# **SIEMENS**

Data sheet 3RT1054-6AU36



power contactor, AC-3e/AC-3 115 A, 55 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 brand name	SIRIUS
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>	21 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	7 W
without load current share typical	5.2 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
of auxiliary circuit with degree of pollution 3 rated value	500 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	8,5g / 5 ms, 4,2g / 10 ms
• at DC	8,5g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	13,4g / 5 ms, 6,5g / 10 ms
• at DC	13,4g / 5 ms, 6,5g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
of the contactor with added auxiliary switch block typical	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-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 %

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	160 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	160 A
— up to 690 V at ambient temperature 60 °C rated value	140 A
— up to 1000 V at ambient temperature 40 °C rated value	80 A
— up to 1000 V at ambient temperature 60 °C rated value	80 A
• at AC-3	445.4
— at 400 V rated value	115 A
— at 500 V rated value	115 A
— at 690 V rated value	115 A
— at 1000 V rated value	53 A
• at AC-3e	
— at 400 V rated value	115 A
— at 500 V rated value	115 A
— at 690 V rated value	115 A
— at 1000 V rated value	53 A
• at AC-4 at 400 V rated value	97 A
• at AC-5a up to 690 V rated value	140 A
• at AC-5b up to 400 V rated value	95 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	115 A
— up to 400 V for current peak value n=20 rated value	115 A
— up to 500 V for current peak value n=20 rated value	115 A
— up to 690 V for current peak value n=20 rated value	115 A
— up to 1000 V for current peak value n=20 rated value	53 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	98 A
— up to 400 V for current peak value n=30 rated value	98 A
— up to 500 V for current peak value n=30 rated value	98 A
— up to 690 V for current peak value n=30 rated value	98 A
— up to 1000 V for current peak value n=30 rated value	53 A
minimum cross-section in main circuit at maximum AC-1 rated value	70 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	54 A
at 690 V rated value	48 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
	0.5 A
— at 600 V rated value	
<ul><li>— at 600 V rated value</li><li>with 2 current paths in series at DC-1</li></ul>	
	160 A
• with 2 current paths in series at DC-1	160 A 160 A

at 220 V rated value	20.4
— 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	
— 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 rated value	160 A
— at 60 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	2.5 A
— at 440 V rated value	0.65 A
— at 600 V rated value	0.37 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</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	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	37 kW
— at 400 V rated value	55 kW
— at 500 V rated value	75 kW
— at 690 V rated value	110 kW
— at 1000 V rated value	75 kW
• at AC-3e	
— at 230 V rated value	37 kW
— at 400 V rated value	55 kW
— at 500 V rated value	75 kW
— at 690 V rated value	110 kW
— at 1000 V rated value	75 kW
operating power for approx. 200000 operating cycles at AC-	
4	00 144
at 400 V rated value     at 600 V rated value	29 kW
at 690 V rated value	48 kW
operating apparent power at AC-6a	40,000 kV/A
up to 230 V for current peak value n=20 rated value	40 000 kVA
up to 400 V for current peak value n=20 rated value	80 000 VA
• up to 500 V for current peak value n=20 rated value	100 000 VA
up to 690 V for current peak value n=20 rated value	130 000 VA
up to 1000 V for current peak value n=20 rated value	90 000 VA
operating apparent power at AC-6a	20,000 V/A
up to 230 V for current peak value n=30 rated value	30 000 VA
up to 400 V for current peak value n=30 rated value	60 000 VA
up to 500 V for current peak value n=30 rated value	80 000 VA
up to 690 V for current peak value n=30 rated value      up to 1000 V for current peak value n=20 rated value	110 000 VA
up to 1000 V for current peak value n=30 rated value      chart time withstand current in cold courting state up to	90 000 VA
short-time withstand current in cold operating state up to 40 °C	

