## **SIEMENS**

Data sheet 3RT1055-6AP36

SIRIUS





power contactor, AC-3e/AC-3 150 A, 75 kW / 400 V AC (50-60 Hz) / DC Uc: 220-240 V 3-pole, auxiliary contacts 2 NO + 2 NC drive: conventional main circuit: busbar control and auxiliary circuit: screw terminal



product brand name	SINIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S6
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>	27 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	9 W
<ul> <li>without load current share typical</li> </ul>	5.2 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
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	500 V
surge voltage resistance	
of main circuit rated value	8 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	8,5g / 5 ms, 4,2g / 10 ms
• at DC	8,5g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	13,4g / 5 ms, 6,5g / 10 ms
• at DC	13,4g / 5 ms, 6,5g / 10 ms
mechanical service life (operating cycles)	
of contactor typical	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	05/01/2012
SVHC substance name	Lead - 7439-92-1
Weight	3.32 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m

ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	379 kg
global warming potential [CO2 eq] during manufacturing	17 kg
global warming potential [CO2 eq] during sales	0.901 kg
global warming potential [CO2 eq] during operation	363 kg
global warming potential [CO2 eq] after end of life	-2.28 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	
<ul> <li>at AC-3 rated value maximum</li> </ul>	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	185 A
<ul> <li>at AC-1</li> <li>up to 690 V at ambient temperature 40 °C rated</li> </ul>	185 A
value — up to 690 V at ambient temperature 60 °C rated	160 A
value  — up to 1000 V at ambient temperature 40 °C rated	90 A
value — up to 1000 V at ambient temperature 60 °C rated value	90 A
• at AC-3	
— at 400 V rated value	150 A
— at 500 V rated value	150 A
— at 690 V rated value	150 A
— at 1000 V rated value	65 A
• at AC-3e	
— at 400 V rated value	150 A
— at 500 V rated value	150 A
— at 690 V rated value	150 A
— at 1000 V rated value	65 A
• at AC-4 at 400 V rated value	132 A
• at AC-5a up to 690 V rated value	162 A
• at AC-5b up to 400 V rated value	124 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	150 A
— up to 400 V for current peak value n=20 rated value	150 A
— up to 500 V for current peak value n=20 rated value	150 A
— up to 690 V for current peak value n=20 rated value	150 A
— up to 1000 V for current peak value n=20 rated value  a et AC 66	65 A
• at AC-6a	105 A
— up to 230 V for current peak value n=30 rated value	105 A
— up to 400 V for current peak value n=30 rated value	105 A
— up to 500 V for current peak value n=30 rated value	105 A
<ul> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> </ul>	105 A 65 A
minimum cross-section in main circuit at maximum AC-1 rated value	95 mm²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	68 A

• at 690 V rated value	57 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	160 A
— at 60 V rated value	160 A
— at 110 V rated value	18 A
— at 220 V rated value	3.4 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.5 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	160 A
— at 60 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	20 A
— at 440 V rated value	3.2 A
— at 600 V rated value	1.6 A
with 3 current paths in series at DC-1	400 A
— at 24 V rated value	160 A
— at 60 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 A
— at 440 V rated value	11.5 A
— at 600 V rated value	4 A
at 1 current path at DC-3 at DC-5	400 A
— at 24 V rated value	160 A
— at 60 V rated value	7.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.17 A
— at 600 V rated value	0.12 A
with 2 current paths in series at DC-3 at DC-5     at 24 V reted value.	160 A
— at 24 V rated value — at 60 V rated value	160 A 160 A
— at 110 V rated value	160 A
— at 220 V rated value	2.5 A
— at 440 V rated value	0.65 A
— at 600 V rated value	0.37 A
with 3 current paths in series at DC-3 at DC-5	U.SI A
— at 24 V rated value	160 A
— at 60 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
• at AC-3	
— at 230 V rated value	45 kW
— at 400 V rated value	75 kW
— at 500 V rated value	90 kW
— at 690 V rated value	132 kW
— at 1000 V rated value	90 kW
• at AC-3e	
— at 230 V rated value	45 kW
— at 400 V rated value	75 kW
— at 500 V rated value	90 kW
— at 690 V rated value	132 kW
— at 1000 V rated value	90 kW
operating power for approx. 200000 operating cycles at AC-	
• at 400 V rated value	38 kW
at 690 V rated value	55 kW
operating apparent power at AC-6a	

