## **SIEMENS**

Data sheet 3RT2037-1AD04



power contactor, AC-3e/AC-3, 65 A, 30 kW / 400 V, 3-pole, 42 V AC, 50 Hz, auxiliary contacts: 2 NO + 2 NC, screw terminal, size: S2, removable auxiliary switch

size of contactor  product extension  • function module for communication • function module for communication • auxiliary switch • at AC in hot operating state current • at AC in hot operating state per pole • without load current share typical • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit vith degree of pollution 3 rated value • of auxiliary circuit rated value • of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2  Quaticuit circuit rated value • of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2	product brand name	SIRIUS		
Size of contactor  • function module for communication • auxiliary switch  • at AC in hot operating state • at AC in hot operating state per pole • without load current share typical  insulation votage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of main circuit rated value • of maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse • at AC  • at AC  • at AC  9.8g / 5 ms, 6.5g / 10 ms  shock resistance with sine pulse • at AC  • of contactor with added electronically optimized auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical reference code according to IER 68146-2  Question of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical	product designation			
size of contactor  product extension  • function module for communication • auxiliary switch  o at AC in hot operating state • at AC in hot operating state per pole • without load current share typical  insulation voitage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit rated value • of origination on the state of the contact or value of the contacts according to EN 60947-1  shock resistance at rectangular impulse • at AC •	product type designation	3RT2		
### Product extension    function module for communication   No     auxiliary switch   No     power loss [W] for rated value of the current	General technical data			
• function module for communication • auxiliary switch No  power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole • without load current share typical • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit rated value • at AC  • at AC	size of contactor	S2		
* auxiliary switch     * at AC in hot operating state per pole     * at AC in hot operating state per pole     * without load current share typical     * of main circut with degree of pollution 3 rated value     * of main circut with degree of pollution 3 rated value     * of main circut with degree of pollution 3 rated value     * of main circut with degree of pollution 3 rated value     * of main circut with degree of pollution 3 rated value     * of main circut with degree of pollution 3 rated value     * of main circut rated value     * of waxiliary circuit rated value     * of waxiliary circuit rated value     * of waxiliary circuit rated value     * of auxiliary circuit rated value     * of auxiliary circuit rated value     * of auxiliary switch biock typical     * of the contactor with added electronically optimized auxiliary switch block typical     * of the contactor with added auxiliary switch block typical     * of the contactor with added auxiliary switch block typical     * of the contactor with added auxiliary switch block typical     * of the contactor with added auxiliary switch block typical     * of the contactor with added auxiliary switch block typical     * of the contactor with added auxiliary switch block typical     * of the contactor with added auxiliary switch block typical     * of the contactor with added auxiliary switch block typical     * of the contactor with added auxiliary switch block typical     * of the contactor with added auxiliary switch block typical     * of the contactor with ad	product extension			
power loss [W] for rated value of the current  at AC in hot operating state = 11.4 W  at AC in hot operating state per pole 3.8 W  awithout load current share typical 16 W  insulation voltage  of main circuit with degree of pollution 3 rated value 690 V  of main circuit with degree of pollution 3 rated value 690 V  surge voltage resistance  of main circuit rated value 6 kV  of auxiliary circuit rated value 6 kV  maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse 4 AC 9.8g / 5 ms, 6.5g / 10 ms  shock resistance with sine pulse 15.3g / 5 ms, 10.1g / 10 ms  mechanical service life (operating cycles) 10 000 000 000 000 000 000 000 000 000	<ul> <li>function module for communication</li> </ul>	No		
at AC in hot operating state per pole 3.8 W without load current share typical 16 W  insulation voltage  of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value so f auxiliary circuit with degree of pollution 3 rated value so f auxiliary circuit with degree of pollution 3 rated value so f auxiliary circuit with degree of pollution 3 rated value so f auxiliary circuit rated value of auxiliary circuit rated value for protective separation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse at AC stack sistance with sine pulse of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to EC 81346-2 Q  Substance (Date) 10/01/2014  Initiation altitude at height above sea level maximum 2 000 m  ambient temperature outing storage 55 +80 °C  relative humidity at 55 °C according to IEC 60068-2-30 maximum auximum 10 %  relative humidity at 55 °C according to IEC 60068-2-30 maximum auximum 2 5 %  discincincut	auxiliary switch	No		
• at AC in hot operating state per pole • without load current share typical  insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of main circuit rated value • of auxiliary circuit rated value • othe contact according to EN 60947-1  10 000 000 • of contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor typical • of the cont	power loss [W] for rated value of the current			
without load current share typical  insulation voltage     of main circuit with degree of pollution 3 rated value     of auxiliary circuit with degree of pollution 3 rated value     of main circuit rated value     of main circuit rated value     of auxiliary circuit rated value     of contactors with sine pulse     of contactor with added electronically optimized auxiliary switch block typical     of the contactor with added electronically optimized auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch	<ul> <li>at AC in hot operating state</li> </ul>	11.4 W		