**at AC 2 000 1/h   **at DC 2 000 1/h   **at DC 2 000 1/h   **at AC-2 maximum		
Imited to 10 s switching at zero current maximum	<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	2 565 A; Use minimum cross-section acc. to AC-1 rated value
Initial to 30 s switching at zero current maximum   729 A; Use minimum cross-section acc. to AC-1 rated value   757 A; Use minimum cross-section acc, to AC-1 at AC-	<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	1 654 A; Use minimum cross-section acc. to AC-1 rated value
■ Immined to 60 s switching at zero current maximum         572 Å; Use minimum cross-section acc. to AC-1 reled value           ■ at AC         2 000 1/h           ■ at DC         2 000 1/h           ■ at DC         2 000 1/h           ■ at AC-1 maximum         800 1/h           ■ at AC-2 maximum         1 000 1/h           ■ at AC-3 e maximum         1 000 1/h           ■ at AC-4 maximum         10 00 1/h           ■ at Cac d maximum         10 00 1/h           ■ at Cac d maximum         10 00 1/h           ■ at AC-4 maximum         10 00 1/h           ■ at Cac d maximum         10 00 1/h           ■ at AC-4 maximum         240 277 V           ■ at 50 1/z rated value         240 277 V           * rated value         240 277 V           * rated value         0.8           * at 50 1/z         0.8 1.1           * at 50 1/z         0.8 1.1           * at 60 1/z         0.8 1.1           * at 50 1/z         0.9 1.1           * at 50 1/z         0.9	<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	1 170 A; Use minimum cross-section acc. to AC-1 rated value
Seal switching frequency	<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	729 A; Use minimum cross-section acc. to AC-1 rated value
Seal switching frequency	<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	572 A; Use minimum cross-section acc. to AC-1 rated value
**at AC 2 000 1/h   **at DC 2 000 1/h   **at DC 2 000 1/h   **at AC-2 maximum	no-load switching frequency	
rating frequency  • at AC-1 maximum  • at AC-3 maximum  • at AC-4 maximum  • at AC-4 maximum  • at AC-5 maximum  • at AC-4 maximum  • at AC-5 maximum  • at AC-4 maximum  • at Or-4 maximum  • at Supply voltage at AC  • at Supply voltage rated value of a maximum and a maximum		2 000 1/h
rating frequency  • at AC-1 maximum  • at AC-3 maximum  • at AC-4 maximum  • at AC-4 maximum  • at AC-5 maximum  • at AC-4 maximum  • at AC-5 maximum  • at AC-4 maximum  • at Or-4 maximum  • at Supply voltage at AC  • at Supply voltage rated value of a maximum and a maximum	• at DC	2 000 1/h
• at AC-1 maximum		
		800 1/h
■ at AC-4 maximum  ol circuit/ Control  ol of violtage of the control supply voltage  trol supply voltage at AC  ■ at 50 Hz rated value  ■ at 60 Hz rated value  ■ at 60 Hz rated value  ■ rating range factor control supply voltage rated value of gnet coil at DC  ■ initial value  ■ initial value  ■ at 50 Hz  ■ at 50 Hz  ■ at 50 Hz  ■ at 50 Hz  ■ at 60 Hz  ■ a		
AC/DC		
trol supply voltage at AC  at 50 Hz rated value  at 60 Hz rated value  at 50 Hz  by at 60 Hz  at 50 Hz  at 50 Hz  at 50 Hz  at 50 Hz  by at 60 Hz  at 50 Hz  at 50 Hz  by at 60 Hz  at 50 Hz  at 50 Hz  at 50 Hz  by at 60 Hz  by at 60 Hz  at 60 Hz  by at 60 Hz  at 60 Hz  at 60 Hz  by at 60 Hz  at 60 Hz  by at 6		100 1/11
trol supply voltage at AC  at 50 Hz rated value  240 277 V  trol supply voltage at DC  at add value  240 277 V  trol supply voltage at DC  at add value  240 277 V  trol supply voltage at DC  at add value  240 277 V  trol supply voltage at DC  at add value  240 277 V   at als 0 Hz  at both 2 277 V  at als 0 Hz  at 10 277 V  at als 0 Hz  at 10 277 V  at 10 277		ACIDO