• up to 230 V for current peak value n=20 rated value	60 kVA
• up to 400 V for current peak value n=20 rated value	100 kVA
• up to 500 V for current peak value n=20 rated value	130 kVA
• up to 690 V for current peak value n=20 rated value	170 kVA
• up to 1000 V for current peak value n=20 rated value	110 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	40 kVA
• up to 400 V for current peak value n=30 rated value	70 kVA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	90 kVA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	120 kVA
<ul> <li>up to 1000 V for current peak value n=30 rated value</li> </ul>	110 kVA
short-time with stand current in cold operating state up to 40 $^{\circ}\text{C}$	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	2 727 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	1 831 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	1 300 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 30 s switching at zero current maximum	850 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum	703 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	800 1/h
• at AC-2 maximum	300 1/h
at AC-3 maximum	750 1/h
• at AC-3e	
— maximum	750 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	000 040 14
at 50 Hz rated value	220 240 V
at 60 Hz rated value  Approximately control country to the part of the pa	220 240 V
control supply voltage at DC rated value	220 240 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	1.1
• 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>apparent pick-up power</li><li>at minimum rated control supply voltage at AC</li></ul>	
	250 VA
at minimum rated control supply voltage at AC	250 VA 250 VA
at minimum rated control supply voltage at AC     — at 50 Hz	
<ul> <li>at minimum rated control supply voltage at AC</li> <li>— at 50 Hz</li> <li>— at 60 Hz</li> </ul>	
<ul> <li>at minimum rated control supply voltage at AC         <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at maximum rated control supply voltage at AC</li> </ul>	250 VA
<ul> <li>at minimum rated control supply voltage at AC         <ul> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul> </li> <li>at maximum rated control supply voltage at AC         <ul> <li>at 60 Hz</li> </ul> </li> </ul>	250 VA 300 VA
at minimum rated control supply voltage at AC  at 50 Hz  at 60 Hz  at 60 Hz  at 60 Hz  at 50 Hz  at 50 Hz	250 VA 300 VA
at minimum rated control supply voltage at AC  at 50 Hz  at 60 Hz  at maximum rated control supply voltage at AC  at 60 Hz  at 50 Hz  apparent pick-up power of magnet coil at AC	250 VA 300 VA 300 VA
at minimum rated control supply voltage at AC  at 50 Hz  at 60 Hz  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	250 VA 300 VA 300 VA
at minimum rated control supply voltage at AC  at 50 Hz  at 60 Hz  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	250 VA 300 VA 300 VA
at minimum rated control supply voltage at AC  at 50 Hz  at 60 Hz  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  inductive power factor with closing power of the coil	250 VA 300 VA 300 VA 300 VA 300 VA
at minimum rated control supply voltage at AC  at 50 Hz  at 60 Hz  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  inductive power factor with closing power of the coil  at 50 Hz	250 VA 300 VA 300 VA 300 VA 300 VA 0.9
at minimum rated control supply voltage at AC  — at 50 Hz — at 60 Hz  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  inductive power factor with closing power of the coil  at 50 Hz  at 60 Hz  at 60 Hz	250 VA 300 VA 300 VA 300 VA 300 VA 0.9
at minimum rated control supply voltage at AC  — at 50 Hz — at 60 Hz  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  inductive power factor with closing power of the coil  at 50 Hz  at 60 Hz  apparent holding power	250 VA 300 VA 300 VA 300 VA 300 VA 0.9
at minimum rated control supply voltage at AC  — at 50 Hz — at 60 Hz  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  inductive power factor with closing power of the coil  at 50 Hz  at 60 Hz  at 60 Hz  apparent holding power  at minimum rated control supply voltage at DC	250 VA 300 VA 300 VA 300 VA 300 VA 0.9 0.9
at minimum rated control supply voltage at AC  — at 50 Hz — at 60 Hz  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  inductive power factor with closing power of the coil  at 50 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	250 VA 300 VA 300 VA 300 VA 300 VA 0.9 0.9