insulation voltage  of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit rated value of main circuit rated value of amin circuit rated value of auxiliary circuit rated value of at AC of auxiliary circuit rated value of the contactor with sine pulse of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contac	<ul> <li>at AC in hot operating state per pole</li> </ul>	3.8 W		
of main circuit with degree of pollution 3 rated value of auxiliary circuit mith degree of pollution 3 rated value  of auxiliary circuit rated value of main circuit rated value of auxiliary circuit rated value of kV  maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse of at AC  shock resistance with sine pulse of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added	<ul> <li>without load current share typical</li> </ul>	16 W		
of auxiliary circuit with degree of pollution 3 rated value  surge voltage resistance of main circuit rated value of auxiliary switch sole care rectangular impulse of auxiliary switch sine pulse of contactor with sine pulse of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary swi	insulation voltage			
surge voltage resistance  of main circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value e of auxiliary circuit rated value  maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse out AC  shock resistance with sine pulse out AC  shock resistance with sine pulse out AC  15.3g / 5 ms, 10.1g / 10 ms  mechanical service life (operating cycles) of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical out of the contactor with added auxiliary switch block typical out of the contactor with added auxiliary switch block typical out of the contactor with added auxiliary switch block typical out of the contactor with added auxiliary switch block typical out of the contactor with added auxiliary switch block typical out of the contactor with added auxiliary switch block typical out of the contactor with added auxiliary switch block typical out of the contactor with add	• of main circuit with degree of pollution 3 rated value	690 V		
of main circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value  of auxiliary circuit rated value  of kV  aximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse	<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V		
of auxiliary circuit rated value  maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse	surge voltage resistance			
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse	of main circuit rated value	6 kV		
shock resistance at rectangular impulse	of auxiliary circuit rated value	6 kV		
• at AC  shock resistance with sine pulse • at AC  15.3g / 5 ms, 10.1g / 10 ms  mechanical service life (operating cycles) • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2  Q  Substance Prohibitance (Date)  wholent conditions  installation altitude at height above sea level maximum  ambient temperature • during operation • during operation • during storage  relative humidity minimum  10 %  relative humidity minimum  10 %  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Alain circuit		400 V		
shock resistance with sine pulse	shock resistance at rectangular impulse			
at AC	• at AC	9.8g / 5 ms, 6.5g / 10 ms		
mechanical service life (operating cycles)  • of contactor typical  • of the contactor with added electronically optimized auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added auxiliary switch block typical  • of the contactor with added electronically optimized  • of the contactor with added electroni	shock resistance with sine pulse			
of contactor typical     of the contactor with added electronically optimized auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     10 000 000  reference code according to IEC 81346-2 Q Substance Prohibitance (Date)     10/01/2014  Ambient conditions  installation altitude at height above sea level maximum 2 000 m  ambient temperature     oduring operation     -25 +60 °C     oduring storage     relative humidity minimum 10 %  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit	• at AC	15.3g / 5 ms, 10.1g / 10 ms		
of the contactor with added electronically optimized auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     of the contactor with added auxiliary switch block typical     10 000 000  reference code according to IEC 81346-2  Substance Prohibitance (Date)     10/01/2014  Installation altitude at height above sea level maximum     2 000 m  ambient temperature     oduring operation     oduring storage     during storage     relative humidity minimum     10 %  relative humidity at 55 °C according to IEC 60068-2-30     maximum  Main circuit	mechanical service life (operating cycles)			
auxiliary switch block typical  of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2  Q Substance Prohibitance (Date)  Initialiation altitude at height above sea level maximum  ambient temperature  of during operation  during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  In 0 000 000  10	of contactor typical	10 000 000		
reference code according to IEC 81346-2  Substance Prohibitance (Date)  Installation altitude at height above sea level maximum  ambient temperature  during operation during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit		5 000 000		
Substance Prohibitance (Date)  Installation altitude at height above sea level maximum  ambient temperature  during operation during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit	<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000		
installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  2 000 m  -25 +60 °C  -25 +80 °C  10 %  95 %	reference code according to IEC 81346-2	Q		
installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Alain circuit	Substance Prohibitance (Date)	10/01/2014		
ambient temperature  • during operation • during storage • during storage -55 +80 °C  relative humidity minimum 10 %  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit	Ambient conditions			
<ul> <li>during operation</li> <li>during storage</li> <li>telative humidity minimum</li> <li>relative humidity at 55 °C according to IEC 60068-2-30 maximum</li> </ul> ### 15 % ###	installation altitude at height above sea level maximum	2 000 m		
● during storage -55 +80 °C  relative humidity minimum 10 %  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit	ambient temperature			
relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit	during operation	-25 +60 °C		
relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum  Aain circuit	during storage	-55 +80 °C		
maximum  Main circuit	relative humidity minimum	10 %		
		95 %		
number of poles for main current circuit 3	Main circuit			
	number of poles for main current circuit	3		

