4g / 5 ms, 4,2g / 10 ms 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 reference code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight	without load current share typical	10 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 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	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 kV maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse of at AC of the Contactor with sine pulse of at AC of the contactor vith added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical	insulation voltage	
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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 DC ot DC ot AC	 of auxiliary circuit with degree of pollution 3 rated value 	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 shock resistance with sine pulse o at AC o at DC shock resistance with sine pulse o at DC 13,4g / 5 ms, 6,5g / 10 ms o 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	surge voltage resistance	
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shock resistance at rectangular impulse • at AC • at DC shock resistance with sine pulse • at AC • at DC • 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 8,5g / 5 ms, 4,2g / 10 ms shock resistance with sine pulse at AC at DC 13,4g / 5 ms, 6,5g / 10 ms at DC 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 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 swit		690 V
at DC shock resistance with sine pulse at AC at DC at	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 • of the contactor with added auxiliary switch block typical Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight	• at AC	8,5g / 5 ms, 4,2g / 10 ms
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 at DC 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 veference code according to IEC 81346-2 Q Substance Prohibitance (Date) O5/01/2012 SVHC substance name Lead - 7439-92-1 Weight 10.49 kg 	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 Qu Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight	• 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 10 000 000 Lead - 7439-92-1 Weight 	• 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 10.49 kg	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 10.49 kg	of contactor typical	10 000 000
reference code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 10.49 kg		5 000 000
Substance Prohibitance (Date) 05/01/2012 SVHC substance name Lead - 7439-92-1 Weight 10.49 kg	 of the contactor with added auxiliary switch block typical 	10 000 000
SVHC substance name Lead - 7439-92-1 Weight 10.49 kg	reference code according to IEC 81346-2	Q
Weight 10.49 kg	Substance Prohibitance (Date)	05/01/2012
· ·	SVHC substance name	Lead - 7439-92-1
	Weight	10.49 kg
Ambient conditions	Ambient conditions	
installation altitude at height above sea level maximum 2 000 m	installation altitude at height above sea level maximum	2 000 m

ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Environmental footprint	
global warming potential [CO2 eq] total	769 kg
global warming potential [CO2 eq] during manufacturing	55.8 kg
global warming potential [CO2 eq] during sales	2.54 kg
global warming potential [CO2 eq] during operation	718 kg
global warming potential [CO2 eq] after end of life	-7.03 kg
Siemens Eco Profile (SEP)	Siemens EcoTech
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	610 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	610 A
— up to 690 V at ambient temperature 60 °C rated value	550 A
— up to 1000 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	200 A
— up to 1000 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	200 A
• at AC-3	
— at 400 V rated value	500 A
— at 500 V rated value	500 A
— at 690 V rated value	450 A
— at 1000 V rated value	180 A
• at AC-3e	
— at 400 V rated value	500 A
— at 500 V rated value	500 A
— at 690 V rated value	450 A
— at 1000 V rated value	180 A
• at AC-4 at 400 V rated value	430 A
• at AC-5a up to 690 V rated value	536 A
• at AC-5b up to 400 V rated value	415 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	414 A
— up to 400 V for current peak value n=20 rated value	414 A
— up to 500 V for current peak value n=20 rated value	414 A
— up to 690 V for current peak value n=20 rated value	414 A
— up to 1000 V for current peak value n=20 rated value	180 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	276 A
— up to 400 V for current peak value n=30 rated value	276 A
— up to 500 V for current peak value n=30 rated value	276 A
— up to 690 V for current peak value n=30 rated value	276 A
— up to 1000 V for current peak value n=30 rated value	180 A
minimum cross-section in main circuit at maximum AC-1 rated	
value	370 mm ²
	370 mm ²
value operational current for approx. 200000 operating cycles at	175 A 150 A

operational current	
at 1 current path at DC-1	
— at 24 V rated value	400 A
— at 60 V rated value	330 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
with 2 current paths in series at DC-1	
— at 24 V rated value	400 A
— at 60 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
— at 440 V rated value	4 A
— at 600 V rated value	2 A
with 3 current paths in series at DC-1	
— at 24 V rated value	400 A
— at 60 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 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	400 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
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	400 A
— at 60 V rated value	400 A
— at 110 V rated value	400 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	400 A
— at 60 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
• at AC-3	
— at 230 V rated value	160 kW
— at 400 V rated value	250 kW
— at 500 V rated value	315 kW
— at 690 V rated value	400 kW
— at 1000 V rated value	250 kW
• at AC-3e	
— at 230 V rated value	160 kW
— at 400 V rated value	250 kW
— at 500 V rated value	315 kW
— at 690 V rated value	400 kW
— at 1000 V rated value	250 kW
operating power for approx. 200000 operating cycles at AC-	
• at 400 V rated value	98 kW
at 690 V rated value	148 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	160 kVA

