## **SIEMENS**

Data sheet 3RT2017-1AP01



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 230 V AC, 50/60 Hz, auxiliary contacts: 1 NO, screw terminal, size: S00  $\,$ 

size of contactor product extension • function module for communication • function module for communication • auxiliary switch  power loss [W] for rated value of the current • at AC in hot operating state per pole • at AC in hot operating state per pole • at AC in hot operating state per pole • of main circuit share typical • 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 auxiliary circuit rated value • at AC  maximum permissible voltage for protective separation between coil and main contacts according to EB 60947-1  shock resistance at rectangular impulse • at AC  * 11,4g / 5 ms, 7,3g / 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 • o	product brand name	SIRIUS
Size of contactor product extension • function module for communication • auxiliary switch  power loss [W] for rated value of the current • 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 with degree of pollution 3 rated value • of main circuit with degree of pollution 3 rated value • of main circuit with degree of pollution 3 rated value • of main circuit rated value • of main circuit rated value • of williary circuit rated value  • of main circuit rated value • of williary circuit rated value • of suxiliary circuit rated value  • of williary circuit rated value • of williary circuit rated value  • of williary circuit rated value • of suxiliary victuit multipated value • of outsiliary circuit rated value  • of outsiliary circuit rated value  • of williary circuit rated valu	product designation	Power contactor
size of contactor product extension • function module for communication • function module for communication • auxiliary switch  power loss [W] for rated value of the current • at AC in hot operating state per pole • at AC in hot operating state per pole • at AC in hot operating state per pole • of main circuit share typical • 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 auxiliary circuit rated value • at AC  maximum permissible voltage for protective separation between coil and main contacts according to EB 60947-1  shock resistance at rectangular impulse • at AC  * 11,4g / 5 ms, 7,3g / 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 • o	product type designation	3RT2
#unction module for communication   function module for communication   auxiliary switch   Yes	General technical data	
• function module for communication • auxiliary switch  ves  auxiliary switch  • at AC in hot operating state • at AC in hot operating state per pole • without load current share typical  • of main circuit share typical • 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 auxiliary circuit rated value • at AC  shock resistance at rectangular impulse • at AC  shock resistance with sine pulse • at AC  shock resistance  shock resistance  shock resistance  shock resistance  shock resistance  shock res	size of contactor	S00
• auxiliary switch  power loss [W] for rated value of the current  • at AC in hot operating state per pole • 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 rated value • at AC	product extension	
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 vith degree of pollution 3 rated value of auxiliary circuit rated value of the contactor vith sine pulse of at AC  7,3g / 5 ms, 4,7g / 10 ms  shock resistance at rectangular impulse 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 auxiliary switch block typical reference code according to IEC 81346-2 Q  Substance Prohibitance (Date)  unbient temperature of ulring operation of ulring operation of ulring storage  - 25 +60 °C of undired the contactor with added auxiliary switch block with added of the contactor with added auxiliary switch block with added	<ul> <li>function module for communication</li> </ul>	No
at AC in hot operating state 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 rated value of auxiliary switch block typical of contactor with sine pulse of at AC 7,3g / 5 ms, 4,7g / 10 ms  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 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 contacto	auxiliary switch	Yes
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 surge voltage resistance of main circuit rated value of auxiliary circuit rated value of with maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse of at AC 7,3g / 5 ms, 4,7g / 10 ms  shock resistance with sine pulse of contactor typical of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch b	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 auxiliary circuit with degree of pollution 3 rated value  surge voltage resistance     of main circuit rated value     of auxiliary switch life value     of sold a rate value     of auxiliary switch life value     of contactor typical     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	<ul> <li>at AC in hot operating state</li> </ul>	1.5 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 rated value of main circuit rated value of auxiliary circuit rated value of kV  7,3g / 5 ms, 4,7g / 10 ms  shock resistance at rectangular impulse of contactor typical of contactor typical of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch b	<ul> <li>at AC in hot operating state per pole</li> </ul>	0.5 W
