## SIEMENS

## Data sheet

## 3RT1075-6AU36



power contactor, AC-3 400 A, 200 kW / 400 V AC (50-60 Hz) / DC operation 240-277 V AC/DC auxiliary contacts 2 NO + 2 NC 3-pole, frame size S12 busbar connections drive: conventional screw terminal

product designation         Power contactor           product type designation         3RT1           General technical data	product brand name	SIRIUS
General technical data       S12         size of contactor       S12         product extension       No         • function module for communication       No         • auxiliary switch       Yes         power loss [W] for rated value of the current       105 W         • 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       1 000 V         • of main circuit with degree of pollution 3 rated value       1 000 V         • of main circuit rated value       6 kV         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • at AC       8,5g / 5 ms, 4.2g / 10 ms         • at AC       13,4g / 5 ms, 6,5g / 10 ms         • at DC       13,4g / 5 ms, 6,5g / 10 ms         • at DC       10 000 000         • at DC       5000 000         • of the contactor with added auxiliary switch block typical       10	product designation	Power contactor
size of contactor     S12       product extension <ul> <li>function module for communication</li> <li>auxiliary switch</li> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>at AC in hot operating state per pole</li> <li>at AC in hot operating state per pole</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit rated value</li> <li>at AC</li> <li>bock resistance with sine pulse</li> <li>at AC</li> <li>at AC</li> <li>at DC</li> <li>back resistance with sine pulse</li> <li>at AC</li> <li>at AC</li> <li>at DC</li> <li>back resistance with sine pulse</li> <li>at AC</li> <li>at AC</li> <li>at AC</li> <li>bic the contactor typical</li> <li>10 000 000</li> <li>bic the contactor with added electronically optimized auxiliary switch block typical</li> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li></li></ul>	product type designation	3RT1
product extension         No           • function module for communication         No           • auxiliary switch         Yes           power loss [W] for rated value of the current         105 W           • 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         100 V           • of main circuit with degree of pollution 3 rated value         500 V           • of auxiliary circuit with degree of pollution 3 rated value         6 kV           • of auxiliary circuit rated value         8 s(5g / 5 ms, 4,2g / 10 ms           • at AC         8,5g / 5 ms, 4,2g / 10 ms           • at AC         13,4g / 5 ms, 6,5g / 10 ms           • at AC         10 000 000           • at AC         10 000 000           • at AC         10 000 000           • at DC         10 000 000           • at AC         10 000 000           • at AC         10 000 000           • at AC         10 000 000           • at	General technical data	
• function module for communicationNo• auxiliary switchYespower loss [W] for rated value of the current105 W• at AC in hot operating state per pole35 W• without load current share typical10 Winsulation voltage100 V• of main circuit with degree of pollution 3 rated value1000 V• of main circuit with degree of pollution 3 rated value1000 V• of main circuit with degree of pollution 3 rated value6 kV• of main circuit rated value6 kV• of main contexts according to EN 60947-18 kV• of auxiliary circuit rated value6 kV• of auxiliary circuit rated value8 kSy / 5 ms, 4.2g / 10 ms• at AC8,5g / 5 ms, 4.2g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC10,4g / 5 ms, 6,5g / 10 ms• at AC10,4g / 5 ms, 6,5g / 10 ms• at AC10,4g / 5 ms, 6,5g / 10 ms• at AC10,4g / 5 ms, 6,5g / 10 ms• at AC10,4g / 5 ms, 6,5g / 10 ms• at AC10,000 000• at AC </td <td>size of contactor</td> <td>S12</td>	size of contactor	S12
• auxiliary switchYespower loss [W] for rated value of the current	product extension	
power loss [W] for rated value of the current• at AC in hot operating state105 W• at AC in hot operating state per pole35 W• without load current share typical10 WInsulation voltage100 V• of main circuit with degree of pollution 3 rated value500 V• of main circuit rated value500 V• of main circuit rated value6 kV• of main circuit rated value6 kV• of main circuit rated value6 kV• of auxiliary circuit rated value6 kV• of auxiliary circuit go ter Safe isolation between coll and main contacts according to EN 60947-1600 Vshock resistance at rectangular impulse8,5g / 5 ms, 4,2g / 10 ms• at AC8,5g / 5 ms, 4,2g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC10,000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000	<ul> <li>function module for communication</li> </ul>	No