■ at 50 Hz rated value     ■ at 60 Hz		AC/DC
• at 60 Hz rated value         240 277 V           trol supply voltage at DC         240 277 V           a rated value         240 277 V           rating range factor control supply voltage rated value of gent coil at DC         0.8           initial value         0.8           full-scale value         1.1           rating range factor control supply voltage rated value of gent coil at AC         0.8 1.1           • at 50 Hz         0.8 1.1           • at 60 Hz         0.8 1.1           ign of the surge suppressor         with varistor           • at 50 Hz         300 VA           • at 50 Hz         300 VA           • at 50 Hz         0.9           • at 60 Hz         0.8           • at 60 Hz         0.9           • at 60 Hz         0.9           • a		040 077.1/
trol supply voltage at DC  • rated value  • rated value  rating range factor control supply voltage rated value of genet coil at DC  • initial value  • initial		
• rated value         240 277 V           rarting range factor control supply voltage rated value of pinet coil at DC         0.8           • full-scale value         1.1           rating range factor control supply voltage rated value of pinet coil at AC         0.8 1.1           • at 50 Hz         0.8 1.1           • at 60 Hz         0.8 1.1           • injury of the surge suppressor         with varistor           arent pick-up power of magnet coil at AC         300 VA           • at 50 Hz         300 VA           • at 60 Hz         0.9           • at 60 Hz         0.9           • at 50 Hz         0.8           • at 50 Hz         0.8           • at 60 Hz         0.9           • at 60 Hz </td <td></td> <td>240 277 V</td>		240 277 V
rating range factor control supply voltage rated value of gnet coil at DC initial value 0.8  • full-scale value 1.1  rating range factor control supply voltage rated value of gnet coil at AC 295 ms coil at DC 3.00 ms c	control supply voltage at DC	242 ATT V
		240 277 V
e full-scale value  rating range factor control supply voltage rated value of gnet coil at AC  • at 50 Hz • at 60 Hz  ign of the surge suppressor  with varistor  arent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz  at 50 Hz  at 50 Hz  at 50 Hz  outtive power factor with closing power of the coil • at 50 Hz  • at 60 Hz  at 60 Hz  outtive power factor with closing power of the coil • at 50 Hz  • at 60 Hz  at 60 Hz  outtive power of magnet coil at AC • at 50 Hz  • at 60 Hz  at 60 Hz  outtive power factor with the holding power of the coil • at 50 Hz  • at 60 Hz  at 60 Hz  outtive power factor with the holding power of the coil • at 50 Hz  • at 60 Hz  outtive power factor with the holding power of the coil • at 50 Hz  • at 60 Hz  outtive power factor with the holding power of the coil • at 50 Hz  • at 60 Hz  outtive power factor with the holding power of the coil • at 50 Hz  • at 60 Hz  outtive power factor with the holding power of the coil • at 50 Hz  • at 60 Hz  outtive power of magnet coil at DC  outtive power o	operating range factor control supply voltage rated value of magnet coil at DC	
rating range factor control supply voltage rated value of gnet coil at AC  • at 50 Hz • at 60 Hz  ign of the surge suppressor  arent pick-up power of magnet coil at AC  • at 50 Hz • at 60 Hz  • at 50 Hz • at 60 Hz  • at 50 Hz • at 50 Hz • at 50 Hz • at 50 Hz • at 50 Hz • at 50 Hz • at 50 Hz • at 50 Hz • at 50 Hz • at 50 Hz • at 50 Hz • at 60 Hz  • at 50 Hz • at 60 Hz  • at 50 Hz • at 60 Hz  • at 50 Hz • at 60 Hz  • at 50 Hz • at 60 Hz  • at 50 Hz • at 60 Hz  • at 50 Hz • at 60 Hz  • at 50 Hz • at 60 Hz  • at 50 Hz • at 60 Hz  • at 50 Hz • at 60 Hz • at 60 Hz  • at 50 Hz • at 60 Hz • at 6		
