## **SIEMENS**

**Data sheet** 3RT1075-6AB36



power contactor, AC-3 400 A, 200 kW / 400 V AC (50-60 Hz) / DC operation 23-26 V AC/DC auxiliary contacts 2 NO + 2 NC 3-pole, frame size S12 busbar connections drive: conventional screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S12
product extension	
function module for communication	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
at AC in hot operating state	105 W
at AC in hot operating state per pole	35 W
without load current share typical	10 W
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	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for safe isolation 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 (switching 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
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 %
lain circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	3
at AC-3 rated value maximum	1 000 V
at AC-3 rated value maximum     at AC-3e rated value maximum	1 000 V
operational current	1 000 V
•	430 A
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	430 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C	430 A
rated value	
— up to 690 V at ambient temperature 60 °C	400 A
rated value	
— up to 1000 V at ambient temperature 40 °C	200 A
rated value	
— up to 1000 V at ambient temperature 60 °C	200 A
rated value	
• at AC-3	400 A
— at 400 V rated value	400 A
— at 500 V rated value	400 A
— at 690 V rated value	400 A
— at 1000 V rated value	180 A
• at AC-3e	
— at 400 V rated value	400 A
— at 500 V rated value	400 A
— at 690 V rated value	400 A
— at 1000 V rated value	180 A
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	350 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	378 A
<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	332 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated	395 A
value	
<ul> <li>up to 400 V for current peak value n=20 rated</li> </ul>	395 A
value	
— up to 500 V for current peak value n=20 rated	395 A
value	20F A
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	395 A
— up to 1000 V for current peak value n=20 rated	180 A
value	
• at AC-6a	
— up to 230 V for current peak value n=30 rated	264 A
value	
— up to 400 V for current peak value n=30 rated	264 A
value	
— up to 500 V for current peak value n=30 rated	264 A
value	2011
— up to 690 V for current peak value n=30 rated	264 A
value	490 A
<ul> <li>up to 1000 V for current peak value n=30 rated value</li> </ul>	180 A
minimum cross-section in main circuit at maximum AC-1	300 mm <sup>2</sup>
rated value	
operational current for approx. 200000 operating	
cycles at AC-4	
• at 400 V rated value	150 A
• at 690 V rated value	135 A
operational current	
• at 1 current path at DC-1	

— at 24 V rated value	400 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 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
	ZA
with 3 current paths in series at DC-1  at 24 V rated value.	400 A
— at 24 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
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	400 A
— at 110 V rated value	3 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.18 A
— at 600 V rated value	0.125 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	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
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 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	132 kW
— at 400 V rated value	200 kW
— at 500 V rated value	250 kW
— at 690 V rated value	400 kW
— at 1000 V rated value	250 kW
• at AC-3e	
— at 230 V rated value	132 kW
— at 400 V rated value	200 kW
— at 500 V rated value	250 kW
— at 690 V rated value	400 kW
— at 1000 V rated value	250 kW
operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	85 kW
at 690 V rated value	133 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	150 000 kVA
• up to 400 V for current peak value n=20 rated value	270 000 VA
• up to 500 V for current peak value n=20 rated value	340 000 VA
• up to 690 V for current peak value n=20 rated value	470 000 VA
up to 1000 V for current peak value n=20 rated value     value	310 000 VA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	100 000 VA