at 00 112 at 50 112 at	-4.00 11-	4.0.1/4
	— at 60 Hz	4.8 VA
midutive power factor with the holding power of the coll		
Inductive power factor with the holding power of the coil	*****	
		5.8 VA
• at 60 Hz   Closing power of magnet coil at DC		
Colsing power of magnet coil at DC	• at 50 Hz	0.8
Action   A	at 60 Hz	0.8
Closing delay	closing power of magnet coil at DC	360 W
	holding power of magnet coil at DC	5.2 W
• et al DC  opening delay  • at AC  • at DC  •	closing delay	
opening delay	• at AC	20 95 ms
* at AC	• at DC	20 95 ms
arcing time 10	opening delay	
arcing time	• at AC	
Control version of the switch operating mechanism	• at DC	40 60 ms
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-15 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 400 V rated value at 500 V rated value at 500 V rated value bereational current at DC-12 at 24 V rated value at 800 V rated value bereational current at DC-12 at 24 V rated value at 80 V rated value at 80 V rated value at 80 V rated value at 125 V rated value at 125 V rated value at 125 V rated value at 126 V rated value at 126 V rated value at 127 V rated value at 128 V rated value at 129 V rated value at 129 V rated value at 120 V rated value at 125 V rated value at 126 V rated value at 127 V rated value at 128 V rated value at 128 V rated value at 129 V rated value at 129 V rated value at 120 V rated value at 120 V rated value at 125 V rated value at 125 V rated value at 126 V rated value at 127 V rated value at 128 V rated value at 129 V rated value at 129 V rated value at 129 V rated value at 120 V rated value		10 15 ms
number of NC contacts for auxiliary contacts instantaneous		Standard A1 - A2
Contact   Contacts	Auxiliary circuit	
contact   cont		2
operational current at AC-15		2
al 230 V rated value	operational current at AC-12 maximum	10 A
	operational current at AC-15	
• at 500 V rated value 1 A  • at 690 V rated value 1 A  operational current at DC-12  • at 24 V rated value 6 A • at 48 V rated value 6 A • at 60 V rated value 6 A • at 60 V rated value 6 A • at 110 V rated value 2 A • at 125 V rated value 1 A • at 220 V rated value 1 A • at 220 V rated value 1 A • at 24 V rated value 1 A • at 24 V rated value 2 A • at 24 V rated value 10 A • at 24 V rated value 2 A • at 24 V rated value 10 A • at 48 V rated value 2 A • at 60 V rated value 2 A • at 60 V rated value 10 A • at 48 V rated value 2 A • at 60 V rated value 1 A • at 125 V rated value 1 A • at 125 V rated value 1 A • at 126 V rated value 1 A • at 127 V rated value 1 A • at 128 V rated value 1 A • at 128 V rated value 1 A • at 129 V rated value 1 A • at 600 V rated value 1 A	• at 230 V rated value	6 A
• at 690 V rated value	<ul> <li>at 400 V rated value</li> </ul>	3 A
operational current at DC-12	<ul> <li>at 500 V rated value</li> </ul>	2 A
	at 690 V rated value	1 A
• at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 1220 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 800 V rated value • at 480 V rated value • at 480 V rated value • at 480 V rated value • at 300 V rated value • at 480 V rated value • at 200 V rated value • at 200 V rated value • at 600 V rated value • at 200 V rated value • at 200 V rated value • at 600 V rated value	operational current at DC-12	
• at 60 V rated value • at 110 V rated value • at 110 V rated value • at 1220 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 80 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 1220 V rated value • at 1220 V rated value • at 220 V rated value • at 800 V rated value • at 800 V rated value • at 800 V rated value • at 600 V rated value • at 200/230 V rated value • for 3-phase AC motor • at 200/230 V rated value • for 3-phase AC motor • at 200/230 V rated value • for 3-phase AC motor • at 200/230 V rated value • for 3-phase AC motor • at 200/230 V rated value • for 3-phase AC motor • at 200/230 V rated value • for 3-phase AC motor • at 600 V rated value • for 3-phase AC motor • at 600 V rated value • for 3-phase AC motor • at 600 V rated value • for 3-phase AC motor • at 600 V rated value • for 3-phase AC motor • at 600 V rated value • for 3-phase AC motor • at 600 V rated value • for 3-phase AC motor • at 600 V rated value • for 3-phase AC motor • at 600 V rated value • for 3-phase AC motor	• at 24 V rated value	10 A