• at AC in hot operating state105 W• at AC in hot operating state per pole35 W• without load current share typical10 Winsulation voltage10 00 V• of main circuit with degree of pollution 3 rated value1000 V• of auxiliary circuit with degree of pollution 3 rated value500 V• of main circuit rated value6 kV• of auxiliary circuit rated value8 kV• of auxiliary circuit rated value6 kVmaximum permissible voltage for safe isolation between coll and main contacts according to EN 60947-1600 Vshock resistance at rectangular impulse8,5g / 5 ms, 4,2g / 10 ms• at AC8,5g / 5 ms, 4,2g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 ms• at DC10 000 000• at DC10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000	<ul> <li>auxiliary switch</li> </ul>	Yes
• at AC in hot operating state per pole35 W• without load current share typical10 Winsulation voltage10 00 V• of main circuit with degree of pollution 3 rated value500 V• of auxiliary circuit with degree of pollution 3 rated value500 V• of main circuit rated value8 kV• of main circuit rated value6 kV• of auxiliary circuit rated value6 kV• of auxiliary circuit rated value690 V• of auxiliary circuit rated value690 V• of auxiliary circuit rated value8,5g / 5 ms, 4,2g / 10 ms• at AC8,5g / 5 ms, 4,2g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 ms• at DC5000 000• at AC10 000 000• at DC10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000	power loss [W] for rated value of the current	
• without load current share typical10 Winsulation voltage1000 V• of main circuit with degree of pollution 3 rated value1000 V• of auxiliary circuit with degree of pollution 3 rated value1000 Vsurge voltage resistance500 V• of main circuit rated value8 kV• of main circuit rated value6 kVmaximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1690 Vshock resistance at rectangular impulse8,5g / 5 ms, 4,2g / 10 ms• at AC8,5g / 5 ms, 4,2g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000	<ul> <li>at AC in hot operating state</li> </ul>	105 W
insulation voltage1000 V• of main circuit with degree of pollution 3 rated value1000 V• of auxiliary circuit with degree of pollution 3 rated value500 Vsurge voltage resistance8 kV• of main circuit rated value8 kV• of auxiliary circuit rated value6 kVmaximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1690 Vshock resistance at rectangular impulse6 kS / 5 ms, 4,2g / 10 ms• at AC8,5g / 5 ms, 4,2g / 10 ms• at DC8,5g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000	<ul> <li>at AC in hot operating state per pole</li> </ul>	35 W
of main circuit with degree of pollution 3 rated value1 000 Vof auxiliary circuit with degree of pollution 3 rated value500 Vsurge voltage resistance500 Vof main circuit rated value8 kVof auxiliary circuit rated value6 kVmaximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1690 Vshock resistance at rectangular impulse6,5g / 5 ms, 4,2g / 10 ms• at AC8,5g / 5 ms, 4,2g / 10 ms• at AC8,5g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000	<ul> <li>without load current share typical</li> </ul>	10 W
• of auxiliary circuit with degree of pollution 3 rated value500 Vsurge voltage resistance500 V• of main circuit rated value8 kV• of auxiliary circuit rated value6 kVmaximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1690 Vshock resistance at rectangular impulse6 kJ• at AC8,5g / 5 ms, 4,2g / 10 ms• at AC8,5g / 5 ms, 4,2g / 10 ms• at AC8,5g / 5 ms, 4,2g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000	insulation voltage	
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• of main circuit rated value8 kV• of auxiliary circuit rated value6 kVmaximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1690 Vshock resistance at rectangular impulse690 V• at AC8,5g / 5 ms, 4,2g / 10 ms• at DC8,5g / 5 ms, 4,2g / 10 ms• at AC8,5g / 5 ms, 4,2g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 ms• at DC10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000		500 V
• of auxiliary circuit rated value6 kVmaximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1690 Vshock resistance at rectangular impulse6 kV• at AC8,5g / 5 ms, 4,2g / 10 ms• at DC8,5g / 5 ms, 4,2g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 ms• at DC10 000 000• at DC5 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000	surge voltage resistance	