• up to 400 V for current peak value m=30 rated value  • up to 500 V for current peak value m=30 rated value  • up to 500 V for current peak value m=30 rated value  • up to 100 V for current peak value m=30 rated value  • up to 100 V for current peak value m=30 rated value  • up to 100 V for current peak value m=30 rated value  • up to 100 V for current peak value m=30 rated value  • limited to 1s switching at zero current maximum  • limited to 1s switching at		
• up to 890 V for current peak value n=30 rated value  • up to 490 V for current peak value n=30 rated value  • up to 40 °C  • limited to 1 s withching at zero current maximum  • limited to 1 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 30 s witching at zero current maximum  • limited to 30 s witching at zero current maximum  • limited to 30 s witching at zero current maximum  • limited to 30 s witching at zero current maximum  • limited to 60 s witching at zero current maximum  • limited to 60 s witching at zero current maximum  • limited to 60 s witching at zero current maximum  • limited to 60 s witching at zero current maximum  • limited to 60 s witching at zero current maximum  • limited to 60 s witching at zero current maximum  • limited to 60 s witching at zero current maximum  • limited to 60 s witching at zero current maximum  • limited to 60 s witching at zero current maximum  • limited to 700 s witching at zero current maximum  • limited to 60 s witching at zero current maximum  • limited to 60 s witching at zero current maximum  • limited to 60 s witching at zero current maximum  • limited to 60 s witching at zero current maximum  • limited to 60 s witching at zero current maximum  • limited to 60 s witching at zero current maximum  • limited to 60 s witching at zero current maximum  • at AC-2 maximum  • at AC-2 maximum  • at AC-2 maximum  • at AC-2 maximum  • at AC-3 maximum  • at AC-3 maximum  • at 60 Hz card value  • at 60 Hz card valu	<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	180 000 VA
• up to 1000 V for current peak value n=30 rated value  short-time withstand current in cold operating state up to 40 °C  • limited to 15 s witching at zero current maximum  • limited to 5 s witching at zero current maximum  • limited to 50 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  no-load switching frequency  • at ACC  • at DC  • at DC  • at ACC-1 maximum  • at ACS-2 maximum  • at ACS-3 maximum  • at ACS-3 maximum  • at ACS-4 maximum  • at ACS-1 rated value  • at 80 Hz  • at 80	<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	220 000 VA
value  short-time withstand current in cold operating state up to 40 °C  iminited to 1 s witching at zero current maximum  imined to 1 s switching at zero current maximum  imined to 1 s switching at zero current maximum  imined to 1 s switching at zero current maximum  imined to 30 s switching at zero current maximum  imined to 80 switching at zero current maximum  imined to 80 switching at zero current maximum  no-load switching frequency  at ACC  at OC  operating frequency  at ACC-1 maximum  at ACC-2 maximum  at ACC-2 maximum  at ACC-3 maximum  at ACC-3 maximum  500 1/h  at ACC-3 remaximum  500 1/	<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	310 000 VA
short-time withstand current in cold operating state up to 40 °C  imited to 1 a switching at zero current maximum imited to 5 a switching at zero current maximum imited to 50 s switching at zero current maximum imited to 80 s switching at zero current maximum imited to 80 s switching at zero current maximum imited to 80 s switching at zero current maximum no-load switching frequency at ACC at DC 2000 1/h at ACC-1 maximum 2000 1/h at ACC-3 maximum 500 1/h at ACC-3 maximum 500 1/h at ACC-3 maximum 500 1/h 5	·	310 000 VA
up to 40 °C  Imited to 1 s switching at zero current maximum  Imited to 1 s switching at zero current maximum  Imited to 1 s switching at zero current maximum  Imited to 1 s switching at zero current maximum  Imited to 30 s switching at zero current maximum  Imited to 30 s switching at zero current maximum  Imited to 60 s switching at zero current maximum  Imited to 60 s switching at zero current maximum  Imited to 60 s switching at zero current maximum  Imited to 60 s switching at zero current maximum  Imited to 60 s switching at zero current maximum  Imited to 60 s switching at zero current maximum  Imited to 60 s switching at zero current maximum  Imited to 60 s switching at zero current maximum  Imited to 60 s switching at zero current maximum  Imited to 60 s switching at zero current maximum  Imited to 60 s switching at zero current maximum  Imited to 60 s switching at zero current maximum  Imited to 60 s switching at zero current maximum  Imited to 60 s switching at zero current maximum  Imited to 60 switching at zero current maximum  Imited to 60 s switching at zero current maximum  Imited to 60 s switching at zero current maximum  Imited to 60 s switching at zero current maximum  Imited to 60 s switching at zero current maximum  Imited to 60 s switching at zero current maximum  Imited to 60 s switching at zero current maximum  Imited to 60 s switching at zero current maximum  Imited to 60 s switching at zero current maximum  Imited to 60 switching at zero current maximum  Imited to 60 s switching at zero current maximum  Imited to 60 s switching at zero current maximum  Imited to 60 s switching at zero current maximum  Imited to 60 s switching at zero current maximum  Imited to 60 s switching at zero current maximum  Imited to 60 s switching at zero current maximum  Imited to 60 s switching at zero current maximum  Imited to 60 s switching at zero current maximum  Imited to 60 s switching at zero current maximum  Imited to 60 s switching at zero current maximum  Imited to 60 s switching at zero current		