ear tool at AC		1.1
• at 60 Hz  lign of the surge suppressor  with varistor  with varistor  at 50 Hz  • at 50 Hz  • at 60 Hz  at 60 Hz  at 60 Hz  • at 60 Hz  at 60 Hz  • at 50 Hz  • at 60 Hz  • at 50 Hz  • at 60 Hz  • at 50 Hz  • at 50 Hz  • at 60 Hz  • at 50 Hz  • at 60 Hz  ling power of magnet coil at DC  sing power of magnet coil at DC  sing delay  • at AC  • at DC  • at	operating range factor control supply voltage rated value of magnet coil at AC	
ign of the surge suppressor arent pick-up power of magnet coil at AC  • at 50 Hz • at 60 Hz  • at 60 Hz  • at 50 Hz • at 60 Hz  • at 50 Hz • at 60 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  • at 50 Hz • at 60 Hz  • at 50 Hz • at 60 Hz  • at 50 Hz • at 60 Hz  • at 50 Hz • at 60 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  • at 50 Hz • at 60 Hz  • at	● at 50 Hz	
arrent pick-up power of magnet coil at AC  at 50 Hz  at 60 Hz  300 VA  at 60 Hz  at 50 Hz  at 50 Hz  at 50 Hz  at 50 Hz  buttive power factor with closing power of the coil  at 50 Hz  at 60 Hz  at 50 Hz  at 50 Hz  at 50 Hz  at 60 Hz  5.8 VA  at 60 Hz  buttive power factor with the holding power of the coil  at 50 Hz  at 50 Hz  buttive power factor with the holding power of the coil  at 50 Hz  buttive power factor with the holding power of the coil  at 60 Hz  buttive power of magnet coil at DC  ding power of magnet coil at DC  ding power of magnet coil at DC  sing delay  at AC  at DC  at AC  40 65 ms  at DC  due to write on the switch operating mechanism  Standard A1 - A2	• at 60 Hz	0.8 1.1
at 50 Hz at 60 Hz at 60 Hz at 60 Hz at 50 Hz at 50 Hz at 50 Hz at 60 Hz at 50 Hz at 60 Hz at 50 Hz at 60 Hz at 50 Hz at 60 Hz at	design of the surge suppressor	with varistor
at 60 Hz  at 50 Hz  at 50 Hz  at 60 Hz  0.9  at 60 Hz  0.9  arent holding power of magnet coil at AC  at 50 Hz  at 60 Hz  5.8 VA  at 60 Hz  5.8 VA  at 60 Hz  6.8 VA  at 60 Hz  6.9 VB  ding power of magnet coil at DC  ding power of magnet coil at DC  ding power of magnet coil at DC  5.2 VV  sing delay  at AC  at AC  40 60 ms  at DC  at DC  40 60 ms  ing time  trol version of the switch operating mechanism  Standard A1 - A2	apparent pick-up power of magnet coil at AC	
at 50 Hz at 50 Hz at 60 Hz at 50 Hz at 60 Hz at 50 Hz at 60 Hz at 50 Hz at 60 Hz at 50 Hz at 50 Hz at 60 Hz at	● at 50 Hz	300 VA
● at 50 Hz ● at 60 Hz ● 0.9  arrent holding power of magnet coil at AC ● at 50 Hz ● at 60 Hz ● at 60 Hz  ● at 50 Hz ● at 60 Hz  ■ at 60 Hz  ■ at 50 Hz ■ at 60 Hz ■ at 50 Hz ■ at 50 Hz ■ at 50 Hz ■ at 60 Hz ■	● at 60 Hz	300 VA
● at 60 Hz  ■ at 50 Hz  ■ at 50 Hz  ■ at 50 Hz  ■ at 60 Hz  ■ at AC  ■ at AC  ■ at DC  ■ at DC  ■ at AC  ■ at AC  ■ at DC  ■ at AC  ■ at	inductive power factor with closing power of the coil	
e at 50 Hz  • at 50 Hz  • at 60 Hz  • at 50 Hz  • at 60 Hz  • at 50 Hz  • at 60 Hz  • at 50 Hz  • at 60 Hz  • at 00 W   ding power of magnet coil at DC  • at AC  • at AC  • at DC  • at AC  • at DC  • at AC  • at DC  • at AC  • at AC  • at AC  • at C  • a	• at 50 Hz	0.9
■ at 50 Hz ■ at 60 Hz ■ at 60 Hz ■ at 50 Hz ■ at 60 Hz	• at 60 Hz	0.9
e at 60 Hz  uctive power factor with the holding power of the coil  e at 50 Hz  e at 60 Hz  0.8  sing power of magnet coil at DC  ding power of magnet coil at DC  sing delay  e at AC  e at DC  at DC  20 95 ms  uning delay  e at AC  e at DC  at DC  40 60 ms  ing time  10 15 ms  strol version of the switch operating mechanism	apparent holding power of magnet coil at AC	