• at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value  operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 280 V rated value • at 280 V rated value • at 800 V rated value • at 480 V rated value • at 600 V rated value • for 3-phase AC motor • at 220/230 V rated value • for 4-phase AC motor • at 220/230 V rated value • 60 hp • at 220/230 V rated value • 60 hp • at 460/480 V rated value • at 67-5600 V rated value • at 6800 V G600  Short-circuit protection design of the miniature circuit breaker for short-circuit protection  C characteristic: 10 A; 0.4 kA	• at 48 V rated value	6 A
• at 125 V rated value	<ul> <li>at 60 V rated value</li> </ul>	6 A
• at 220 V rated value • at 600 V rated value • at 600 V rated value  operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value  ontact reliability of auxiliary contacts  I faulty switching per 100 million (17 V, 1 mA)  ULICSA ratings  full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value  156 A • at 600 V rated value  i for single-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 40/480 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 670/600 C characteristic: 10 A; 0.4 KA	<ul> <li>at 110 V rated value</li> </ul>	3 A
• at 600 V rated value  operational current at DC-13  • at 24 V rated value  • at 48 V rated value  • at 100 V rated value  • at 110 V rated value  • at 125 V rated value  • at 220 V rated value  • at 200 V rated value  • at 600 V rated value  • at 800 V rated value  • at 230 V rated value  • at 230 V rated value  • for single-phase AC motor  — at 230 V rated value  • for 3-phase AC motor  — at 200/208 V rated value  • at 60/480 V rated value  • 60 hp  — at 460/480 V rated value  — at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection  C characteristic: 10 A; 0.4 kA	• at 125 V rated value	2 A
operational current at DC-13  • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 230 V rated value • for single-phase AC motor • at 230 V rated value • for 3-phase AC motor • at 230 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 60/480 V rated value • 50 hp • at 200/230 V rated value • 50 hp • at 575/600 V rated value • 125 hp • at 575/600 V rated value • Contact rating of auxiliary contacts according to UL  Short-circuit protection design of the miniature circuit breaker for short-circuit protection  C characteristic: 10 A; 0.4 kA	<ul> <li>at 220 V rated value</li> </ul>	1 A
at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 22 A at 1600 V rated value at 220 V rated value at 600 V rated value  o.1 A  contact reliability of auxiliary contacts  I 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 at 600 V rated value at 230 V rated value at 240 V rated value at 240 V rated value at 250 V	at 600 V rated value	0.15 A
<ul> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>1 A</li> <li>at 200 V rated value</li> <li>1 A</li> <li>at 600 V rated value</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> <li>UL/CSA ratings</li> <li>full-load current (FLA) for 3-phase AC motor</li> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>for single-phase AC motor</li> <li>at 230 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>for hp</li> <li>at 200/208 V rated value</li> <li>60 hp</li> <li>at 575/600 V rated value</li> <li>150 hp</li> <li>contact rating of auxiliary contacts according to UL</li> <li>Short-circuit protection</li> <li>design of the miniature circuit breaker for short-circuit protection</li> <li>C characteristic: 10 A; 0.4 kA</li> </ul>	operational current at DC-13	
<ul> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>full-load current (FLA) for 3-phase AC motor</li> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>for single-phase AC motor</li> <li>at 230 V rated value</li> <li>for single-phase AC motor</li> <li>at 200/208 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>for hp</li> <li>at 460/480 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> <li>50 hp</li> <li>contact rating of auxiliary contacts according to UL</li> <li>Short-circuit protection</li> <li>design of the miniature circuit breaker for short-circuit protection</li> <li>C characteristic: 10 A; 0.4 kA</li> </ul>	• at 24 V rated value	10 A