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1690 Vshock resistance at rectangular impulse690 V• at AC8,5g / 5 ms, 4,2g / 10 ms• at DC8,5g / 5 ms, 4,2g / 10 msshock resistance with sine pulse13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 ms• at DC10 000 000• at DC10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000	<ul> <li>of main circuit rated value</li> </ul>	8 kV
coil and main contacts according to EN 60947-1shock resistance at rectangular impulse• at AC8,5g / 5 ms, 4,2g / 10 ms• at DC8,5g / 5 ms, 4,2g / 10 msshock resistance with sine pulse• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 ms• at DC10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000	<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
• at AC8,5g / 5 ms, 4,2g / 10 ms• at DC8,5g / 5 ms, 4,2g / 10 msshock resistance with sine pulse• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 ms• at DC10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000		690 V
• at DC8,5g / 5 ms, 4,2g / 10 msshock resistance with sine pulse8,5g / 5 ms, 4,2g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 ms• of contactor life (switching cycles)10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000	shock resistance at rectangular impulse	
shock resistance with sine pulse       intervention         • 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)       intervention         • of contactor typical       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       5 000 000         • of the contactor with added auxiliary switch block typical       10 000 000	• at AC	8,5g / 5 ms, 4,2g / 10 ms
• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 msmechanical service life (switching cycles)10,000,000• of contactor typical10,000,000• of the contactor with added electronically optimized auxiliary switch block typical5,000,000• of the contactor with added auxiliary switch block typical10,000,000	• at DC	8,5g / 5 ms, 4,2g / 10 ms
at DC         13,4g / 5 ms, 6,5g / 10 ms         13,4g / 5 ms, 6,5g / 10 ms         10 000 000         of contactor typical         of the contactor with added electronically optimized         auxiliary switch block typical         of the contactor with added auxiliary switch block         typical         10 000 000         10 000 000	shock resistance with sine pulse	
mechanical service life (switching cycles)       10 000 000         • of contactor typical       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       5 000 000         • of the contactor with added auxiliary switch block typical       10 000 000	• at AC	13,4g / 5 ms, 6,5g / 10 ms
<ul> <li>of contactor typical</li> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>10 000 000</li> <li>10 000 000</li> </ul>	• at DC	13,4g / 5 ms, 6,5g / 10 ms
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>5 000 000</li> <li>10 000 000</li> </ul>	mechanical service life (switching cycles)	
<ul> <li>auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>10 000 000</li> </ul>	<ul> <li>of contactor typical</li> </ul>	10 000 000
typical		5 000 000
reference code according to IEC 81346-2 Q		10 000 000
	reference code according to IEC 81346-2	Q
Substance Prohibitance (Date) 05/01/2012	Substance Prohibitance (Date)	05/01/2012
Ambient conditions	Ambient conditions	
installation altitude at height above sea level maximum 2 000 m	installation altitude at height above sea level maximum	2 000 m
ambient temperature	ambient temperature	
• during operation -25 +60 °C	during operation	-25 +60 °C
• during storage -55 +80 °C	during storage	-55 +80 °C

platty humidity at 55 °C according to IEC 60089-2-30 maximum         95 %           Almo Feruit	relative humidity minimum	10 %
Malh circuit         3           number of ND Contacts for main contacts         3           operating voltage         4           • al AC-3 rated value maximum         1000 V           • al AC-1 at 400 V at ambient temperature 40 °C         430 A           - rated value         430 A           - rated value         400 A           - up to 509 V at ambient temperature 40 °C         200 A           - rated value         400 A           - rated value         400 A           - at 400 V rated value </th <th></th> <th>95 %</th>		95 %
number of poles for main current circuit         3           number of NO contacts for main contacts         3           operating voltage         1000 V           • el AC-3 relet value maximum         1000 V           operational current         430 A           • el AC-1         430 A		