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e limited to 5 s switching at zero current maximum e limited to 10 s switching at zero current maximum e limited to 30 s switching at zero current maximum e limited to 30 s switching at zero current maximum no-load switching frequency e at AC at DC 2000 1th carrent maximum e limited to 60 s switching at zero current maximum no-load switching frequency e at AC at DC 2000 1th carrent maximum e limited to 60 s switching at zero current maximum no-load switching frequency e at AC-1 maximum e limited to 60 s switching at zero current maximum e limited to 60 s switching at zero current maximum no-load switching frequency e at AC-1 maximum e limited to 60 s switching at zero current maximum e limited to 60 s switching at zero current maximum no-load switching frequency e at AC-1 maximum e limited to 60 s switching at zero current maximum e limited to 60 s switching at zero current maximum no-load switching frequency e at AC-2 maximum e limited to 60 s switching at zero current maximum e limited to 60 s switching at zero current maximum e limited to 60 s switching at zero current maximum no-load switching at zero current maximum e limited to 60 s switching at zero current maximum no-load switchi	•	6 600 At Lice minimum erose coetion acc. to AC 1 rated value
Imitled to 10 s switching at zero current maximum   Imitled to 80 s switching at zero current maximum   Imitled to 80 s switching at zero current maximum   2 635 k; Use minimum cross-section acc. to AC-1 rated value   2 000 1/h   2	_	
Imited to 30 s switching at zero current maximum   2 835 Å; Use minimum cross-section acc, to AC-1 rated value   1 minted to 80 s switching at zero current maximum   2 888 Å; Use minimum cross-section acc, to AC-1 rated value   2 1000 1/h   2 1000 1		
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no-load switching frequency  at AC  at DC  operating frequency  at AC-1 maximum  at AC-3 maximum  at AC-3 maximum  at AC-3 maximum  bool 1h  at AC-3 maximum  at AC-3 maximum  at AC-3 maximum  at AC-3 maximum  bool 1h  at AC-4 maximum  control creduct Control  type of voltage of the control supply voltage  control supply voltage at AC  at 50 Hz rated value  at 60 Hz rated value  control supply voltage at DC  rated value  arrated value  porating range factor control supply voltage rated value of magnet coil at DC  initial value  at 50 Hz  at 60 Hz  apparent plick-up power of magnet coil at AC  at 50 Hz  at 60 Hz  at 60 Hz  at 60 Hz  apparent plick-up power factor with the holding power of the coil  at 60 Hz  at 60 Hz  at 60 Hz  apparent plick-up power factor with the holding power of the coil  at 60 Hz  at 60 Hz  apparent plick-up power of magnet coil at AC  at 50 Hz  at 60 Hz  apparent plick-up power factor with the holding power of the coil  at 60 Hz  at 60 Hz  apparent plick-up power of magnet coil at AC  at 50 Hz  at 60 Hz  apparent plick-up power of magnet coil at AC  at 50 Hz  at 60 Hz  apparent plick-up power of magnet coil at AC  at 50 Hz  at 60 Hz  apparent plick-up power of magnet coil at AC  at 50 Hz  at 60 Hz  apparent plick-up power factor with the holding power of the coil  at 60 Hz  apparent plick-up power of magnet coil at AC  at 50 Hz  at 60 Hz  apparent plick-up power of magnet coil at AC  at 50 Hz  at 60 Hz  apparent plick-up power of magnet coil at AC  at 50 Hz  at 60 Hz  apparent plick-up power of magnet coil at AC  at 50 Hz  at 60 Hz  apparent plick-up power of magnet coil at AC  at 50 Hz  at 60 Hz  apparent plick-up power of magnet coil at AC  at 50 Hz  at 60 Hz  apparent plick-up power of magnet coil at AC  at 50 Hz  at 60 H	_	
		2 000 A, USE HIIIIIIIIIII CIUSS-SECTION ACC. TO AC-1 Tated value
• at DC  operating frequency  • at AC-2 maximum  • at AC-3 maximum  • at AC-3 maximum  • at AC-3 maximum  • at AC-3 maximum  • at AC-4 maximum  • at AC-3 maximum  • at AC-3 maximum  • at AC-3 maximum  • at AC-4 maximum  • at AC-3 maximum  • at AC-4 maximum  • at AC-4 maximum  • at AC-3 maximum  • at AC-4 maximum  • at AC-3 maximum  • at AC-4 maximum  • at AC-3 maximum  • at AC-4 maximum  • at AC-4 maximum  • at AC-2 maximum  • at BC-2 maximum  • at AC-2 maximum  • at AC-3 maximum  • at BC-2 maximum  •		2 000 1/h
operating frequency  at AC-1 maximum  at AC-2 maximum  at AC-3 maximum  bool 1h  at AC-3 maximum  cat AC-3 maximum  bool 1h  at AC-3 maximum  cat AC-4 maximum  cat AC-4 maximum  control circuit Control  type of voltage of the control supply voltage  control supply voltage at AC  at 50 Hz rated value  control supply voltage at DC  at 60 Hz rated value  control supply voltage at DC  at 60 Hz rated value  corrol supply voltage at DC  at 60 Hz rated value  corrol supply voltage at DC  initial value  initial value  chill-scale value  coperating range factor control supply voltage rated value of magnet coil at DC  at 50 Hz  at 60 Hz  control very factor with the holding power of the coil  at 50 Hz  at 60 Hz  cat 60 Hz  ca		