at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 600 V rated value at 80 V rated value at 230 V rated value bfor single-phase AC motor at 230 V rated value at 230 V rated value at 230 V rated value bfor 3-phase AC motor at 200/208 V rated value at 200/208 V rated value at 200/208 V rated value bfor 3-phase AC motor at 200/208 V rated value at 250 hp at 270/200 V rated value at 270/200 V rated value bfor 3-phase AC motor at 270/200 V rated value bfor 3-phase AC motor at 270/200 V rated value bfor 3-phase AC motor at 270/200 V rated value bfor 3-phase AC motor at 270/200 V rated value bfor 3-phase AC motor at 270/200 V rated value bfor 3-phase AC motor at 270/200 V rated value bfor 3-phase AC motor at 270/200 V rated value bfor 3-phase AC motor at 270/200 V rated value bfor 3-phase AC motor at 270/200 V rated value bfor 4-phase AC motor at 270/200 V rated value bfor 4-phase AC motor at 270/200 V rated value bfor 4-phase AC motor at 280/200 V rated value bfor 4-phase AC motor at 280/200 V rated value bfor 4-phase AC motor at 280/200 V rated value bfor 4-phase AC motor at 280/200 V rated value bfor 4-phase AC motor at 280/200 V rated value bfor 4-phase AC motor at 280/200 V rated value bfor 4-phase AC motor at 280/200 V rated value bfor 4-phase AC motor at 280/200 V rated value bfor 4-phase AC motor at 280/200 V rated value bfor 4-phase AC motor at 280/200 V rated value bfor 4-phase AC motor at 280/200 V rated value bfor 4-phase AC motor bfor 5-phase	<ul> <li>at 48 V rated value</li> </ul>	2 A
at 125 V rated value at 220 V rated value at 600 V rated value  outside the first of the second of the miniature circuit protection  at 125 V rated value  outside the second of the miniature circuit brotection  at 125 V rated value  outside the second outside the miniature circuit brotection  outside the second outside the miniature circuit brotection  outside the second outside the second outside the miniature circuit breaker for short-circuit protection  outside the second outside the second outside the miniature circuit breaker for short-circuit protection  outside the second outside outside the second outside out	<ul> <li>at 60 V rated value</li> </ul>	2 A
at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts  1 faulty switching per 100 million (17 V, 1 mA)  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  at 480 V rated value to rated value to rated value  for single-phase AC motor  at 230 V rated value for 3-phase AC motor  at 230 V rated value  for 3-phase AC motor  at 200/208 V rated value  at 460/480 V rated value  at 460/480 V rated value  at 460/480 V rated value  at 55 hp  at 460/480 V rated value  at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection  C characteristic: 10 A; 0.4 kA	<ul> <li>at 110 V rated value</li> </ul>	1 A
at 600 V rated value  contact reliability of auxiliary contacts  1 faulty switching per 100 million (17 V, 1 mA)  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  at 480 V rated value  at 600 V rated value  for single-phase AC motor  at 230 V rated value  for 3-phase AC motor  at 230 V rated value  for 3-phase AC motor  at 200/208 V rated value  for 3-phase AC motor  at 220/230 V rated value  for hp  at 460/480 V rated value  at 460/480 V rated value  at 460/480 V rated value  for hp  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection  C characteristic: 10 A; 0.4 kA	• at 125 V rated value	0.9 A
contact reliability of auxiliary contacts  1 faulty switching per 100 million (17 V, 1 mA)  LICSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  144 A  yielded mechanical performance [hp]  • for single-phase AC motor  — at 230 V rated value  • for 3-phase AC motor  — at 200/208 V rated value  50 hp  — at 220/230 V rated value  60 hp  — at 460/480 V rated value  150 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection  C characteristic: 10 A; 0.4 kA	• at 220 V rated value	0.3 A
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  144 A  yielded mechanical performance [hp]  • for single-phase AC motor  — at 230 V rated value  • for 3-phase AC motor  — at 200/208 V rated value  50 hp  — at 220/230 V rated value  — at 460/480 V rated value  — at 460/480 V rated value  — at 575/600 V rated value  to hp  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection  C characteristic: 10 A; 0.4 kA	• at 600 V rated value	0.1 A