existive power factor with the holding power of the coil  • at 50 Hz  • at 60 Hz  sing power of magnet coil at DC  ding power of magnet coil at DC  sing delay  • at AC  • at DC  • at AC  • at DC  • at	● at 50 Hz	5.8 VA
<ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>5ing power of magnet coil at DC</li> <li>360 W</li> <li>ding power of magnet coil at DC</li> <li>5.2 W</li> <li>sing delay</li> <li>at AC</li> <li>at DC</li> <li>at DC</li> <li>at AC</li> <li>at DC</li> <li>at DC<th>• at 60 Hz</th><th>5.8 VA</th></li></ul>	• at 60 Hz	5.8 VA
e at 60 Hz  sing power of magnet coil at DC  ding power of magnet coil at DC  sing delay  e at AC  e at DC  o at AC  o o	inductive power factor with the holding power of the coil	
sing power of magnet coil at DC  ding power of magnet coil at DC  5.2 W  sing delay  • at AC  • at DC  • at AC  • at DC  • at AC  • at BC	• at 50 Hz	0.8
ding power of magnet coil at DC  sing delay  • at AC  • at DC  • a	• at 60 Hz	0.8
sing delay       20 95 ms         • at DC       20 95 ms         ening delay       40 60 ms         • at DC       40 60 ms         • at DC       40 60 ms         ing time       10 15 ms         strol version of the switch operating mechanism       Standard A1 - A2	closing power of magnet coil at DC	360 W
<ul> <li>at AC</li> <li>at DC</li> <li>20 95 ms</li> <li>ning delay</li> <li>at AC</li> <li>at AC</li> <li>at DC</li> <li>at DC<!--</td--><td>holding power of magnet coil at DC</td><td>5.2 W</td></li></ul>	holding power of magnet coil at DC	5.2 W
● at DC 20 95 ms  ### ining delay  ● at AC 40 60 ms  ● at DC 40 60 ms  ### ing time 10 15 ms  ### itrol version of the switch operating mechanism Standard A1 - A2	closing delay	
eat AC 40 60 ms • at DC 40 60 ms ing time 10 15 ms trol version of the switch operating mechanism Standard A1 - A2	• at AC	20 95 ms
<ul> <li>at AC</li> <li>at DC</li> <li>40 60 ms</li> <li>40 60 ms</li> <li>ing time</li> <li>itrol version of the switch operating mechanism</li> <li>Standard A1 - A2</li> </ul>	• at DC	20 95 ms
<ul> <li>at AC</li> <li>at DC</li> <li>40 60 ms</li> <li>40 60 ms</li> <li>ing time</li> <li>itrol version of the switch operating mechanism</li> <li>Standard A1 - A2</li> </ul>	opening delay	
ing time 10 15 ms strol version of the switch operating mechanism Standard A1 - A2		40 60 ms
trol version of the switch operating mechanism  Standard A1 - A2	• at DC	40 60 ms
trol version of the switch operating mechanism  Standard A1 - A2	arcing time	10 15 ms
	control version of the switch operating mechanism	Standard A1 - A2
iary circuit	Auxiliary circuit	
nber of NC contacts for auxiliary contacts instantaneous 2	number of NC contacts for auxiliary contacts instantaneous contact	2
nber of NO contacts for auxiliary contacts instantaneous 2	number of NO contacts for auxiliary contacts instantaneous contact	2
	operational current at AC-12 maximum	10 A
	·	
	•	6 A
at 230 V rated value      6 A		
		3 A
aber of NC contacts for auxiliary contacts instantaneous tact  aber of NO contacts for auxiliary contacts instantaneous tact  arational current at AC-12 maximum  10 A  arational current at AC-15	at 60 Hz  inductive power factor with the holding power of the coil     at 50 Hz     at 60 Hz  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay     at AC     at DC  opening delay     at AC     at DC  arcing time  control version of the switch operating mechanism  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-15	5.8 VA  0.8  0.8  360 W  5.2 W  20 95 ms  20 95 ms  40 60 ms  40 60 ms  10 15 ms  Standard A1 - A2
	at 230 V rated value	6 A
<ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>2 A</li> </ul>	• at 400 V rated value	