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 of auxiliary circuit rated value     of of auxiliary circuit rated value     of of auxiliary circuit rated value     of auxiliary circuit rated value     of work of auxiliary circuit rated value     of auxiliary circuit rated value     of work resistance protective separation between coil and main contacts according to EN 60947-1  Shock resistance at rectangular impulse     of the Contactor with sine pulse     of at AC	<ul> <li>without load current share typical</li> </ul>	1.5 W
of auxiliary circuit with degree of pollution 3 rated value      of main circuit rated value     of auxiliary circuit rated value     aximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse     of at AC     7,3g / 5 ms, 4,7g / 10 ms  shock resistance with 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 switch block typical	insulation voltage	
surge voltage resistance  of main circuit rated value  of main circuit rated value  of auxiliary 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  o at AC  7,3g / 5 ms, 4,7g / 10 ms  shock resistance with sine pulse  o at AC  11,4g / 5 ms, 7,3g / 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	• 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  maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse     at AC     7,3g / 5 ms, 4,7g / 10 ms  shock resistance with sine pulse     at AC     11,4g / 5 ms, 7,3g / 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	<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  • at AC  shock resistance with sine pulse  • at AC  11,4g / 5 ms, 7,3g / 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 typical	<ul> <li>of main circuit rated value</li> </ul>	6 kV
shock resistance at rectangular impulse	of auxiliary circuit rated value	6 kV
at AC  shock resistance with sine pulse  at AC  11,4g / 5 ms, 7,3g / 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 electronically optimized auxiliary switch block 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 electronically optimized auxiliary switch block 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 electronically optimized auxiliary switch block 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 electronically optimized auxiliary switch block typical  of the contactor with added electronically optimized auxiliary switch block typical  of the contactor with added electronically		400 V
shock resistance with sine pulse  ● at AC  11,4g / 5 ms, 7,3g / 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  In 000 000  reference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ■ during operation  ● during storage  -25 +60 °C  -55 +80 °C	shock resistance at rectangular impulse	
at AC  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)  Ambient conditions installation altitude at height above sea level maximum ambient temperature of during operation of the contactor with added auxiliary switch block typical 10 000 000  10/01/2009  10/01/2009  -25 +60 °C of during storage -55 +80 °C	• at AC	7,3g / 5 ms, 4,7g / 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)  10/01/2009  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  -25 +60 °C  • during storage  -55 +80 °C	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      reference code according to IEC 81346-2      Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature     oduring operation     oduring storage  according to IEC 81346-2  Q  2 000 m	• at AC	11,4g / 5 ms, 7,3g / 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     reference code according to IEC 81346-2     Substance Prohibitance (Date)  Ambient conditions installation altitude at height above sea level maximum  ambient temperature     oduring operation     oduring storage  o during storage  5 000 000  10 000 000  10 000 000  2 000 000  10 000 000  2 000 000  10 000 000  10 000 000  10 000 00	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  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  of during operation  during storage  10 000 000  10/01/2009  2 000 m  2 000 m	of contactor typical	30 000 000
reference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage  Q  10/01/2009  2 000 m  2 000 m  -25 +60 °C  -55 +80 °C		5 000 000
Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage  10/01/2009  2 000 m  -25 +60 °C  -55 +80 °C	<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
Ambient conditions installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage  2 000 m  -25 +60 °C  -55 +80 °C	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage  2 000 m  -25 +60 °C  -55 +80 °C	Substance Prohibitance (Date)	10/01/2009
ambient temperature	Ambient conditions	
<ul> <li>during operation</li> <li>during storage</li> <li>-25 +60 °C</li> <li>-55 +80 °C</li> </ul>	installation altitude at height above sea level maximum	2 000 m
• during storage -55 +80 °C	ambient temperature	
	<ul> <li>during operation</li> </ul>	-25 +60 °C
relative humidity minimum	during storage	-55 +80 °C
10 /0	relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum		95 %
nvironmental footprint	Environmental footprint	
Environmental Product Declaration(EPD) Yes	Environmental Product Declaration(EPD)	Yes