number of NO contacts for main contacts	3
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
at AC-3e rated value maximum	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated</li> </ul>	80 A
value	
• at AC-1	
<ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul>	80 A
— up to 690 V at ambient temperature 60 °C rated	70 A
value	
• at AC-3	
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value	47 A
• at AC-3e	
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value	47 A
• at AC-4 at 400 V rated value	55 A
• at AC-5a up to 690 V rated value	70.4 A
• at AC-5b up to 400 V rated value	53.9 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	56.9 A
— up to 400 V for current peak value n=20 rated value	56.9 A
— up to 500 V for current peak value n=20 rated value	56.9 A
— up to 690 V for current peak value n=20 rated value	47 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	38 A
— up to 400 V for current peak value n=30 rated value	38 A
— up to 500 V for current peak value n=30 rated value	38 A
— up to 690 V for current peak value n=30 rated value	38 A
minimum cross-section in main circuit at maximum AC-1 rated value	25 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at	
AC-4	
• at 400 V rated value	28 A
• at 690 V rated value	22 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	23 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
• with 2 current paths in series at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
• with 3 current paths in series at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
— at 000 v rated value	

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— at 24 V rated value	35 A			
— at 60 V rated value	6 A			
— at 220 V rated value	1 A			
— at 440 V rated value	0.1 A			
— at 600 V rated value	0.06 A			
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>				
— at 24 V rated value	55 A			
— at 60 V rated value	45 A			
— at 110 V rated value	25 A			
— at 220 V rated value	5 A			
— at 440 V rated value	0.27 A			
— at 600 V rated value	0.16 A			
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>				
— at 24 V rated value	55 A			
— at 60 V rated value	55 A			
— at 110 V rated value	55 A			
— at 220 V rated value	25 A			
— at 440 V rated value	0.6 A			
— at 600 V rated value	0.35 A			
operating power				
• at AC-2 at 400 V rated value	30 kW			
• at AC-3				
— at 230 V rated value	18.5 kW			
— at 400 V rated value	30 kW			
— at 500 V rated value	37 kW			
— at 690 V rated value	37 kW			
• at AC-3e				
— at 230 V rated value	18.5 kW			
— at 400 V rated value	30 kW			
— at 500 V rated value	37 kW			
— at 690 V rated value	37 kW			
operating power for approx. 200000 operating cycles at AC-				
4				
	=			
• at 400 V rated value	14.7 kW			
<ul><li>at 400 V rated value</li><li>at 690 V rated value</li></ul>	14.7 kW 20 kW			
• at 690 V rated value				
at 690 V rated value     operating apparent power at AC-6a	20 kW			
at 690 V rated value     operating apparent power at AC-6a     up to 230 V for current peak value n=20 rated value	20 kW 22.6 kVA			
<ul> <li>at 690 V rated value</li> <li>operating apparent power at AC-6a</li> <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> </ul>	20 kW 22.6 kVA 39.4 kVA			
at 690 V rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value  up to 400 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value	20 kW 22.6 kVA 39.4 kVA 49.2 kVA			
at 690 V rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value  up to 400 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value  up to 690 V for current peak value n=20 rated value	20 kW 22.6 kVA 39.4 kVA 49.2 kVA			
at 690 V rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value  up to 400 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value  up to 690 V for current peak value n=20 rated value  operating apparent power at AC-6a	20 kW  22.6 kVA 39.4 kVA 49.2 kVA 56.1 kVA			
at 690 V rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value  up to 400 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value  up to 690 V for current peak value n=20 rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=30 rated value	20 kW  22.6 kVA 39.4 kVA 49.2 kVA 56.1 kVA			
at 690 V rated value  operating apparent power at AC-6a      up to 230 V for current peak value n=20 rated value     up to 400 V for current peak value n=20 rated value     up to 500 V for current peak value n=20 rated value     up to 690 V for current peak value n=20 rated value  operating apparent power at AC-6a     up to 230 V for current peak value n=30 rated value     up to 400 V for current peak value n=30 rated value	20 kW  22.6 kVA 39.4 kVA 49.2 kVA 56.1 kVA			
at 690 V rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value  up to 400 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value  up to 690 V for current peak value n=20 rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=30 rated value  up to 400 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value	20 kW  22.6 kVA 39.4 kVA 49.2 kVA 56.1 kVA  15.1 kVA 26.2 kVA 32.8 kVA			
at 690 V rated value  operating apparent power at AC-6a      up to 230 V for current peak value n=20 rated value     up to 400 V for current peak value n=20 rated value     up to 500 V for current peak value n=20 rated value     up to 690 V for current peak value n=20 rated value  operating apparent power at AC-6a      up to 230 V for current peak value n=30 rated value     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 690 V for current peak value n=30 rated value  short-time withstand current in cold operating state up to 40 °C	20 kW  22.6 kVA 39.4 kVA 49.2 kVA 56.1 kVA  15.1 kVA 26.2 kVA 32.8 kVA			