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  144 A  yielded mechanical performance [hp]  • for single-phase AC motor  — at 230 V rated value  • for 3-phase AC motor  — at 200/208 V rated value  50 hp  — at 220/230 V rated value  — at 460/480 V rated value  — at 460/480 V rated value  — at 575/600 V rated value  150 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection  C characteristic: 10 A; 0.4 kA		1 faulty switching per 100 million (17 V, 1 mA)
at 480 V rated value  at 600 V rated value  yielded mechanical performance [hp]  for single-phase AC motor  — at 230 V rated value  for 3-phase AC motor  — at 200/208 V rated value  50 hp  — at 220/230 V rated value  — at 460/480 V rated value  — at 460/480 V rated value  — at 575/600 V rated value  125 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection  C characteristic: 10 A; 0.4 kA	UL/CSA ratings	
at 600 V rated value  yielded mechanical performance [hp]  for single-phase AC motor  — at 230 V rated value  for 3-phase AC motor  — at 200/208 V rated value  50 hp  — at 220/230 V rated value  — at 460/480 V rated value  — at 460/480 V rated value  — at 575/600 V rated value  150 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection  C characteristic: 10 A; 0.4 kA	full-load current (FLA) for 3-phase AC motor	
yielded mechanical performance [hp]  • for single-phase AC motor  — at 230 V rated value  • for 3-phase AC motor  — at 200/208 V rated value  — at 220/230 V rated value  — at 460/480 V rated value  — at 575/600 V rated value  tontact rating of auxiliary contacts according to UL  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection  C characteristic: 10 A; 0.4 kA	• at 480 V rated value	156 A
for single-phase AC motor         — at 230 V rated value         for 3-phase AC motor         — at 200/208 V rated value         — at 220/230 V rated value         — at 460/480 V rated value         — at 575/600 V rated value  Contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection  C characteristic: 10 A; 0.4 kA	at 600 V rated value	144 A
— at 230 V rated value  • for 3-phase AC motor  — at 200/208 V rated value 50 hp  — at 220/230 V rated value 60 hp  — at 460/480 V rated value 125 hp  — at 575/600 V rated value 150 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection  C characteristic: 10 A; 0.4 kA	yielded mechanical performance [hp]	
for 3-phase AC motor         — at 200/208 V rated value	<ul> <li>for single-phase AC motor</li> </ul>	
- at 200/208 V rated value 50 hp - at 220/230 V rated value 60 hp - at 460/480 V rated value 125 hp - at 575/600 V rated value 150 hp  contact rating of auxiliary contacts according to UL A600 / Q600  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection C characteristic: 10 A; 0.4 kA	— at 230 V rated value	30 hp
- at 220/230 V rated value 60 hp - at 460/480 V rated value 125 hp - at 575/600 V rated value 150 hp  contact rating of auxiliary contacts according to UL A600 / Q600  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection C characteristic: 10 A; 0.4 kA	• for 3-phase AC motor	
— at 460/480 V rated value 125 hp — at 575/600 V rated value 150 hp  contact rating of auxiliary contacts according to UL A600 / Q600  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection C characteristic: 10 A; 0.4 kA	— at 200/208 V rated value	50 hp
— at 575/600 V rated value 150 hp  contact rating of auxiliary contacts according to UL A600 / Q600  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection C characteristic: 10 A; 0.4 kA	— at 220/230 V rated value	60 hp
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection  C characteristic: 10 A; 0.4 kA	— at 460/480 V rated value	125 hp
Short-circuit protection  design of the miniature circuit breaker for short-circuit protection  C characteristic: 10 A; 0.4 kA	— at 575/600 V rated value	150 hp
design of the miniature circuit breaker for short-circuit protection  C characteristic: 10 A; 0.4 kA	contact rating of auxiliary contacts according to UL	A600 / Q600
	Short-circuit protection	
		C characteristic: 10 A; 0.4 kA