number of NO contacts for main contacts         3           operating voltage         1000 V           • it AC-3 rated value maximum         1000 V           • it AC-3 rated value maximum         1000 V           • it AC-3 rated value maximum         400 A           • it AC-1 at 400 V it ambient temperature 40 °C         430 A           • it AC-1         rated value         430 A           • it AC-1         main bient temperature 60 °C         400 A           - up to 500 V at ambient temperature 60 °C         200 A           - up to 1000 V at ambient temperature 60 °C         200 A           - up to 1000 V at ambient temperature 60 °C         200 A           - up to 1000 V at ambient temperature 60 °C         200 A           - up to 1000 V at ambient temperature 60 °C         200 A           - up to 1000 V at ambient temperature 60 °C         200 A           - up to 1000 V at ambient temperature 60 °C         200 A           - up to 1000 V rated value         400 A           - at 400 V rated value         400 A           - at 400 V rated value         400 A           - at 600 V rated value         300 A           - at 600 V rated value         300 A           - at 600 V rated value         300 A           - at 600 V rated value         332 A		
operating voltage         1000 V           • et AC-3 rated value maximum         1000 V           • et AC-3 rated value maximum         1000 V           • et AC-4 rated value maximum         400 A           • et AC-4 rated value         430 A           • et AC-4 rated value         400 A           - up to 690 V at ambient temperature 60 °C         400 A           - up to 1000 V at ambient temperature 60 °C         200 A           - up to 1000 V at ambient temperature 60 °C         200 A           - up to 1000 V at ambient temperature 60 °C         200 A           - up to 1000 V at ambient temperature 60 °C         200 A           - up to 1000 V at ambient temperature 60 °C         200 A           - at 400 V rated value         400 A           - at 600 V rated value         300 A	•	
• at AC-3 rated value maximum     1 000 V       opprational current     1 000 V       • at AC-3 rated value maximum     1 000 V       • at AC-3 rated value maximum     40 C       • at AC-1 at 400 V i ambient temperature 40 °C     430 A       - up to 680 V at ambient temperature 60 °C     - 400 A       - up to 680 V at ambient temperature 60 °C     - 400 A       - up to 1000 V at ambient temperature 60 °C     - 400 A       - up to 1000 V at ambient temperature 60 °C     - 400 A       - up to 1000 V at ambient temperature 60 °C     - 400 A       - up to 1000 V at ambient temperature 60 °C     - 400 A       - up to 1000 V at ambient temperature 60 °C     - 400 A       - up to 1000 V rated value     - 400 A       - at 400 V rated value     - 400 A       - at 400 V rated value     - 400 A       - at 400 V rated value     - 400 A       - at 400 V rated value     - 400 A       - at 400 V rated value     - 400 A       - at 400 V rated value     - 400 A       - at 400 V rated value     - 400 A       - at 400 V rated value     - 400 A       - at 400 V rated value     - 400 A       - at 400 V rated value     - 400 A       - at 400 V rated value     - 400 A       - at 400 V rated value     - 400 A       - at 600 V rated value     - 400 A		3
operational current       430 A         • at AC-1 at 400 V at ambient temperature 40 °C rated value       430 A         • up to 680 V at ambient temperature 40 °C rated value       430 A         - up to 680 V at ambient temperature 60 °C rated value       400 A         - up to 1000 V at ambient temperature 60 °C rated value       400 A         - up to 1000 V at ambient temperature 60 °C rated value       400 A         - up to 1000 V at ambient temperature 60 °C rated value       400 A         - up to 1000 V rated value       400 A         - at 400 V rated value       400 A         - at 600 V rated value       400 A         - at 400 V rated value       300 A         • at AC-3a       400 V rated value       300 A         • at AC-4 at 400 V rated value       300 A         • at AC-5a up to 690 V rated value n=20 rated value       335 A         • at AC-5a       105 A for current peak value n=20 rated value       395 A	<ul> <li>at AC-3 rated value maximum</li> </ul>	1 000 V
<ul> <li>A AC-1 at 400 V at ambient temperature 40 °C rated value</li> <li>at AC-1</li> <li>up to 680 V at ambient temperature 40 °C rated value</li> <li>up to 580 V at ambient temperature 40 °C rated value</li> <li>up to 1000 V at ambient temperature 40 °C rated value</li> <li>up to 1000 V at ambient temperature 40 °C rated value</li> <li>up to 1000 V at ambient temperature 40 °C rated value</li> <li>up to 1000 V at ambient temperature 40 °C rated value</li> <li>at 4C-3</li> <li>at 4C-4</li> <li>at 4C-4<!--</td--><td><ul> <li>at AC-3e rated value maximum</li> </ul></td><td>1 000 V</td></li></ul>	<ul> <li>at AC-3e rated value maximum</li> </ul>	1 000 V