Global Warming Potential [CO2 eq] total	39.6 kg
Global Warming Potential [CO2 eq] during manufacturing	1.18 kg
Global Warming Potential [CO2 eq] during operation	38.5 kg
Global Warming Potential [CO2 eq] after end of life	-0.155 kg
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	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 value</li> </ul>	22 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	22 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	20 A
• at AC-3	
— at 400 V rated value	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 A
• at AC-3e	
— at 400 V rated value	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 A
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	8.5 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	19.4 A
<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	9.9 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	7.2 A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	7.2 A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	7.2 A
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	6.7 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	4.8 A
— up to 400 V for current peak value n=30 rated value	4.8 A
— up to 500 V for current peak value n=30 rated value	4.8 A
— up to 690 V for current peak value n=30 rated value	4.8 A
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	4.1 A
at 690 V rated value	3.3 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.7 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	20 A

		20.4
	— at 60 V rated value	20 A
	— at 110 V rated value	
	— at 220 V rated value	20 A
- al 1 current path at DC-3 at DC-5	— at 440 V rated value	1.3 A
	— at 600 V rated value	1 A
	<ul><li>at 1 current path at DC-3 at DC-5</li></ul>	
	— at 24 V rated value	20 A
- with 2 current paths in series at DC-3 at DC-5  - at 24 V rated value - at 610 V rated value - at 110 V rated value - at 110 V rated value - at 62 V rated value - at 60 V rat	— at 60 V rated value	0.5 A
	— at 110 V rated value	0.15 A
	<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
alt 110 V rated value alt 20 V rated value alt 20 V rated value alt 10 V rated value alt 10 V rated value alt 20 V rated value	— at 24 V rated value	20 A
with 3 current paths in series at DC-3 at DC-5	— at 60 V rated value	5 A
	— at 110 V rated value	0.35 A
	<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
at 110 V rated value	— at 24 V rated value	20 A
	— at 60 V rated value	20 A
	— at 110 V rated value	20 A
at AC-3		
at AC-3		
■ at AC-3     ■ at 230 V rated value     ■ at 400 V rated value     ■ at 900 V rated value     ■ at 900 V rated value     ■ at 600 V rated value     ■ at 600 V rated value     ■ at AC-3e     ■ at 230 V rated value     ■ at 900 V rated value     ■ at 600 V roted value     ■ at 600 V for current peak value n=20 rated value     ■ up to 500 V for current peak value n=20 rated value     ■ up to 500 V for current peak value n=20 rated value     ■ up to 500 V for current peak value n=20 rated value     ■ up to 500 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=30 rated value     ■ up to 500 V for current peak value n=30 rated value     ■ up to 500 V for current peak value n=30 rated value     ■ up to 500 V for current peak value n=30 rated value     ■ up to 500 V for current peak value n=30 rated value     ■ up to 500 V for current peak value n=30 rated value     ■ up to 500 V for current peak value n=30 rated value     ■ up to 500 V for current peak value n=30 rated value     ■ up to 500 V for current peak value n=30 rated value     ■ up to 500 V for current peak value n=30 rated value     ■ up to 500 V for current peak value n=30 rated value     ■ up to 500 V for current peak value n=30 rated value     ■ up to 500 V for current peak value n=30 rated value     ■ to 500 V for current peak value n=30 rated value     ■ up to 500 V for current peak value n=30 rated value     ■ to 500 V for current peak value n=30 rated value     ■ at 600 V for current peak value n=30 rated value     ■ at 600 V for		
at 400 V rated value		3 kW
- at 500 V rated value - at 690 V rated value - 5.5 kW - at 600 V rated value - at AC-3e - at 230 V rated value - 5.5 kW - at 400 V rated value - 5.5 kW - at 690 V rated value - 5.5 kW - at 690 V rated value - 5.5 kW - at 690 V rated value - 2.5 kW - at 690 V rated value - 2.5 kW -		
at 1 AC-3e     — at 230 V rated value     — at 230 V rated value     — at 400 V rated value     — at 500 V rated value     — at 690 V rated value     • at 400 V rated value     • at 690 V rated value     • up to 230 V for current peak value n=20 rated value     • up to 500 V for current peak value n=20 rated value     • up to 500 V for current peak value n=20 rated value     • up to 500 V for current peak value n=20 rated value     • up to 500 V for current peak value n=20 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • the 500 V for current peak value n=30 rated value     • the 500 V for current peak value n=30 rated value     • the 500 V for current peak value n=30 rated value     • the 500 V for current peak value n=30 rated value     • the 500 V for current peak value n=30 rated value     • the 500 V for current peak value n=		
at AC-3e  at 230 V rated value  at 600 V rated value  at 600 V rated value  at 600 V rated value  5.5 kW  5.5 kW  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  at 690 V rated value  2 kW  2.5 kW  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 600 V for current peak value n=20 rated value  up to 600 V for current peak value n=20 rated value  up to 690 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  200 A; Use minimum cross-section acc. to AC-1 rated value  limited to 10 s switching at zero current maximum  limited to 50 s switching at zero current maximum  limited to 60 s switching at zero current maximum  limited to 60 s switching at zero current maximum  limited to 60 s switching at zero current maximum  limited to 60 s switching at zero current maximum  limited to 60 s switching at zero current maximum  limited to 60 s switching at zero current maximum  limited to 60 s switching at zero current maximum  limited to 60 s switching at zero current maximum  limited to 60 s switching at zero current maximum  limited to 60 s switching at zero current maximum  limited to 60 s switching at zero current maximum  limited to 60 s switching at zero current maximum  limited to 60 s switching at zero current maximum  limited to 60 s switching at zero current maximum  limited to 60 s switching at zero current maximum  limited to 60 switc		
- at 230 V rated value		5.5 KVV
- at 400 V rated value - at 500 V rated value - at 690 V rated value - at 690 V rated value  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value - at 690 V rated value - up to 230 V for current peak value n=20 rated value - up to 200 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 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 - up to 690 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 - up to 690 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 - up to 690 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 - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 230 V for current peak value n=30 rated value - up to 230 V for current pe		0.111/
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<ul> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>250 1/h</li> </ul>		
<ul> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>250 1/h</li> </ul>	• at AC-1 maximum	1 000 1/h
<ul> <li>at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>250 1/h</li> </ul>	• at AC-2 maximum	750 1/h
• at AC-4 maximum 250 1/h	• at AC-3 maximum	750 1/h
	• at AC-3e maximum	750 1/h
Control circuit/ Control	• at AC-4 maximum	250 1/h
	Control circuit/ Control	

