## **SIEMENS**

Data sheet 3RT1075-2AF36



power contactor, AC-3 400 A, 200 kW / 400 V AC (50-60 Hz) / DC operation 110-127 V AC/DC auxiliary contacts 2 NO + 2 NC 3-pole, frame size S12 busbar connections drive: conventional spring-loaded terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
Seneral technical data	
size of contactor	S12
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>	105 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	35 W
<ul> <li>without load current share typical</li> </ul>	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
mbient 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 %
lain circuit	
	3
number of poles for main current circuit number of NO contacts for main contacts	3
operating voltage	3
	4 000 V
at AC-3 rated value maximum	1 000 V
at AC-3e rated value maximum	1 000 V
operational current	400 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	450 A
— 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	
— 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
• at AC-5a up to 690 V rated value	378 A
at AC-5b up to 400 V rated value	332 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated	395 A
value	
— up to 400 V for current peak value n=20 rated	395 A
value	
<ul> <li>up to 500 V for current peak value n=20 rated</li> </ul>	395 A
value	
— up to 690 V for current peak value n=20 rated	395 A
value	400 A
<ul> <li>up to 1000 V for current peak value n=20 rated value</li> </ul>	180 A
at AC-6a	
	264 A
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	264 A
— 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	
— up to 690 V for current peak value n=30 rated	264 A
value	
— up to 1000 V for current peak value n=30 rated	180 A
value	2002
minimum cross-section in main circuit at maximum AC-1 rated value	300 mm <sup>2</sup>
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 n=30 rated value  • up to 500 V for current peak value n=30 rated value  • up to 500 V for current peak value n=30 rated value  • up to 100 V for current peak value n=30 rated value  • up to 100 V for current peak value n=30 rated value  • up to 100 V for current peak value n=30 rated value  • up to 100 V for current peak value n=30 rated value  • up to 100 V for current peak value n=30 rated value  • limited to 1 s switching 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 10 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 10 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 10 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 10 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 10 s switching at zero current maximum  • limited to 10 switching at zero current maximum  • limited to 10 switching at zero current maximum  • limited to 10 switching at zero current maximum  • at DC  • at CD  • at CD  • at AC-1 maximum  • at AC-2 maximum  • at AC-2 maximum  • at AC-2 maximum  • at AC-2 maximum  • at AC-3 maximum  • at AC-2 maximum  • at AC-3 maximum  • at AC-3 maximum  • at AC-4 maximum  • at AC-4 maximum  • at AC-4 maximum  • at AC-4 maximum  • at AC-5 maximum  • at AC-1 maximum  • at AC-1 maximum  • at AC-2 maximum  • at AC-3 maximum  • at AC-4 maximum  • at AC-4 maximum  • at AC-4 maximum  • at AC-5 maximum  • at AC-5 maximum  • at AC-6 maximum  • at AC-1 maximum  • at AC-1 maximum  • at AC-1 maximum  • at AC-2 max		
up to 580 V for current peak value n=30 rated value     up to 580 V for current peak value n=30 rated     value     short-time withstand current in cold operating state up to 40 °C     ilmited to 1 s withching at zero current maximum     ilmited to 1 s switching at zero current maximum     ilmited to 10 s switching at zero current maximum     ilmited to 30 s witching at zero current maximum     ilmited to 30 s witching at zero current maximum     ilmited to 30 s witching at zero current maximum     ilmited to 30 s witching at zero current maximum     ilmited to 30 s witching at zero current maximum     ilmited to 30 s witching at zero current maximum     no-load witching frequency          if A/AC	<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	180 000 VA
wip to 1000 V for current peak value n=30 rated value  short-time withstand current in cold operating state up to 40 °C  imited to 15 as witching at zero current maximum imited to 50 as witching at zero current maximum imited to 50 as witching at zero current maximum imited to 60 as witching at zero current maximum imited to 60 as witching at zero current maximum to-load switching frequency  at ACC 2001 th  at DC 2000 th  at ACC-1 maximum 700-100 th  at ACC-3 maximum 2000 th  at ACC-3 maximum 2000 th  at ACC-3 maximum 5000 th  at ACC-3 maximum 5000 th  at ACC-4 maximum 5000 th  at ACC-4 maximum 1300 th  control surphy voltage at AC 1500 th  at 80 Hz rated value 110 127 V  at 80 Hz rated value 110 127 V  at 80 Hz rated value 110 127 V  control supphy voltage at AC 1610 th 100 th 1	<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  Imitited to 1 s witching at zero current maximum  Imitited to 1 s switching at zero current maximum  Imitited to 10 s switching at zero current maximum  Imitited to 30 s witching at zero current maximum  Imitited to 30 s witching at zero current maximum  Imitited to 30 s witching at zero current maximum  Imitited to 80 s witching at zero cu	<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	310 000 VA