• up to 400 V for current peak value n=20 rated value	280 kVA
 up to 500 V for current peak value n=20 rated value 	350 kVA
 up to 690 V for current peak value n=20 rated value 	490 kVA
 up to 1000 V for current peak value n=20 rated value 	310 kVA
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	110 kVA
 up to 400 V for current peak value n=30 rated value 	190 kVA
 up to 500 V for current peak value n=30 rated value 	230 kVA
 up to 690 V for current peak value n=30 rated value 	330 kVA
• up to 1000 V for current peak value n=30 rated value	310 kVA
short-time withstand current in cold operating state up to	
40 °C	7.494 At Lies minimum eross section age to AC 1 rated value
limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum	7 484 A; Use minimum cross-section acc. to AC-1 rated value
limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum	7 484 A; Use minimum cross-section acc. to AC-1 rated value
limited to 10 s switching at zero current maximum limited to 20 s switching at zero current maximum	5 978 A; Use minimum cross-section acc. to AC-1 rated value 3 765 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum 	2 887 A; Use minimum cross-section acc. to AC-1 rated value
	2 007 A, OSE MINIMUM CLOSS-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	2 000 1/II
at AC-1 maximum	500 1/h
at AC-1 maximum at AC-2 maximum	170 1/h
at AC-2 maximum at AC-3 maximum	420 1/h
at AC-3 maximum at AC-3e maximum	420 1/h
• at AC-4 maximum	130 1/h
Control circuit/ Control	100 1/11
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	AOIDO
at 50 Hz rated value	110 127 V
at 60 Hz rated value	110 127 V
control supply voltage at DC rated value	110 127 V
operating range factor control supply voltage rated value of	110 12.1
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	
 at minimum rated control supply voltage at AC 	
— at 50 Hz	700 VA
— at 60 Hz	700 VA
 at maximum rated control supply voltage at AC 	
— at 60 Hz	830 VA
— at 50 Hz	830 VA
apparent pick-up power of magnet coil at AC	
• at 50 Hz	830 VA
• at 60 Hz	830 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.9
• at 60 Hz	0.9
apparent holding power	0.5.1/4
at minimum rated control supply voltage at DC	8.5 VA
at maximum rated control supply voltage at DC	10 VA
apparent holding power	
at minimum rated control supply voltage at AC	701/4
— at 50 Hz	7.6 VA
— at 60 Hz ■ at maximum rated control supply voltage at AC	7.6 VA

— at 50 Hz	9.2 VA	
— at 60 Hz	9.2 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	920 W	
holding power of magnet coil at DC	10 W	
closing delay		
• at AC	45 100 ms	
• at DC	45 100 ms	
opening delay		
• at AC	60 100 ms	
• at DC	60 100 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		
• 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	1A	
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	6 A 3 A	
at 175 V rated value at 125 V rated value	2 A	
at 220 V rated value	1A	
at 600 V rated value	1 A 0.15 A	
operational current at DC-13	0.13 A	
at 24 V rated value	10 A	
at 48 V rated value	2 A 2 A	
at 60 V rated value		
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		
• at 480 V rated value	477 A	
at 600 V rated value	472 A	
yielded mechanical performance [hp]		
• for 3-phase AC motor		
— at 200/208 V rated value	150 hp	
— at 220/230 V rated value	200 hp	
— at 460/480 V rated value	400 hp	
— at 575/600 V rated value	500 hp	
contact rating of auxiliary contacts according to UL	A600 / Q600	
Short-circuit protection		
design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V	C characteristic: 10 A; 0.4 kA	
design of the fuse link		
 for short-circuit protection of the main circuit 		
 — with type of coordination 1 required 	gG: 630 A (690 V, 100 kA)	
— with type of assignment 2 required	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50	
	kA)	

• for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)	
nstallation/ mounting/ dimensions		
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back	
fastening method side-by-side mounting	Yes	
fastening method	screw fixing	
height	214 mm	
width	160 mm	
depth	225 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	20 mm	
— forwards	20 mm	
— upwards — downwards	10 mm	
— downwards — at the side	10 mm	
onnections/ Terminals	10 111111	
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 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	
• finely stranded with core end processing	0.5 2.5 mm²	
type of connectable conductor cross-sections		
• for auxiliary contacts		
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 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	
afety related data		
product function		
 mirror contact according to IEC 60947-4-1 	Yes	
 positively driven operation according to IEC 60947-5-1 	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 31920	100 FIT	
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	cording to IEC 60529 finger-safe, for vertical contact from the front with box terminal/cover	
Approvals Certificates		



General Product Approval











EMV

Functional Saftey Test Certificates Marine / Shipping

Type Examination Cer**tificate**

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

Type Test Certificates/Test Report

Miscellaneous





Marine / Shipping other







Miscellaneous

Confirmation

Confirmation

Environment other Railway

Miscellaneous

Special Test Certific-





Environmental Con**firmations**

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=3RT1076-6AF36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1076-6AF36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-6AF36

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

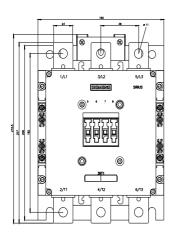
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1076-6AF36&lang=en

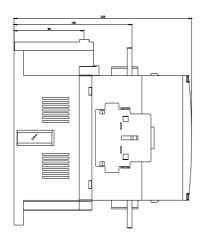
Characteristic: Tripping characteristics, I2t, Let-through current

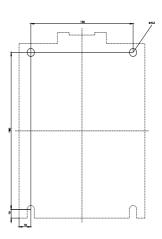
https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-6AF

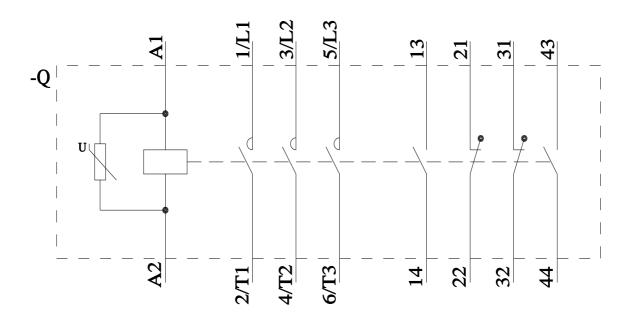
Further characteristics (e.g. electrical endurance, switching frequency)

 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RT1076-6AF36\&objecttype=14\&gridview=view1}$









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