type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	230 V
at 60 Hz rated value	230 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
● at 50 Hz	37 VA
• at 60 Hz	33 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	5.7 VA
• at 60 Hz	4.4 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
• at 60 Hz	0.25
closing delay	
• at AC	9 35 ms
opening delay	
• at AC	4 15 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	10 A
• at 400 V rated value	3 A
	0.4
• at 500 V rated value	2 A
<ul><li>at 500 V rated value</li><li>at 690 V rated value</li></ul>	1 A
at 690 V rated value	
at 690 V rated value     operational current at DC-12	1 A
at 690 V rated value  operational current at DC-12      at 24 V rated value	1 A 10 A
at 690 V rated value  operational current at DC-12      at 24 V rated value      at 48 V rated value	1 A 10 A 6 A
at 690 V rated value  operational current at DC-12      at 24 V rated value      at 48 V rated value      at 60 V rated value	1 A 10 A 6 A 6 A
at 690 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 110 V rated value  at 125 V rated value  at 220 V rated value	1 A  10 A 6 A 6 A 3 A 2 A 1 A
at 690 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 110 V rated value  at 125 V rated value  at 220 V rated value  at 600 V rated value  at 600 V rated value	1 A  10 A 6 A 6 A 3 A 2 A
at 690 V rated value  operational current at DC-12  at 24 V rated value  at 60 V rated value  at 110 V rated value  at 125 V rated value  at 220 V rated value  at 600 V rated value  operational current at DC-13	1 A  10 A  6 A  6 A  3 A  2 A  1 A  0.15 A
at 690 V rated value  operational current at DC-12      at 24 V rated value     at 60 V rated value     at 110 V rated value     at 125 V rated value     at 220 V rated value     at 600 V rated value     at 220 V rated value     at 24 V rated value	1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A
at 690 V rated value      operational current at DC-12         at 24 V rated value         at 48 V rated value         at 60 V rated value         at 110 V rated value         at 125 V rated value         at 220 V rated value         at 600 V rated value         at 24 V rated value         at 600 V rated value         at 600 V rated value         at 24 V rated value         at 24 V rated value         at 24 V rated value	1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A
at 690 V rated value  operational current at DC-12      at 24 V rated value      at 60 V rated value      at 110 V rated value      at 125 V rated value      at 220 V rated value      at 600 V rated value      at 24 V rated value      at 600 V rated value      at 600 V rated value  operational current at DC-13      at 24 V rated value      at 48 V rated value      at 60 V rated value      at 60 V rated value      at 60 V rated value	1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A
at 690 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 110 V rated value  at 125 V rated value  at 220 V rated value  at 600 V rated value  at 600 V rated value  operational current at DC-13  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 60 V rated value  at 60 V rated value  at 110 V rated value	1 A  10 A  6 A  6 A  3 A  2 A  1 A  0.15 A  10 A  2 A  2 A
at 690 V rated value  operational current at DC-12  at 24 V rated value  at 60 V rated value  at 110 V rated value  at 125 V rated value  at 220 V rated value  at 600 V rated value  operational current at DC-13  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 60 V rated value  at 110 V rated value  at 125 V rated value  at 125 V rated value	1 A  10 A  6 A  6 A  3 A  2 A  1 A  0.15 A  10 A  2 A  2 A  1 A  0.9 A
at 690 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 110 V rated value  at 125 V rated value  at 220 V rated value  at 600 V rated value  at 600 V rated value  at 600 V rated value  operational current at DC-13  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 110 V rated value  at 125 V rated value  at 220 V rated value	1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A
at 690 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 110 V rated value  at 125 V rated value  at 220 V rated value  at 600 V rated value  at 600 V rated value  at 600 V rated value  operational current at DC-13  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 110 V rated value  at 125 V rated value  at 60 V rated value  at 120 V rated value  at 125 V rated value  at 125 V rated value  at 125 V rated value  at 600 V rated value	1 A  10 A  6 A  6 A  3 A  2 A  1 A  0.15 A   10 A  2 A  2 A  1 A  0.9 A  0.3 A  0.1 A
at 690 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 100 V rated value  at 110 V rated value  at 125 V rated value  at 220 V rated value  at 600 V rated value  operational current at DC-13  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 10 V rated value  at 25 V rated value  at 60 V rated value  at 60 V rated value  at 60 V rated value  at 110 V rated value  at 125 V rated value  at 125 V rated value  at 125 V rated value  at 600 V rated value	1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A
at 690 V rated value     operational current at DC-12         at 24 V rated value         at 48 V rated value         at 600 V rated value         at 110 V rated value         at 125 V rated value         at 220 V rated value         at 600 V rated value         at 600 V rated value         at 600 V rated value         at 24 V rated value         at 48 V rated value         at 48 V rated value         at 110 V rated value         at 110 V rated value         at 125 V rated value         at 125 V rated value         at 125 V rated value         at 600 V rated value         at 600 V rated value         cat 220 V rated value         cat 320 V rated value	1 A  10 A  6 A  6 A  3 A  2 A  1 A  0.15 A   10 A  2 A  2 A  1 A  0.9 A  0.3 A  0.1 A