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
<ul> <li>at 60 V rated value</li> </ul>	6 A
<ul> <li>at 110 V rated value</li> </ul>	3 A
<ul> <li>at 125 V rated value</li> </ul>	2 A
at 220 V rated value	1 A
at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	10 A
at 48 V rated value	2 A
at 60 V rated value	2 A
at 110 V rated value	1 A
at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	ridary stricting per 100 million (17 v, 1 m/r)
full-load current (FLA) for 3-phase AC motor	
	194.6
at 480 V rated value	124 A
• at 600 V rated value	125 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 230 V rated value	25 hp
• for 3-phase AC motor	
— at 200/208 V rated value	40 hp
— at 220/230 V rated value	50 hp
— at 460/480 V rated value	100 hp
	405 ha
— at 575/600 V rated value	125 hp
— at 575/600 V rated value contact rating of auxiliary contacts according to UL	A600 / Q600
	·
contact rating of auxiliary contacts according to UL	·
contact rating of auxiliary contacts according to UL Short-circuit protection	·
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link	·
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required	gG: 355 A (690 V, 100 kA) gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit	gG: 355 A (690 V, 100 kA) gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA)
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required	gG: 355 A (690 V, 100 kA) gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required	gG: 355 A (690 V, 100 kA) gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA)
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required	gG: 355 A (690 V, 100 kA) gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA)
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions	gG: 355 A (690 V, 100 kA) gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position	gG: 355 A (690 V, 100 kA) gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method	gG: 355 A (690 V, 100 kA) gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting	gG: 355 A (690 V, 100 kA) gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting height	gG: 355 A (690 V, 100 kA) gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width	gG: 355 A (690 V, 100 kA) gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth	gG: 355 A (690 V, 100 kA) gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing	gG: 355 A (690 V, 100 kA) gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting	gG: 355 A (690 V, 100 kA) gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting  — forwards	gG: 355 A (690 V, 100 kA) gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting  — forwards  — upwards	gG: 355 A (690 V, 100 kA) gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting  — forwards  — upwards  — downwards  — at the side	gG: 355 A (690 V, 100 kA) gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 10 mm
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting  — forwards  — upwards  — downwards  — at the side  • for grounded parts	gG: 355 A (690 V, 100 kA) gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 10 mm 10 mm 10 mm
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting  — forwards  — upwards  — downwards  — at the side  • for grounded parts  — forwards	gG: 355 A (690 V, 100 kA) gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 10 mm 10 mm 10 mm 10 mm
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting  — forwards  — upwards  — downwards  — at the side  • for grounded parts  — forwards  — upwards  — upwards  — upwards	gG: 355 A (690 V, 100 kA) gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm  20 mm 10 mm 0 mm
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting  — forwards  — upwards  — downwards  — at the side  • for grounded parts  — forwards  — upwards  — upwards  — upwards  — at the side  • for grounded parts  — forwards  — upwards  — at the side	gG: 355 A (690 V, 100 kA) gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes  172 mm  120 mm  170 mm  20 mm  10 mm  10 mm  10 mm  10 mm
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting  — forwards  — upwards  — downwards  — at the side  • for grounded parts  — forwards  — upwards  — upwards  — at the side  — downwards  — at the side  — downwards	gG: 355 A (690 V, 100 kA) gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm  20 mm 10 mm 0 mm
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting  — forwards  — upwards  — downwards  — at the side  • for grounded parts  — forwards  — upwards  — at the side  — downwards  — for live parts	gG: 355 A (690 V, 100 kA) gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm  20 mm 10 mm
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting  — forwards  — upwards  — at we side  • for grounded parts  — forwards  — upwards  — at the side  • for grounded parts  — forwards  — at the side  — downwards  — at the side  — downwards  — at the side  — downwards  — at the side  — for live parts  — forwards	gG: 355 A (690 V, 100 kA) gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm  20 mm 10 mm
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting  — forwards  — upwards  — downwards  — at the side  • for grounded parts  — forwards  — upwards  — at the side  — downwards  — for live parts	gG: 355 A (690 V, 100 kA) gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm  20 mm 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
connectable conductor cross-section for main contacts	
stranded	25 120 mm²
connectable conductor cross-section for auxiliary contacts	
<ul> <li>solid or stranded</li> </ul>	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)
<ul> <li>solid or stranded</li> </ul>	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
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	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No
B10 value with high demand rate according to SN 31920	1 000 000
T1 value for proof test interval or service life according to IEC 61508	20 a
protection class IP on the front according to IEC 60529	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
suitability for use	
safety-related switching OFF	Yes