rated value         • ait AC-1	operational current	
		430 A
rated value400 Aup to 500 V at ambient temperature 60 °C200 Aup to 1000 V at ambient temperature 60 °C200 Aup to 1000 V at ambient temperature 60 °C200 Aat 400 V rated value400 Aat 600 V rated value305 Aat 600 V rated value318 Aat AC-5a		
		430 A
		400.4
		400 A
rated value200 A- up to 1000 V at ambient temperature 60 °C rated value200 A• at AC-3 at 500 V rated value400 A- at 500 V rated value400 A- at 600 V rated value350 A- at 1000 V rated value350 A- at AC-5a up 16 400 V rated value350 A- at AC-5a up 16 400 V rated value350 A- at AC-5a up 16 400 V rated value350 A- at AC-6a up 16 200 V for current peak value n=20 rated value395 A- up 16 000 V for current peak value n=20 rated value395 A- up 16 1000 V for current peak value n=20 rated 		200 A
rated value400 A- at 400 V rated value400 A- at 500 V rated value400 A- at 600 V rated value400 A- at 600 V rated value180 A- at 600 V rated value400 A- at 600 V rated value300 A- at 600 V rated value300 A- at 7000 V rated value300 A- at AC-5a up to 400 V rated value305 A- at AC-5a up to 400 V rated value n=20 rated395 A- at 000 V for current peak value n=20 rated395 A- up to 500 V for current peak value n=20 rated395 Avalue- up to 500 V for current peak value n=20 rated- up to 500 V for current peak value n=20 rated395 Avalue- up to 500 V for current peak value n=20 rated- up to 500 V for current peak value n=20 rated395 Avalue- up to 500 V for current peak value n=20 ratedvalue- up to 500 V for current peak value n=20 rated- up to 500 V for current peak value n=30 rated264 Avalue- up to 500 V for current peak value n=30 rated- up to 500 V for current peak value n=30 rated264 Avalue- up to 500 V for current peak value n=30 rated- up to 500 V for current peak value n=30 rated264 Avalue- up to 500 V for current peak value n=30 rated- up to 500 V for current peak value n		200 A
	• at AC-3	
	— at 400 V rated value	400 A
	— at 500 V rated value	400 A
• at AC-3e       400 A         - at 400 V rated value       400 A         - at 500 V rated value       400 A         - at 500 V rated value       400 A         - at 600 V rated value       400 A         - at 1000 V rated value       180 A         - at AC-4 at 400 V rated value       350 A         - at AC-5 aup to 690 V rated value       332 A         - at AC-5 bup to 400 V rated value       332 A         - at AC-6a       -         - up to 500 V for current peak value n=20 rated value       395 A         - up to 500 V for current peak value n=20 rated value       395 A         - up to 690 V for current peak value n=20 rated value       395 A         - up to 1000 V for current peak value n=20 rated value       395 A         - up to 690 V for current peak value n=20 rated value       395 A         - up to 1000 V for current peak value n=20 rated value       395 A         - up to 1000 V for current peak value n=20 rated value       395 A         - up to 1000 V for current peak value n=30 rated value       264 A         - up to 500 V for current peak value n=30 rated value       264 A         - up to 1000 V for current peak value n=30 rated value       264 A         - up to 500 V for current peak value n=30 rated value       264 A         value       300 m	— at 690 V rated value	400 A
at 400 V rated value400 A at 500 V rated value400 A at 680 V rated value400 A at 1000 V rated value800 A at 1000 V rated value350 A- at AC-5a up to 690 V rated value332 A- at AC-5a up to 400 V rated value332 A- at AC-6a	— at 1000 V rated value	180 A
at 500 V rated value400 A at 500 V rated value400 A at 1000 V rated value180 A at 1000 V rated value350 A at AC-5a up to 690 V rated value378 A at AC-5b up to 400 V rated value332 A at AC-6a	● at AC-3e	
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<ul> <li>at AC-6a         <ul> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 1000 V for current peak value n=30 rated value</li> <li>at 400 V for current for approx. 200000 operating cycles at AC-4             <ul></ul></li></ul></li></ul>		180 A
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value     value       minimum cross-section in main circuit at maximum AC-1 rated value     300 mm²       operational current for approx. 200000 operating cycles at AC-4     150 A		
minimum cross-section in main circuit at maximum AC-1       300 mm²         operational current for approx. 200000 operating       cycles at AC-4         • at 400 V rated value       150 A		180 A