at 690 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 100 V rated value  at 110 V rated value  at 125 V rated value  at 220 V rated value  at 600 V rated value  operational current at DC-13  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 60 V rated value  at 110 V rated value  at 110 V rated value  at 125 V rated value  at 125 V rated value  cat 125 V rated value  at 125 V rated value  at 125 V rated value  cat 125 V rated value  at 220 V rated value  cat 220 V rated value  at 600 V rated value  contact reliability of auxiliary contacts  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor	1 A  10 A  6 A  6 A  3 A  2 A  1 A  0.15 A  10 A  2 A  2 A  1 A  0.9 A  0.3 A  0.1 A  1 faulty switching per 100 million (17 V, 1 mA)
at 690 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 100 V rated value  at 110 V rated value  at 125 V rated value  at 220 V rated value  at 600 V rated value  operational current at DC-13  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 10 V rated value  at 10 V rated value  at 60 V rated value  at 60 V rated value  at 10 V rated value  at 10 V rated value  at 125 V rated value  at 125 V rated value  at 126 V rated value  at 220 V rated value  at 600 V rated value  contact reliability of auxiliary contacts  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  at 480 V rated value	1 A  10 A  6 A  6 A  3 A  2 A  1 A  0.15 A  10 A  2 A  2 A  1 A  0.9 A  0.3 A  0.1 A  1 faulty switching per 100 million (17 V, 1 mA)
at 690 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 100 V rated value  at 110 V rated value  at 125 V rated value  at 220 V rated value  at 600 V rated value  operational current at DC-13  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 10 V rated value  at 10 V rated value  at 110 V rated value  at 125 V rated value  at 100 V rated value  at 100 V rated value  at 125 V rated value  at 125 V rated value  at 125 V rated value  at 220 V rated value  at 600 V rated value  at 600 V rated value  contact reliability of auxiliary contacts  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  at 480 V rated value  at 600 V rated value	1 A  10 A  6 A  6 A  3 A  2 A  1 A  0.15 A  10 A  2 A  2 A  1 A  0.9 A  0.3 A  0.1 A  1 faulty switching per 100 million (17 V, 1 mA)
at 690 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 110 V rated value  at 125 V rated value  at 220 V rated value  at 600 V rated value  operational current at DC-13  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 110 V rated value  at 125 V rated value  at 480 V rated value  at 600 V rated value  at 600 V rated value  contact reliability of auxiliary contacts  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  at 480 V rated value  yielded mechanical performance [hp]	1 A  10 A  6 A  6 A  3 A  2 A  1 A  0.15 A  10 A  2 A  2 A  1 A  0.9 A  0.3 A  0.1 A  1 faulty switching per 100 million (17 V, 1 mA)
at 690 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 110 V rated value  at 125 V rated value  at 220 V rated value  at 600 V rated value  operational current at DC-13  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 10 V rated value  at 110 V rated value  at 110 V rated value  at 125 V rated value  at 125 V rated value  at 125 V rated value  at 126 V rated value  at 220 V rated value  at 220 V rated value  at 480 V rated value  at 600 V rated value  at 600 V rated value  at 600 V rated value  full-load current (FLA) for 3-phase AC motor  at 480 V rated value  at 600 V rated value  full-load current (FLA) for 3-phase AC motor  at 480 V rated value  for single-phase AC motor	1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
at 690 V rated value     operational current at DC-12     at 24 V rated value     at 48 V rated value     at 110 V rated value     at 110 V rated value     at 125 V rated value     at 220 V rated value     at 600 V rated value     at 600 V rated value     operational current at DC-13     at 24 V rated value     at 48 V rated value     at 60 V rated value     at 110 V rated value     at 125 V rated value     at 220 V rated value     at 600 V rated value     at 600 V rated value     at 600 V rated value     ortact reliability of auxiliary contacts  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor     at 480 V rated value     at 600 V rated value     orticle of the first orticle of the plane of the pl	1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
at 690 V rated value  operational current at DC-12  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 110 V rated value  at 125 V rated value  at 220 V rated value  at 600 V rated value  operational current at DC-13  at 24 V rated value  at 48 V rated value  at 60 V rated value  at 10 V rated value  at 110 V rated value  at 110 V rated value  at 125 V rated value  at 125 V rated value  at 125 V rated value  at 126 V rated value  at 220 V rated value  at 220 V rated value  at 480 V rated value  at 600 V rated value  at 600 V rated value  at 600 V rated value  full-load current (FLA) for 3-phase AC motor  at 480 V rated value  at 600 V rated value  full-load current (FLA) for 3-phase AC motor  at 480 V rated value  for single-phase AC motor	1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)