### Certificates/ approvals

#### **General Product Approval**





Confirmation



<u>KC</u>



Functional
Safety/Safety of Machinery

Declaration of Conformity
Test Certificates



Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping other











Confirmation

other Railway

## Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

**Miscellaneous** 

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

#### Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1054-6AU36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1054-6AU36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-6AU36

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

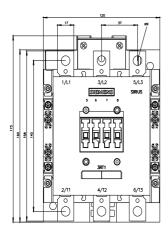
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1054-6AU36&lang=en

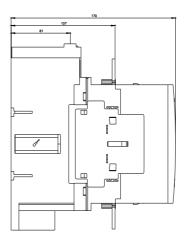
Characteristic: Tripping characteristics, I2t, Let-through current

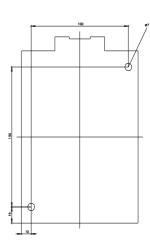
https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-6AU36/char

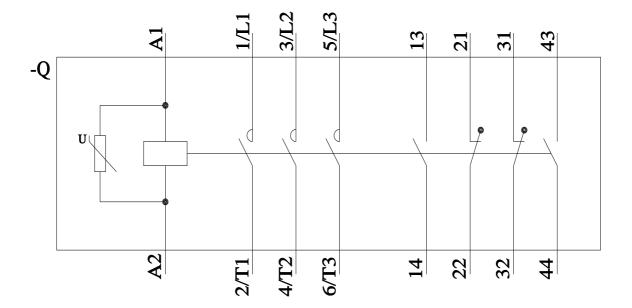
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1054-6AU36&objecttype=14&gridview=view1









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