rated value       operational current for approx. 200000 operating cycles at AC-4       • at 400 V rated value     150 A		
operational current for approx. 200000 operating       cycles at AC-4       • at 400 V rated value       150 A		300 mm <sup>2</sup>
• at 400 V rated value 150 A		
• at 400 V rated value 150 A		
	-	150 A
operational current		
• at 1 current path at DC-1		

	— at 24 V rated value	400 A
• with 2 current paths in series at DC-1         00 A           - at 220 V rated value         400 A           - at 220 V rated value         2 A           • with 3 current path in series at DC-1         -           - at 220 V rated value         400 A           - at 210 V rated value         400 A           - at 220 V rated value         52 A           - at 220 V rated value         52 A           - at 220 V rated value         00 A           - at 220 V rated value         01 B A           - at 220 V rated value         25 A           - at 220 V rated value         00 A           - at 220 V rated value         0.37 A           • with 3 current path in series at		
		0.6 A
	-	
	— at 110 V rated value	400 A
	— at 220 V rated value	
• with 3 current paths in series at DC-1         400 A           - at 24 V rited value         400 A           - at 220 V rated value         400 A           - at 220 V rated value         11 A           - at 600 V rated value         52 A           • at 1 current path at DC-3 at DC-5	— at 440 V rated value	4 A
	— at 600 V rated value	2 A
	<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
	— at 24 V rated value	400 A
	— at 110 V rated value	400 A
	— at 220 V rated value	400 A
• et 1 current path at DC-3 at DC-5         400 A           - af 24 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         0.18 A           - at 24 V rated value         0.18 A           - at 440 V rated value         0.18 A           - at 440 V rated value         400 A           - at 440 V rated value         400 A           - at 440 V rated value         2.5 A           - at 440 V rated value         0.65 A           - at 220 V rated value         0.37 A           • with 3 current paths in series at DC-3 at DC-3 th DC-3         - at 400 V rated value           - at 220 V rated value         400 A           - at 220 V rated value         400 A           - at 220 V rated value         0.37 A           • with 3 current paths in series at DC-3 at DC-3 th DC-3         - at 230 V rated value           - at 230 V rated value         400 A           - at 440 V rated value         400 A           - at 440 V rated value         200 kW           - at 440 V rated value         200 kW           - at 440 V rated value         200 kW           - at 230 V rated value         200 kW           - at 230 V rate	— 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
• with 2 current paths in series at DC-3 at DC-5         400 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
• with 3 current paths in series at DC-3 at DC-5         400 A           at 24 V rated value         400 A           at 110 V rated value         400 A           at 120 V rated value         400 A           at 220 V rated value         400 A           at 440 V rated value         14 A           at 600 V rated value         0.75 A           operating power         •           • at AC-3         -           at 200 V rated value         200 kW           at 400 V rated value         200 kW           at 400 V rated value         250 kW           at 230 V rated value         250 kW           at 240 V rated value         250 kW           at 230 V rated value         250 kW           at 400 V rated value         200 kW           at 400 V rated value         200 kW           at 230 V rated value         200 kW           at 400 V rated value         200 kW           at 690 V rated value         250 kW           at 690 V rated valu	— 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>	
	-	400 A
		400 A
at 600 V rated value0.75 Aoperating power- at 230 V rated value- at 230 V rated value132 kW- at 400 V rated value200 kW- at 500 V rated value250 kW- at 690 V rated value400 kW- at 1000 V rated value250 kW- at 230 V rated value250 kW- at 230 V rated value250 kW- at 230 V rated value250 kW- at 400 V rated value250 kW- at 400 V rated value200 kW- at 400 V rated value200 kW- at 500 V rated value250 kW- at 690 V rated value250 kW- at 1000 V rated value250 kW- at 900 V rated value250 kW- at 1000 V rated value250 kW- at 900 V rated value250 kW- at 000 V rated value250 kW- at 200 V rated value250 kW- at 200 V rated value250 kW- at 1000 V rated value250 kW- at 000 V rated value131 kW- at 400 V rated value250 kW- at 200 V rated value270 000 VA- at 000 V for current peak value n=20 rated value150 000 kVA- up to 600 V for current peak value n=20 rated value340 000 VA- up to 1000 V for current peak value n=20 rated value310 000 VA- up to 1000 V for current peak value n=20 rated value310 000 VA-	— at 220 V rated value	