at 690 V rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value  up to 400 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value  up to 690 V for current peak value n=20 rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=30 rated value  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 690 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 switching at zero current maximum	20 kW  22.6 kVA 39.4 kVA 49.2 kVA 56.1 kVA  15.1 kVA 26.2 kVA 32.8 kVA 45.3 kVA			
at 690 V rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value  up to 400 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value  up to 690 V for current peak value n=20 rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=30 rated value  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 690 V for current peak value n=30 rated value  up to 690 V for current peak value n=30 rated value  lup to 690 V for current peak value n=30 rated value  short-time withstand current in cold operating state up to 40 °C  limited to 1 s switching at zero current maximum  limited to 5 s switching at zero current maximum	20 kW  22.6 kVA 39.4 kVA 49.2 kVA 56.1 kVA  15.1 kVA 26.2 kVA 32.8 kVA 45.3 kVA  1 055 A; Use minimum cross-section acc. to AC-1 rated value 730 A; Use minimum cross-section acc. to AC-1 rated value			
at 690 V rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value  up to 400 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value  up to 690 V for current peak value n=20 rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=30 rated value  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 690 V for current peak value n=30 rated value  short-time withstand current in cold operating state up to 40 °C  limited to 1 s switching at zero current maximum  limited to 10 s switching at zero current maximum	20 kW  22.6 kVA 39.4 kVA 49.2 kVA 56.1 kVA  15.1 kVA 26.2 kVA 32.8 kVA 45.3 kVA  1 055 A; Use minimum cross-section acc. to AC-1 rated value 730 A; Use minimum cross-section acc. to AC-1 rated value 520 A; Use minimum cross-section acc. to AC-1 rated value			
at 690 V rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value  up to 400 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value  up to 690 V for current peak value n=20 rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=30 rated value  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 690 V for current peak value n=30 rated value  short-time withstand current in cold operating state up to 40 °C  limited to 1 s switching at zero current maximum  limited to 10 s switching at zero current maximum  limited to 30 s switching at zero current maximum	20 kW  22.6 kVA 39.4 kVA 49.2 kVA 56.1 kVA  15.1 kVA 26.2 kVA 32.8 kVA 45.3 kVA  1 055 A; Use minimum cross-section acc. to AC-1 rated value 730 A; Use minimum cross-section acc. to AC-1 rated value 520 A; Use minimum cross-section acc. to AC-1 rated value 336 A; Use minimum cross-section acc. to AC-1 rated value			
at 690 V rated value  operating apparent power at AC-6a      up to 230 V for current peak value n=20 rated value     up to 400 V for current peak value n=20 rated value     up to 500 V for current peak value n=20 rated value     up to 690 V for current peak value n=20 rated value     operating apparent power at AC-6a     up to 230 V for current peak value n=30 rated value     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 690 V for current peak value n=30 rated value     short-time withstand current in cold operating state up to 40 °C      Ilimited to 1 s switching at zero current maximum     Ilimited to 10 s switching at zero current maximum     Ilimited to 30 s switching at zero current maximum     Ilimited to 60 s switching at zero current maximum	20 kW  22.6 kVA 39.4 kVA 49.2 kVA 56.1 kVA  15.1 kVA 26.2 kVA 32.8 kVA 45.3 kVA  1 055 A; Use minimum cross-section acc. to AC-1 rated value 730 A; Use minimum cross-section acc. to AC-1 rated value 520 A; Use minimum cross-section acc. to AC-1 rated value			
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at 690 V rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value  up to 400 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value  up to 690 V for current peak value n=20 rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=30 rated value  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 690 V for current peak value n=30 rated value  up to 690 V for current peak value n=30 rated value  short-time withstand current in cold operating state up to 40 °C  limited to 1 s switching at zero current maximum  limited to 5 s switching at zero current maximum  limited to 30 s switching at zero current maximum  limited to 60 s switching at zero current maximum  limited to 60 s switching at zero current maximum  all limited to 60 s switching at zero current maximum  all limited to 60 s switching at zero current maximum  all limited to 60 s switching at zero current maximum  all limited to 60 s switching at zero current maximum  all limited to 60 s switching at zero current maximum  all limited to 60 s switching at zero current maximum	20 kW  22.6 kVA 39.4 kVA 49.2 kVA 56.1 kVA  15.1 kVA 26.2 kVA 32.8 kVA 45.3 kVA  1 055 A; Use minimum cross-section acc. to AC-1 rated value 730 A; Use minimum cross-section acc. to AC-1 rated value 520 A; Use minimum cross-section acc. to AC-1 rated value 336 A; Use minimum cross-section acc. to AC-1 rated value			