design of the fuse link	
for short-circuit protection of the main circuit	
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 355 A (690 V, 100 kA)
— with type of coordination 2 required	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA)
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	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 side-by-side mounting	Yes
fastening method	screw fixing
height	172 mm
width	120 mm
depth	170 mm
required spacing	
with side-by-side mounting	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded parts	·
— forwards	20 mm
	10 mm
— upwards	
— at the side	10 mm
— downwards	10 mm
• for live parts	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	Connection bar
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals
of magnet coil	Screw-type terminals
width of connection bar	17 mm
thickness of connection bar	3 mm
diameter of holes	9 mm
number of holes	1
type of connectable conductor cross-sections	
<ul> <li>for AWG cables for main contacts</li> </ul>	4 250 kcmil
connectable conductor cross-section for main contacts	
• stranded	25 120 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	18 14
section for auxiliary contacts	· · · · · ·
Safety 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
Compounts for add datast-foldiou dwitterfield OFF	100

service life maximum	20 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	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	finger-safe, for vertical contact from the front with box terminal/cover
Approvals Certificates	
0 10 1 (4 1	

General Product Approval









<u>KC</u>



EMV Functional Saftey Test Certificates Maritime application



Type Examination Certificate

Special Test Certificate

Type Test Certificates/Test Report

Miscellaneous



Maritime application other









**Miscellaneous** 



other Railway Environment

Confirmation

Confirmation

Miscellaneous

Special Test Certificate

Siemens EcoTech



Environment

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=3RT1055-6AP36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1055-6AP36

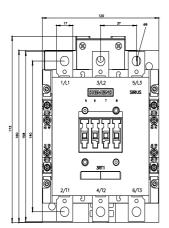
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

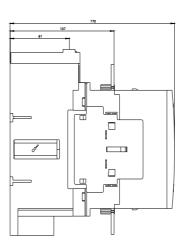
https://support.industry.siemens.com/cs/ww/en/ps/3RT1055-6AP36

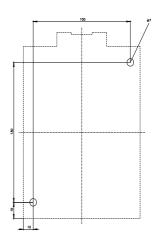
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax">http://www.automation.siemens.com/bilddb/cax</a> de.aspx?mlfb=3RT1055-6AP36&lang=en

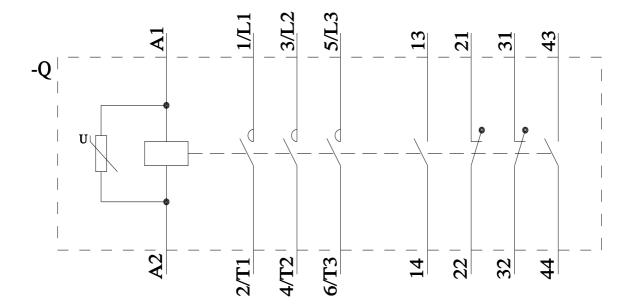
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT1055-6AP36/c

Further characteristics (e.g. electrical endurance, switching frequency)
<a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1055-6AP36&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1055-6AP36&objecttype=14&gridview=view1</a>









last modified: 5/8/2025 🖸