* at AC-1 maximum 200 1/h   * at AC-3 maximum 500 1/h   * at AC-3 maximum 500 1/h   * at AC-3 maximum 500 1/h   * at AC-3 maximum 130 1/h    Control circult/ Control    Type of voltage of the control supply voltage AC/DC    * control supply voltage at AC   * at 50 Hz rated value 23 26 V   * at 60 Hz rated value 23 26 V   * orated value 23 26 V   * operating range factor control supply voltage rated value of magnet coil at DC   * initial value		2 000 1/11
		700 4/b
at AC-3 maximum at AC-3 maximum 500 1/h 301 AT 130 1/h 201 AC-2 maximum 202 AC-2 maximum 203 AC-2 maximum 203 AC-2 maximum 204 AC-3 maximum 204 AC-3 maximum 205 AC-2 maximum 207 AC-2 maximum 207 AC-2 maximum 208		
** at AC-3e maximum		
■ at AC-4 maximum     Control circuit/ Control type of voltage of the control supply voltage     control supply voltage at AC     ■ at 50 Hz rated value     ■ at 60 Hz rated value     ■ at 60 Hz rated value     ○ are initial value     ○ initial value		
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■ at 50 Hz rated value     ■ at 60 Hz rated value     ■ at 60 Hz rated value     ■ at 60 Hz rated value     ■ operating range factor control supply voltage rated value of magnet coil at DC     ■ initial value     ■ full-scale value     □ operating range factor control supply voltage rated value of magnet coil at AC     ■ at 50 Hz     ■ at 60 Hz     ■ at 60 Hz     ■ at 50 Hz		AC/DC
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initial value         intil-scale value         operating range factor control supply voltage rated value of magnet coil at AC		
• full-scale value     operating range factor control supply voltage rated value of magnet coil at AC	_	0.8
operating range factor control supply voltage rated value of magnet coil at AC  • at 50 Hz • at 60 Hz design of the surge suppressor 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  inductive power of magnet coil at AC • at 50 Hz • at 60 Hz  apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz  apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz  p.2 VA inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz  coil • at 50 Hz • at 60 Hz  p.2 VA  inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz  coil • at 50 Hz • at 60 Hz  10.9  closing power of magnet coil at DC  holding power of magnet coil at DC  holding power of magnet coil at DC  closing delay • at AC • at DC		
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■ at 60 Hz      design of the surge suppressor     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 of magnet coil at AC     ■ at 50 Hz     ■ at 60 Hz     inductive power factor with the holding power of the coil     ■ at 50 Hz     ■ 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     holding 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     at DC     arcing time     control version of the switch operating mechanism     Standard A1 - A2		
design of the surge suppressor apparent pick-up power of magnet coil at AC  • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz  • at 60 Hz  • at 60 Hz  apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz  • at AC • at DC  • at DC  • at DC • at D	● at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC  • at 50 Hz • at 60 Hz  inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz  • at 60 Hz  • at 60 Hz  apparent holding power of magnet coil at AC  • at 50 Hz • at 60 Hz  inductive power factor with the holding power of the coil • at 50 Hz • 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 AC • at DC •	● at 60 Hz	0.8 1.1
	design of the surge suppressor	with varistor
inductive power factor with closing power of the coil  at 50 Hz  at 60 Hz  o.9  apparent holding power of magnet coil at AC  at 50 Hz  at 60 Hz  9.2 VA  at 60 Hz  9.2 VA  inductive power factor with the holding power of the coil  at 50 Hz  at 60 Hz  0.9  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay  at AC  at AC  at AC  at AC  at DC  opening delay  at AC  at DC  for 100 ms  opening delay  at AC  at DC  for 100 ms  opening delay  at AC  at DC  for 100 ms  opening delay  at AC  at DC  for 100 ms  Standard A1 - A2	apparent pick-up power of magnet coil at AC	
inductive power factor with closing power of the coil  • at 50 Hz • at 60 Hz  apparent holding power of magnet coil at AC  • at 50 Hz • at 60 Hz  • at 60 Hz  • at 60 Hz  inductive power factor with the holding power of the coil  • at 50 Hz • at 60 Hz  0.9  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay • at AC • at DC	● at 50 Hz	830 VA
at 50 Hz at 60 Hz  outparent holding power of magnet coil at AC  at 50 Hz at 60 Hz  et 60 Hz  inductive power factor with the holding power of the coil  at 50 Hz at 60 Hz  outparent 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  toloing power of magnet coil at DC  closing delay at AC at	• at 60 Hz	830 VA
at 50 Hz at 60 Hz  outparent holding power of magnet coil at AC  at 50 Hz at 60 Hz  et 60 Hz  inductive power factor with the holding power of the coil  at 50 Hz at 60 Hz  outparent 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  toloing power of magnet coil at DC  closing delay at AC at	inductive power factor with closing power of the coil	
apparent holding power of magnet coil at AC  • at 50 Hz • at 60 Hz  inductive power factor with the holding power of the coil  • at 50 Hz • at 60 Hz  • at 60 Hz  • 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  Substituting the control version of the switch operating mechanism  Standard A1 - A2		0.9
<ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>9.2 VA</li> <li>inductive power factor with the holding power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>0.9</li> <li>closing power of magnet coil at DC</li> <li>holding power of magnet coil at DC</li> <li>10 W</li> <li>closing delay</li> <li>at AC</li> <li>at DC</li> <li>45 100 ms</li> <li>opening delay</li> <li>at AC</li> <li>at</li></ul>	• at 60 Hz	0.9
<ul> <li>at 60 Hz</li> <li>inductive power factor with the holding power of the coil</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>0.9</li> <li>closing power of magnet coil at DC</li> <li>holding power of magnet coil at DC</li> <li>10 W</li> <li>closing delay</li> <li>at AC</li> <li>at DC</li> <li>45 100 ms</li> <li>opening delay</li> <li>at AC</li> <li>opening delay</li> <li>at AC</li> <li>at DC</li> <li< td=""><td>apparent holding power of magnet coil at AC</td><td></td></li<></ul>	apparent holding power of magnet coil at AC	
inductive power factor with the holding power of the coil  • at 50 Hz • at 60 Hz  • at 60 Hz  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay • at AC • at DC  • at DC  opening delay • at AC • at DC  other in the holding power of the coil at DC  10 W  closing delay • at AC • at DC  opening delay • at AC • at DC  other in the selection of the switch operating mechanism  output  Standard A1 - A2	• at 50 Hz	9.2 VA
coil              ● at 50 Hz	• at 60 Hz	9.2 VA
<ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>closing power of magnet coil at DC</li> <li>holding power of magnet coil at DC</li> <li>10 W</li> <li>closing delay</li> <li>at AC</li> <li>at DC</li> <li>45 100 ms</li> <li>opening delay</li> <li>at AC</li> <li>at AC</li> <li>at DC</li> <li>opening delay</li> <li>at AC</li> <li>at DC</li> <li>at DC<!--</td--><td>inductive power factor with the holding power of the</td><td></td></li></ul>	inductive power factor with the holding power of the	
<ul> <li>at 60 Hz</li> <li>closing power of magnet coil at DC</li> <li>holding power of magnet coil at DC</li> <li>10 W</li> <li>closing delay <ul> <li>at AC</li> <li>at DC</li> <li>45 100 ms</li> <li>opening delay</li> <li>at AC</li> <li>at AC</li> <li>at DC</li> <li>at</li></ul></li></ul>		
closing power of magnet coil at DC  holding power of magnet coil at DC  10 W  closing delay  • at AC  • at DC  • at DC  • at AC  • at DC		
holding power of magnet coil at DC  closing delay  at AC  at DC  topening delay  at AC  at AC  at AC  by at AC  copening delay  at AC  at AC  copening delay  at AC  at DC  at DC  copening delay  at DC  standard A1 - A2		
closing delay       45 100 ms         ● at AC       45 100 ms         ● at DC       45 100 ms         opening delay       60 100 ms         ● at DC       60 100 ms         arcing time       10 15 ms         control version of the switch operating mechanism       Standard A1 - A2		
<ul> <li>at AC</li> <li>at DC</li> <li>45 100 ms</li> <li>opening delay</li> <li>at AC</li> <li>at DC</li> <li>at DC</li> <li>at DC</li> <li>at DC</li> <li>arcing time</li> <li>control version of the switch operating mechanism</li> <li>Standard A1 - A2</li> </ul>		10 W
<ul> <li>at DC</li> <li>opening delay</li> <li>at AC</li> <li>at DC</li> <li>at DC</li> <li>at DC</li> <li>arcing time</li> <li>control version of the switch operating mechanism</li> <li>45 100 ms</li> <li>60 100 ms</li> <li>10 15 ms</li> <li>Standard A1 - A2</li> </ul>		
opening delay  • at AC  • at DC  60 100 ms  • at DC  60 100 ms  10 15 ms  control version of the switch operating mechanism  Standard A1 - A2		
<ul> <li>at AC</li> <li>at DC</li> <li>60 100 ms</li> <li>60 100 ms</li> <li>arcing time</li> <li>10 15 ms</li> <li>control version of the switch operating mechanism</li> <li>Standard A1 - A2</li> </ul>		45 100 ms
● at DC 60 100 ms  arcing time 10 15 ms  control version of the switch operating mechanism Standard A1 - A2		
arcing time 10 15 ms control version of the switch operating mechanism Standard A1 - A2		
control version of the switch operating mechanism Standard A1 - A2		
Auxiliary circuit		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
<ul> <li>at 400 V rated value</li> </ul>	3 A
• at 500 V rated value	2 A
at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	10 A
at 48 V rated value	6 A
• at 60 V rated value	6 A
• at 110 V rated value	3 A
• at 125 V rated value	2 A
at 220 V rated value	1 A
at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	10 A
at 48 V rated value	2 A
at 60 V rated value	2 A
• at 110 V rated value	1 A
at 125 V rated value	0.9 A
at 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	361 A
• at 600 V rated value	382 A
yielded mechanical performance [hp] • for 3-phase AC motor	
— at 200/208 V rated value	125 hp
— at 220/230 V rated value	150 hp
— at 460/480 V rated value	300 hp
— at 575/600 V rated value	400 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	7,000 7,000
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: 400 A (690 V, 50 kA), BS88: 450 A (415
· At	V, 50 kA)
for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
side-by-side mounting	Yes
height	214 mm
width	160 mm
depth	225 mm
required spacing	
with side-by-side mounting	00
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
<ul> <li>for grounded parts</li> </ul>	