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<ul> <li>at AC-3e         <ul> <li>at AC-3e</li> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>at 690 V rated value</li> <li>at 690 V rated value</li> <li>by V rated value</li> <li>at 400 V rated value</li> <li>by V rated value</li> <li>constant 400 V rated value</li> <li>by V rated value</li> <li>constant 400 V rated value</li> <li>constant 400 V rated value</li> <li>by V rated value</li> <li>constant 400 V rated value</li> <li>constant 400 V rated value n=20 rated value</li> <li>constant 400 V for current peak value n=20 rated value</li> <li>constant 400 V for current peak value n=20 rated value</li> <li>constant 400 V A</li> <li>value</li> <li>value value</li> <li>value net 400 V A</li> </ul> <ul> <li>value net 400 V A</li> <li>value net 400 V A</li> </ul> <ul> <li>value net 400 V A</li> <li>value net 400 V A</li> <li>value net 400 V A</li> <li>value net 400 V A&lt;</li></ul></li></ul>		
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• at 690 V rated value133 kWoperating apparent power at AC-6a150 000 kVA• up to 230 V for current peak value n=20 rated value150 000 kVA• up to 400 V for current peak value n=20 rated value270 000 VA• up to 500 V for current peak value n=20 rated value340 000 VA• up to 690 V for current peak value n=20 rated value470 000 VA• up to 1000 V for current peak value n=20 rated value310 000 VA• up to 1000 V for current peak value n=20 rated value510 000 VA• up to 1000 V for current peak value n=20 rated value510 000 VA• up to 1000 V for current peak value n=20 rated value510 000 VA• up to 1000 V for current peak value n=20 rated value510 000 VA• up to 1000 V for current peak value n=20 rated value510 000 VA• up to 1000 V for current peak value n=20 rated value510 000 VA• up to 1000 V for current peak value n=20 rated value510 000 VA• up to 1000 V for current peak value n=20 rated value510 000 VA• up to 1000 V for current peak value n=20 rated value510 000 VA• up to 1000 V for current peak value n=20 rated value510 000 VA• up to 1000 V for current peak value n=20 rated value510 000 VA• up to 1000 V for current peak value n=20 rated value510 000 VA• up to 1000 V for current peak value n=20 rated value510 000 VA• up to 1000 V for current peak value n=20 rated value510 000 VA• up to 1000 V for current peak value n=20 rated value510 000 VA• up to 1000 V for current peak value n=20 rated value510 000 VA		
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<ul> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 1000 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <li>150 000 kVA</li> <li>150 000 kVA</li> <li>150 000 VA</li> </ul>		133 KW
<ul> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 1000 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> </ul>		
• up to 500 V for current peak value n=20 rated value     • up to 690 V for current peak value n=20 rated value     • up to 1000 V for current peak value n=20 rated     value     operating apparent power at AC-6a		
• up to 690 V for current peak value n=20 rated value     • up to 1000 V for current peak value n=20 rated     value     operating apparent power at AC-6a		
• up to 1000 V for current peak value n=20 rated value     operating apparent power at AC-6a		
value operating apparent power at AC-6a		
		310 000 VA
up to 230 V for current peak value n=30 rated value     100 000 VA	operating apparent power at AC-6a	
	<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	100 000 VA

<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	180 000 VA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	220 000 VA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	310 000 VA
<ul> <li>up to 1000 V for current peak value n=30 rated</li> </ul>	310 000 VA
value	
short-time withstand current in cold operating state	
up to 40 °C	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	6 600 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	5 761 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	4 143 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	2 635 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	2 088 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	2 000 1/h
• at DC	2 000 1/h
operating frequency	
<ul> <li>at AC-1 maximum</li> </ul>	700 1/h