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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 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency at AC at DC barting frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum by portaling frequency at AC-3 maximum by at AC-3 maximum at AC-3 maximum by by of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value by at 60 Hz rated value control supply voltage at DC by rated value by at 60 Hz rated value control supply voltage at DC control supply voltage rated value of magnet coil at DC control supply voltage voltage rated value of magnet coil at AC at 50 Hz at 50 Hz by at 60 Hz control voltage rated value of magnet coil at AC at 50 Hz control voltage rated value of magnet coil at AC at 50 Hz control voltage rated value of magnet coil at AC at 50 Hz control voltage rated value of magnet coil at AC at 50 Hz control voltage rated value of magnet coil at AC at 50 Hz control voltage rated value of magnet coil at AC at 50 Hz control voltage rated value of magnet coil at AC at 50 Hz control voltage rated value of magnet coil at AC at 50 Hz control voltage rated value of magnet coil at AC at 50 Hz control voltage rated value of magnet coil at AC at 50 Hz control voltage rated value of magnet coil at AC at 50 Hz control voltage rated value of magne	_	
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e limited to 60 s witching at zero current maximum no-load switching frequency e at DC e at AC-1 maximum e at AC-3 maximum e at AC-4 maximum e at AC-4 maximum e at AC-4 maximum e at AC-4 maximum e at AC-3 maximum e at AC-3 maximum e at AC-4 maximum e at AC-3 maximum e at AC-4 maximum e at AC-3 maximum e at AC-3 maximum e at AC-4 maximum e at AC-3 maximum e at AC-4 maximum e at AC-3 maximum e at AC-3 maximum e at AC-4 maximum e at AC-4 maximum e at AC-3 maximum e at AC-4 maximum e at AC-3 maximum e at AC-3 maximum e at AC-3 maximum e at AC-4 maximum e		
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* at AC		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-4 maximum  • at AC-4 maximum  • at AC-3 maximum  • at AC-4 maximum  • at AC-3 maximum  • at AC-4 maximum  • at AC-2 maximum  • at BC-2 maximum  • at AC-3 maximum  • at AC-2 maximum  • at BC-1 maximum  • at BC-2 maximum  • at BC-2 maximum  • at BC-2 maximum  • at BC-3 maximum  • at BC-4 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-4 maximum  bool 1h  at AC-4 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  control supply voltage at DC  at 60 Hz rated value  control supply voltage at DC  at 60 Hz rated value  control supply voltage at DC  at 60 Hz  control were factor with the holding power of the coil  at 60 Hz  apparent holding power of magnet coil at AC  at 60 Hz  at 60 Hz  at 60 Hz  at 60 Hz  apparent holding power of magnet coil at AC  at 60 Hz  at 60 Hz  at 60 Hz  at 60 Hz  apparent holding power of magnet coil at AC  at 60 Hz  at 60 Hz  at 60 Hz  apparent holding power of magnet coil at AC  at 60 Hz		
* 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 110 127 V * at 60 Hz rated value 110 127 V * or at 60 Hz rated value 110 127 V * or at 60 Hz rated value 110 127 V * or at 60 Hz rated value 110 127 V * operating range factor control supply voltage rated value of magnet coil at DC * initial value 0.8 * full-scale value 1.1 * operating range factor control supply voltage rated value of magnet coil at AC * at 50 Hz * at 60 Hz 0.8 1.1 * design of the surge suppressor with varietor apparent pick-up power of magnet coil at AC * at 50 Hz 830 VA * at 60 Hz 0.9 * at 60 Hz 0.9 * apparent holding power of magnet coil at AC * at 50 Hz 0.9 * apparent holding power of magnet coil at AC * at 60 Hz 0.9 * apparent holding power of magnet coil at AC * at 60 Hz 0.9 * apparent holding power of magnet coil at AC * at 60 Hz 0.9 * apparent holding power of magnet coil at AC * at 60 Hz 0.9 * apparent holding power of magnet coil at AC * at 60 Hz 0.9 * apparent holding power of magnet coil at AC * at 60 Hz 0.9		2 000 1/11
		700 4/b
at AC-3 maximum at AC-3 maximum 500 1/h 301 AC-3 maximum 130 1/h Control circuit/ Control  type of voltage of the control supply voltage Control supply voltage at AC at 50 Hz rated value 110 127 V 110 127 V 210 AC 100		
** 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     ○ at 60 Hz rated value     ○ at 60 Hz rated value     ○ rated value     ○ rated value     ○ rated value     ○ serial value     ○ at 50 Hz     ○ at 50 Hz     ○ at 50 Hz     ○ at 50 Hz     ○ at 60 Hz     ○ at		
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control supply voltage at AC  at 50 Hz rated value  at 60 Hz rated value  110 127 V  control supply voltage at DC  at active value  110 127 V  control supply voltage at DC  at active value  110 127 V  control supply voltage at DC  at active value  110 127 V  copariting range factor control supply voltage rated value of magnet coil at DC  at initial value  coperating range factor control supply voltage rated value of magnet coil at AC  at 50 Hz  at 60 Hz  coll supply suppressor  apparent pick-up power of magnet coil at AC  at 50 Hz  at 60 Hz  at 50 Hz  at 60 Hz  coll supply suppressor  apparent pick-up power of magnet coil at AC  at 50 Hz  at 50 Hz  at 50 Hz  by at 60 Hz  coll supply voltage rated value  coll supply voltage rated value  coll supply voltage rated value  1,1  0,8 1,1  0,8 1,1  0,8 1,1  0,8 1,1  0,8 1,1  0,8 1,1  0,8 1,1  0,9 1,1  design of the surge suppressor  apparent pick-up power of magnet coil at AC  at 50 Hz  at 60 Hz  coll supply voltage rated value  1,1  0,8		AOIDO