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at 690 V rated value      operating apparent power at AC-6a         up to 230 V for current peak value n=20 rated value         up to 400 V for current peak value n=20 rated value         up to 500 V for current peak value n=20 rated value         up to 690 V for current peak value n=20 rated value         operating apparent power at AC-6a         up to 230 V for current peak value n=30 rated value         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 690 V for current peak value n=30 rated value         sup to 690 V for current peak value n=30 rated value          short-time withstand current in cold operating state up to 40 °C          elimited to 1 s switching at zero current maximum         elimited to 10 s switching at zero current maximum         elimited to 30 s switching at zero current maximum         elimited to 60 s switching at zero current maximum         ro-load switching frequency         at AC  Operating frequency         at AC-1 maximum	22.6 kVA 39.4 kVA 49.2 kVA 56.1 kVA  15.1 kVA 26.2 kVA 32.8 kVA 45.3 kVA  1 055 A; Use minimum cross-section acc. to AC-1 rated value 730 A; Use minimum cross-section acc. to AC-1 rated value 520 A; Use minimum cross-section acc. to AC-1 rated value 336 A; Use minimum cross-section acc. to AC-1 rated value 272 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h			
operating apparent power at AC-6a         up to 230 V for current peak value n=20 rated value         up to 400 V for current peak value n=20 rated value         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 690 V for current peak value n=20 rated value         operating apparent power at AC-6a         up to 230 V for current peak value n=30 rated value         up to 500 V for current peak value n=30 rated value         up to 690 V for current peak value n=30 rated value         up to 690 V for current peak value n=30 rated value         short-time withstand current in cold operating state up to 40 °C         elimited to 1 s switching at zero current maximum         elimited to 10 s switching at zero current maximum         elimited to 30 s switching at zero current maximum         elimited to 60 s switching at zero current maximum         elimited to 60 s switching at zero current maximum         elimited to 70 s switching at zero current maximum         elimited to 60 s switching at zero current maximum         elimited to 60 s switching at zero current maximum         elimited to 60 s switching at zero current maximum         elimited to 60 s switching at zero current maximum         elimited to 60 s switching at zero current maximum	22.6 kVA 39.4 kVA 49.2 kVA 56.1 kVA  15.1 kVA 26.2 kVA 32.8 kVA 45.3 kVA  1 055 A; Use minimum cross-section acc. to AC-1 rated value 730 A; Use minimum cross-section acc. to AC-1 rated value 520 A; Use minimum cross-section acc. to AC-1 rated value 336 A; Use minimum cross-section acc. to AC-1 rated value 272 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h  800 1/h 800 1/h			
at 690 V rated value  operating apparent power at AC-6a      up to 230 V for current peak value n=20 rated value     up to 400 V for current peak value n=20 rated value     up to 500 V for current peak value n=20 rated value     up to 690 V for current peak value n=20 rated value     operating apparent power at AC-6a     up to 230 V for current peak value n=30 rated value     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 690 V for current peak value n=30 rated value     short-time withstand current in cold operating state up to 40 °C      Ilimited to 1 s switching at zero current maximum     Ilimited to 5 s switching at zero current maximum     Ilimited to 30 s switching at zero current maximum     Ilimited to 60 s switching at zero current maximum     Ilimited to 60 s switching at zero current maximum     at AC-0 operating frequency     at AC-1 maximum     at AC-2 maximum     at AC-3 maximum	22.6 kVA 39.4 kVA 49.2 kVA 56.1 kVA  15.1 kVA 26.2 kVA 32.8 kVA 45.3 kVA  1 055 A; Use minimum cross-section acc. to AC-1 rated value 730 A; Use minimum cross-section acc. to AC-1 rated value 520 A; Use minimum cross-section acc. to AC-1 rated value 336 A; Use minimum cross-section acc. to AC-1 rated value 272 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h  800 1/h 800 1/h 700 1/h			
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at 690 V rated value  operating apparent power at AC-6a      up to 230 V for current peak value n=20 rated value     up to 400 V for current peak value n=20 rated value     up to 500 V for current peak value n=20 rated value     up to 690 V for current peak value n=20 rated value     operating apparent power at AC-6a     up to 230 V for current peak value n=30 rated value     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 690 V for current peak value n=30 rated value     short-time withstand current in cold operating state up to 40 °C      Ilimited to 1 s switching at zero current maximum     Ilimited to 5 s switching at zero current maximum     Ilimited to 30 s switching at zero current maximum     Ilimited to 60 s switching at zero current maximum     Ilimited to 60 s switching at zero current maximum     at AC-0 operating frequency     at AC-1 maximum     at AC-2 maximum     at AC-3 maximum	22.6 kVA 39.4 kVA 49.2 kVA 56.1 kVA  15.1 kVA 26.2 kVA 32.8 kVA 45.3 kVA  1 055 A; Use minimum cross-section acc. to AC-1 rated value 730 A; Use minimum cross-section acc. to AC-1 rated value 520 A; Use minimum cross-section acc. to AC-1 rated value 336 A; Use minimum cross-section acc. to AC-1 rated value 272 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h  800 1/h 800 1/h 700 1/h			