• at AC-2 maximum	200 1/h
• at AC-3 maximum	500 1/h
• at AC-3e maximum	500 1/h
• at AC-4 maximum	130 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
• at 50 Hz rated value	240 277 V
• at 60 Hz rated value	240 277 V
control supply voltage at DC	
• rated value	240 277 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	0.8 1.1
• at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
apparent pick-up power of magnet coil at AC	
• at 50 Hz	830 VA
• at 60 Hz	830 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.9
• at 60 Hz	0.9
apparent holding power of magnet coil at AC	
• at 50 Hz	9.2 VA
• at 60 Hz	9.2 VA
inductive power factor with the holding power of the	
coil	
• at 50 Hz	0.9
• at 60 Hz	0.9
closing power of magnet coil at DC	920 W
holding power of magnet coil at DC	10 W
closing delay	
• at AC	45 100 ms
• at DC	45 100 ms
opening delay	
• at AC	60 100 ms
• at DC	60 100 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	

number of NC contacts for auxiliary contacts instantaneous contact	2
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	6 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
operational current at DC-12	
• at 24 V rated value	10 A
<ul> <li>at 48 V rated value</li> </ul>	6 A
• at 60 V rated value	6 A
• at 110 V rated value	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	
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]	
<ul> <li>for 3-phase AC motor</li> </ul>	
— 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	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
<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
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	V, 50 kA) 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	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded parts	

— forwards	20 mm			
— upwards	10 mm			
— at the side	10 mm			
— downwards	10 mm	10 mm		
<ul> <li>for live parts</li> </ul>				
— forwards	20 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	10 mm	0 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>	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	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				
solid or stranded	0.5 4 mm²			
	0.5 2.5 mm <sup>2</sup>			
finely stranded with core end processing				
type of connectable conductor cross-sections				
<ul> <li>for auxiliary contacts</li> </ul>	$2x (0.5 + 1.5 mm^2) 2x (0.7)$	$= 2 E mm^2 may 2y$	$(0.75 (1.20)^2)$	
— solid	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75			
— solid or stranded	2x (0,5 1,5 mm <sup>2</sup> ), 2x (0,75 2,5 mm <sup>2</sup> ), max. 2x (0,75 4 mm <sup>2</sup> ) 2x (0,5 1,5 mm <sup>2</sup> ), 2x (0,75 2,5 mm <sup>2</sup> )			
- finely stranded with core end processing $2x (0.5 \dots 1.5 \text{ mm}^2), 2x (0.75 \dots 2.5 \text{ mm}^2)$ • at AWG cables for auxiliary contacts $2x (20 - 16) 2x (18 - 14) 1x 12$				
• at AWG cables for auxiliary contacts     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				
mirror contact according to IEC 60947-4-1	Yes			
<ul> <li>positively driven operation according to IEC 60947-</li> </ul>	No			
5-1				
B10 value with high demand rate according to SN 31920	1 000 000			
protection class IP on the front according to IEC	IP00; IP20 with box terminal	l/cover		
60529				
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				
			Functional	
General Product Approval		EMC	Safety/Safety of	
			Machinery	
Confirmation		~	Tuno Examination	
	יחר	kλ	<u>Type Examination</u> <u>Certificate</u>	
	101	<u></u>		
CSA UL	<b>B11B</b>	RCM		
Declaration of Conformity Test Certifica				
	ates	Marine / Shipping		
	ates	Marine / Shipping		

UK CA	UK CACE EG-Konf.Type Test Certific- ates/Test ReportSpecial Test Certific- 					
Marine / Shipping			other			
Image: Presented and the second se						
other     Railway       Miscellaneous     Special Test Certific- ate						
Further information						
Information- and Downloadcenter (Catalogs, Brochures,) <u>https://www.siemens.com/ic10</u> Industry Mall (Online ordering system)						
	https://mail.industry.siemens.com/mail/en/en/Catalog/product?mlfb=3RT1075-6AU36					
Cax online generator <u>http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&amp;mlfb=3RT1075-6AU36</u> Service&Support (Manuals, Certificates, Characteristics, FAQs)						

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1075-6AU36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1075-6AU36&lang=en

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1075-6AU36/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1075-6AU36&objecttype=14&gridview=view1

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