at 50 Hz rated value at 60 Hz rated value 110 127 V  at 60 Hz rated value 110 127 V  rated value  rated value  rated value  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 60 Hz  at 50 Hz  at 60 Hz  be at 50 Hz  at 60 Hz  coperating 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  at 60 Hz  apparent holding power of magnet coil at AC  at 50 Hz  at 60 Hz  bolding power of magnet coil at DC  closing delay  at 60 Hz  at 60 Hz  at 60 Hz  at 60 Hz  bolding power of magnet coil at DC  closing delay  at 60 Hz  at 60 Hz  at 60 Hz  bolding power of magnet coil at DC  copaning delay  at 60 Hz  at 60 Hz  bolding power of magnet coil at DC  copaning delay  at 60 Hz  at 60 Hz  bolding power of magnet coil at DC  control version of the switch operating mechanism  Standard A1 - A2		AC/DC
• at 60 Hz rated value  control supply voltage at DC  • 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  • initial value  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  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  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  • 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  • at 60 Hz  inductive power of magnet coil at DC  tolsing power of magnet coil at DC  holding power of magnet coil at DC  tolsing delay  • at AC  • at DC  • a		440 4071/
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value of magnet coil at DC  initial value  of ull-scale value  operating range factor control supply voltage rated value of magnet coil at AC  in at 50 Hz  oat 60 Hz  closing power of magnet coil at DC  holding power of magnet coil at DC  oat 60 Mc  oat DC  oat DC  opening delay  oat AC  oat DC  o		110 127 V
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		
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  at 60 Hz  inductive power factor with closing power of the coil  at 50 Hz  at 50 Hz  at 50 Hz  but 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 60 Hz  at 60 Hz  at 60 Hz  but 60 Hz  at 60 Hz  coil  at 50 Hz  but 60 Hz  coil  at 60 Hz  coil  but 60 Hz  coil  coil  at 60 Hz  coil  coil  at 60 Hz  coil  at 60 Hz  coil  coil  coil  at 60 Hz  coil  co		1.1
■ 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  9.2 VA at 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  outparent holding power of the coil  at 60 Hz  closing power of magnet coil at DC  holding power of magnet coil at DC  tologing power of magnet coil at DC  closing delay  at AC at AC at AC at Mo Ms  opening delay  at AC at AC at Mo Ms  opening delay  at AC at AC at Mo Ms  control version of the switch operating mechanism  Standard A1 - A2	• 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  9.2 VA at 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  outparent holding power of the coil  at 60 Hz  closing power of magnet coil at DC  holding power of magnet coil at DC  tologing power of magnet coil at DC  closing delay  at AC at AC at AC at Mo Ms  opening delay  at AC at AC at Mo Ms  opening delay  at AC at AC at Mo Ms  control version of the switch operating mechanism  Standard A1 - A2	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	
<ul> <li>at 110 V rated value</li> </ul>	3 A	
• at 125 V rated value	2 A	
<ul> <li>at 220 V rated value</li> </ul>	1 A	
• at 600 V rated value	0.15 A	
operational current at DC-13		
<ul> <li>at 24 V rated value</li> </ul>	10 A	
• at 48 V rated value	2 A	
• at 60 V rated value	2 A	
<ul> <li>at 110 V rated value</li> </ul>	1 A	
• at 125 V rated value	0.9 A	
<ul> <li>at 220 V rated value</li> </ul>	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	
<ul> <li>at 220/230 V rated value</li> </ul>	150 hp	
<ul> <li>— at 460/480 V rated value</li> </ul>	300 hp	
— at 575/600 V rated value	400 hp	
contact rating of auxiliary contacts according to UL	A600 / Q600	
Short-circuit protection		
design of the fuse link		
• for short-circuit protection of the main circuit		
<ul> <li>— with type of coordination 1 required</li> </ul>	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 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	screw fixing	
side-by-side mounting	Yes	
height	214 mm	
width	160 mm	
depth	225 mm	
required spacing		
<ul> <li>with side-by-side mounting</li> </ul>		
— 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	
<ul><li>for live parts</li></ul>		
— forwards	20 mm	
— upwards	10 mm	
— downwards	10 mm	
— at the side	10 mm	
Connections/ Terminals		
type of electrical connection		
<ul> <li>for main current circuit</li> </ul>	Connection bar	
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals	
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Spring-type terminals	
of magnet coil	Spring-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		
<ul> <li>at AWG cables for main contacts</li> </ul>	2/0 500 kcmil	
connectable conductor cross-section for main contacts		
• stranded	70 240 mm²	
connectable conductor cross-section for auxiliary contacts		
<ul> <li>solid or stranded</li> </ul>	0.25 2.5 mm²	
<ul> <li>finely stranded with core end processing</li> </ul>	0.25 1.5 mm²	
finely stranded without core end processing	0.25 2.5 mm²	
type of connectable conductor cross-sections		
<ul> <li>for auxiliary contacts</li> </ul>		
— solid	2x (0.25 2.5 mm²)	
<ul><li>— solid or stranded</li></ul>	2x (0,25 2,5 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.25 1.5 mm²)	
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.25 2.5 mm²)	
<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	2x (24 14)	
AWG number as coded connectable conductor cross section		
for auxiliary contacts	24 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-</li><li>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		
<ul> <li>safety-related switching OFF</li> </ul>	Yes	
Certificates/ approvals		
General Product Approval	EMC	