at 200/200 V rated value	2 ha
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	3 hp
<ul><li>— at 460/480 V rated value</li><li>— at 575/600 V rated value</li></ul>	7.5 hp
contact rating of auxiliary contacts according to UL	10 hp A600 / Q600
Short-circuit protection	7,000 / 2,000
design of the fuse link	
for short-circuit protection of the main circuit	
with type of coordination 1 required	gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
with type of assignment 2 required	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)
for short-circuit protection of the auxiliary switch required	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
fastening method side-by-side mounting	Yes
height	58 mm
width	45 mm
depth	73 mm
required spacing	
with side-by-side mounting     fequals	10 mm
— forwards	10 mm
— upwards — downwards	10 mm
— downwards — at the side	0 mm
for grounded parts	Offiliti
— 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
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals
of magnet coil	Screw-type terminals
type of connectable conductor cross-sections	
• for main contacts	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
for AWG cables for main contacts	2x (20 16), 2x (18 14), 2x 12
connectable conductor cross-section for main contacts	
• solid	0.5 4 mm²
• stranded	0.5 4 mm <sup>2</sup>
finely stranded with core end processing	0.5 2.5 mm²
connectable conductor cross-section for auxiliary contacts	
• solid or stranded	0.5 4 mm <sup>2</sup>
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), 2x 4 mm²
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 2x 12
AWG number as coded connectable conductor cross	