type of voltage of the control supply voltage	AC		
control supply voltage at AC			
at 50 Hz rated value	42 V		
operating range factor control supply voltage rated value of magnet coil at AC			
• at 50 Hz	0.8 1.1		
apparent pick-up power of magnet coil at AC	0.0 1.1		
• at 50 Hz	190 VA		
inductive power factor with closing power of the coil	100 V/		
• at 50 Hz	0.72		
apparent holding power of magnet coil at AC	0.12		
• at 50 Hz	16 VA		
inductive power factor with the holding power of the coil	10 071		
• at 50 Hz	0.37		
closing delay			
• at AC	10 80 ms		
opening delay			
• at AC	10 18 ms		
arcing time	10 20 ms		
control version of the switch operating mechanism	Standard A1 - A2		
Auxiliary circuit			
number of NC contacts for auxiliary contacts instantaneous	2		
contact number of NO contacts for auxiliary contacts instantaneous	2		
contact			
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		
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	6 A		
at 48 V rated value	2 A		
at 440 V rated value	2 A		
at 110 V rated value     at 125 V rated value	1 A		
at 125 V rated value     at 220 V rated value	0.9 A		
at 220 V rated value     at 600 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	GE A		
at 480 V rated value     at 600 V rated value	65 A		
at 600 V rated value  violed mechanical performance [hp]	52 A		
yielded mechanical performance [hp]  • for single-phase AC motor			
ior single-phase AC motor     — at 110/120 V rated value	5 hn		
— at 110/120 V rated value  — at 230 V rated value	5 hp		
for 3-phase AC motor	10 hp		
— at 200/208 V rated value	20 hp		
— at 200/208 V rated value  — at 220/230 V rated value	20 hp		
	50 hp		
— at 460/480 V rated value			
— at 575/600 V rated value	50 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			
— with type of coordination 1 required	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)		
— with type of assignment 2 required	gG: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (415V,80kA)		
<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	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface		
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
side-by-side mounting	Yes		
height	114 mm		
width	55 mm		
depth	174 mm		
required spacing			
<ul> <li>with side-by-side mounting</li> </ul>			
— forwards	10 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	0 mm		
• for grounded parts			
— forwards	10 mm		
— upwards	10 mm		
— at the side	6 mm		
— downwards	10 mm		
• for live parts			
— forwards	10 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	6 mm		
Connections/ Terminals			
type of electrical connection			
for main current circuit	screw-type terminals		
for auxiliary and control circuit	screw-type terminals		
at contactor for auxiliary contacts	Screw-type terminals Screw-type terminals		
of magnet coil	Screw-type terminals Screw-type terminals		
	Sciew-type terrilliais		
type of connectable conductor cross-sections for main contacts  • solid or stranded	2v (1 35 mm²) 1v (1 50 mm²)		
	2x (1 35 mm²), 1x (1 50 mm²)		
finely stranded with core end processing	2x (1 25 mm²), 1x (1 35 mm²)		
connectable conductor cross-section for main contacts	4 0- 0		
finely stranded with core end processing	1 35 mm²		
connectable conductor cross-section for auxiliary contacts	0.5 0.5		
solid or stranded	0.5 2.5 mm²		
finely stranded with core end processing	0.5 2.5 mm²		
type of connectable conductor cross-sections			
for auxiliary contacts			
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)		
AWG number as coded connectable conductor cross section			
for main contacts	18 1		
for auxiliary contacts	20 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		
<ul> <li>positively driven operation according to IEC 60947-5-1</li> <li>B10 value with high demand rate according to SN 31920</li> </ul>	1 000 000		