Confirmation









Functional Safety/Safety of	Declaration of Conformity	Test Certificates	Marine / Shipping
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Machinery

Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping

other







Miscellaneous

Confirmation

Miscellaneous

other

Railway

Confirmation

Special Test Certificate

## 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=3RT1075-2AF36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1075-2AF36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1075-2AF36

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

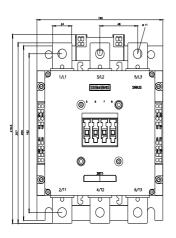
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1075-2AF36&lang=en

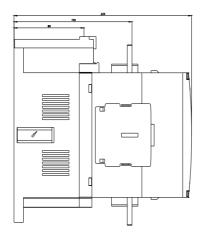
 $\label{lem:characteristics} \textbf{Characteristics}, \textbf{I}^{\textbf{2}}\textbf{t}, \textbf{Let-through current}$ 

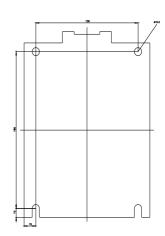
https://support.industry.siemens.com/cs/ww/en/ps/3RT1075-2AF36/char

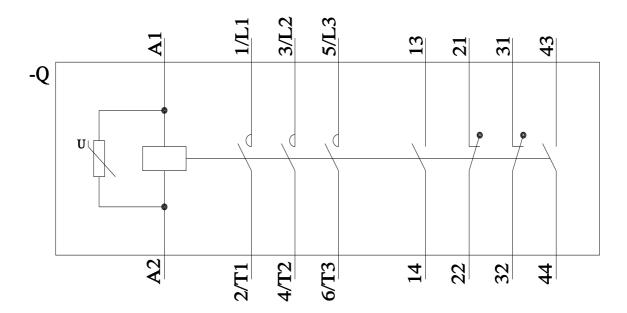
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1075-2AF36&objecttype=14&gridview=view1









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