— forwards	20 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
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
for auxiliary and control circuit	screw-type terminals
at contactor for auxiliary contacts	Screw-type terminals
of magnet coil	Screw-type terminals
width of connection bar	25 mm
thickness of connection bar	6 mm
diameter of holes	11 mm
number of holes	1
type of connectable conductor cross-sections	
at AWG cables for main contacts	2/0 500 kcmil
connectable conductor cross-section for main	2.0 000 Norm
contacts	
stranded	70 240 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	
<ul> <li>for auxiliary contacts</li> </ul>	
— 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)
<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14), 1x 12
AWG number as coded connectable conductor cross section	
<ul> <li>for auxiliary contacts</li> </ul>	18 14
Safety related data	
product function	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes
<ul> <li>positively driven operation according to IEC 60947- 5-1</li> </ul>	No
B10 value with high demand rate according to SN 31920	1 000 000
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	EMC
Const. France Application	Lino





Confirmation







Functional
Safety/Safety of
Machinery

**Declaration of Conformity** 

**Test Certificates** 

Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

**Miscellaneous** 

Confirmation

Marine / Shipping

other











other Railway

<u>Miscellaneous</u> <u>Miscellaneous</u> <u>Confirmation</u> <u>Special Test Certificate</u>

## **Further information**

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=3RT1075-6AB36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1075-6AB36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1075-6AB36

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

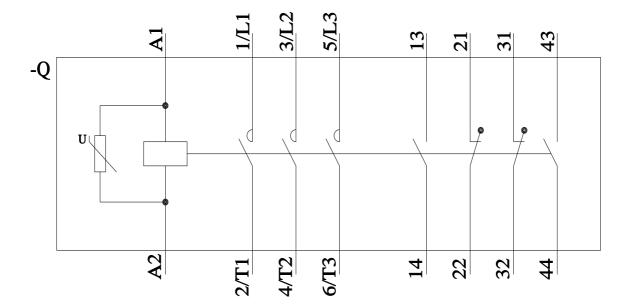
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1075-6AB36&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1075-6AB36/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1075-6AB36&objecttype=14&gridview=view1



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