<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %		
<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %		
failure rate [FIT] with low demand rate according to SN 31920	100 FIT		
T1 value for proof test interval or service life according to IEC 61508	20 a		
protection class IP on the front according to IEC 60529	IP20		
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front		
suitability for use			
<ul> <li>safety-related switching OFF</li> </ul>	Yes		
Cartificates/ approvals			

Certificates/ approvals

## **General Product Approval**





Confirmation



**KC** 



**Functional** ЕМС Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 



Type Examination Certificate





**Special Test Certific-**<u>ate</u>

Type Test Certificates/Test Report

## Marine / Shipping













Marine / Shipping other Railway

**Dangerous Good** 

Environment



Confirmation

Confirmation

Vibration and Shock

**Transport Information** 

**Environmental Confirmations** 

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

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

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

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

Information on the packaging

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

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

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2037-1AD04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2037-1AD04

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

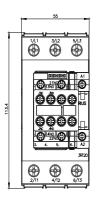
https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1AD0

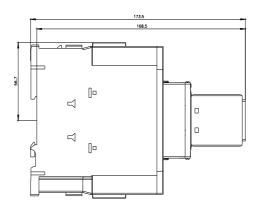
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2037-1AD04&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2037-1AD04&lang=en</a>

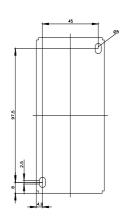
Characteristic: Tripping characteristics, I2t, Let-through current

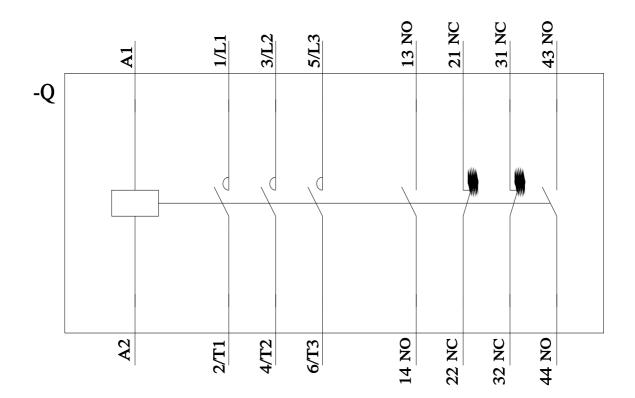
https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1AD04/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-1AD04&objecttype=14&gridview=view1









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