section	
for main contacts	20 12
<ul> <li>for auxiliary contacts</li> </ul>	20 12
Safety related data	
product function	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes; with 3RH29
suitability for use safety-related switching OFF	Yes; applies only to contactor operating mechanism
proportion of dangerous failures	
<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 %
B10 value with high demand rate according to SN 31920	1 000 000
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
IEC 61508	
T1 value	
<ul> <li>for proof test interval or service life according to IEC 61508</li> </ul>	20 a
Electrical Safety	
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
Approvals Certificates	



**EMV** 

Confirmation





**General Product Approval** 

**General Product Approval** 

**Functional Saftey** 

**Test Certificates** 

<u>KC</u>





Type Examination Certificate

**Special Test Certific**ate

Type Test Certificates/Test Report

## Marine / Shipping













Marine / Shipping

other

**Environment** 



**Miscellaneous** 

Confirmation

Confirmation



Environmental Con-firmations

Information on the packaging

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

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2017-1AP01

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2017-1AP01

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

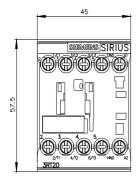
https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-1AP01

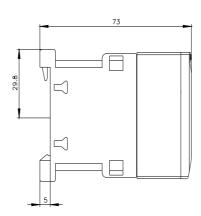
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

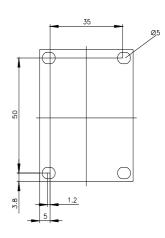
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2017-1AP01&lang=en

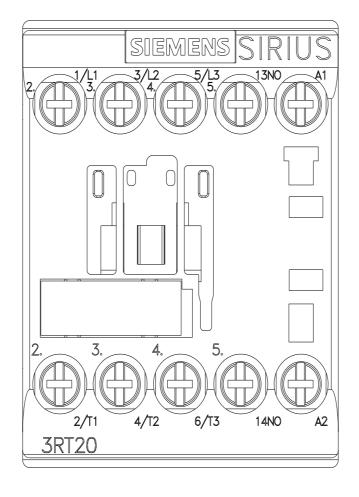
Characteristic: Tripping characteristics, I2t, Let-through current

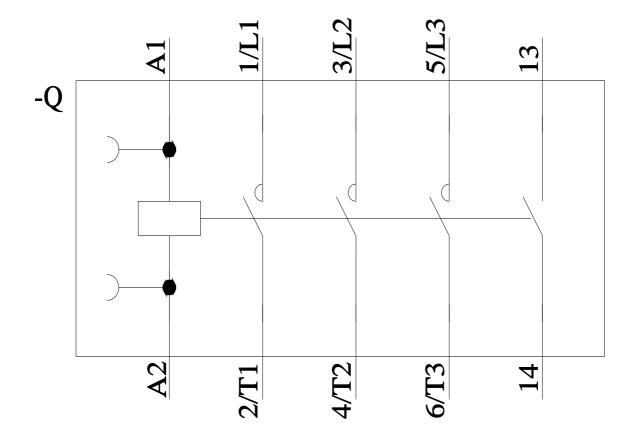
https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-1AP01/char











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