## SIEMENS

## Data sheet

## 3RT2015-2AP61-1AA0



Power contactor, AC-3 7 A, 3 kW / 400 V 1 NO, 220 V AC, 50 Hz 240 V, 60 Hz, 3-pole, Size S00, Spring-type terminal upright mounting position

product brand name         SIRUS           product designation         Power contactor           product type designation         3RT2           Ceneral technical data         S00           size of contactor         No           • function module for communication         No           • auxiliary switch         Yes           • at AC in hot operating state per pole         0.5 W           • at AC in hot operating state per pole         0.2 W           • without load current share typical         4.4 W           insultary circuit with degree of pollution 3 rated value         690 V           • of main circul with degree of pollution 3 rated value         690 V           • of main circul with degree of pollution 3 rated value         64 V           • of main circul with degree of pollution 3 rated value         64 V           • of main circul with degree of pollution 3 rated value         64 V           • of auxillary circuit rated value         64 V           • of main circul with degree of pollution 3 rated value         600 V           • of auxillary circuit rated value         64 V           • of auxillary circuit rated value         64 V           • of auxillary circuit rated value         500 To contactor typical           • at AC         6.7g / 5 ms, 4.2g / 10 ms	W/3 TRO 43	
product type designation         3RT2           General technical data	product brand name	SIRIUS
General technical data       S00         size of contactor       S00         product extension       No         - function module for communication       No         - auxiliary switch       Yes         power loss [W] for rated value of the current       0.6 W         - at AC in hot operating state       0.6 W         - without load current share typical       4.4 W         insulation voltage       0 f main circuit with degree of pollution 3 rated value         - of main circuit with degree of pollution 3 rated value       690 V         - of auxiliary circuit with degree of pollution 3 rated value       690 V         - of auxiliary circuit with degree of pollution 3 rated value       6 kV         - of auxiliary circuit rated value       6 kV         - of auxiliary switch block typical       0 OV         - ot contactor typical       0 S000 000         - ot contactor with added electronically optimized       30 000 000	product designation	Power contactor
size of contactor     S00       product extension     No       • function module for communication     No       • auxillary switch     Yes       power loss [W] for rated value of the current     0.6 W       • at AC in hot operating state     0.6 W       • of main circuit with degree of pollution 3 rated value     6.0 W       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of auxiliary circuit with degree of pollution 3 rated value     690 V       • of main circuit rated value     6 kV       • of auxiliary switch block typical     30 000 00       • at AC     10.5g / 5 ms, 4.2g / 10 ms       shock resistance with sine pulse     30 000 000       • at AC     10.5g / 5 ms, 6.6g / 10 ms       mechanical service life (switching cycles)     10 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     2000 m       auxillary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     2000 m       mathematic tenditions     2000 m       installation altitude at height ab	product type designation	3RT2
product extension         No           • function module for communication         No           • auxiliary switch         Yes           power loss [W] for rated value of the current         0.6 W           • at AC in hot operating state         0.6 W           • at AC in hot operating state per pole         0.2 W           • of nain circuit with degree of pollution 3 rated value         690 V           • of auxiliary circuit with degree of pollution 3 rated value         690 V           • of auxiliary circuit rated value         6 kV           • at AC         6.7g / 5 ms, 4.2g / 10 ms           metchanical service life (switching cycles)         0.000           • at AC         6.7g / 5 ms, 6.6g / 10 ms           • of the contactor with added electronically optimized auxiliary switch block typical         0.0000           • of the contactor with added auxiliary switch block typical         0.000	General technical data	
• function module for communicationNo• auxiliary switchYespower loss (W) for rated value of the current• at AC in hot operating state0.6 W• at AC in hot operating state per pole0.2 W• without load current share typical4.4 Winsulation voltage690 V• of auxiliary circuit with degree of pollution 3 rated value690 V• of auxiliary circuit rated value680 V• of main circuit with degree of pollution 3 rated value690 V• of main circuit rated value6 kV• of auxiliary circuit rated value6 kV• of auxiliary circuit rated value6 kV• of main circuit rated value6 kV• of auxiliary sitch bio typical30 000 000• at AC10.5g / 5 ms, 6.6g / 10 msmechanical service life (switching cycles)10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical2000 mauxiliary switch block typical2000 m• auxiliary struct block typical2000 m• of the contactor with addee auxiliary switch block typical2000 m• of the contactor with addee se	size of contactor	S00
• auxiliary switchYespower loss [W] for rated value of the current	product extension	
power loss [W] for rated value of the current         initial           e at AC in hot operating state per pole         0.6 W           e at AC in hot operating state per pole         0.2 W           e without load current share typical         4.4 W           insulation voltage         690 V           e of main circuit with degree of pollution 3 rated value         690 V           e of auxiliary circuit with degree of pollution 3 rated value         690 V           e of auxiliary circuit with degree of pollution 3 rated         690 V           value         6 KV           e of auxiliary circuit rated value         6 kV           e of auxiliary soluto biolos biolostorit         600 V           e of auxiliary soluto biolost spice         6 (7g / 5 ms, 4,2g / 10 ms           e at AC         10,5g / 5 ms, 6,6g / 10 ms	<ul> <li>function module for communication</li> </ul>	No
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shock resistance with sine pulse       10,5g / 5 ms, 6,6g / 10 ms         • at AC       10,5g / 5 ms, 6,6g / 10 ms         mechanical service life (switching cycles)       30 000 000         • of contactor typical       30 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       5 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %	shock resistance at rectangular impulse	
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<ul> <li>of contactor typical</li> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>reference code according to IEC 81346-2</li> <li>Substance Prohibitance (Date)</li> <li>10/01/2009</li> <li>Ambient conditions</li> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature</li> <li>during operation</li> <li>during storage</li> <li>relative humidity minimum</li> <li>relative humidity at 55 °C according to IEC 60068-2-30 maximum</li> </ul>	• at AC	10,5g / 5 ms, 6,6g / 10 ms
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>reference code according to IEC 81346-2</li> <li>Substance Prohibitance (Date)</li> <li>10/01/2009</li> <li>Ambient conditions</li> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature</li> <li>during operation</li> <li>during storage</li> <li>relative humidity minimum</li> <li>relative humidity at 55 °C according to IEC 60068-2-30 maximum</li> </ul>	mechanical service life (switching cycles)	
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Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30 maximum       95 %	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum2 000 mambient temperature-25 +60 °C• during operation-25 +60 °C• during storage-55 +80 °Crelative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %	Substance Prohibitance (Date)	10/01/2009
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relative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-3095 %maximum95 %	<ul> <li>during operation</li> </ul>	
relative humidity at 55 °C according to IEC 60068-2-30 95 %	<ul> <li>during storage</li> </ul>	
maximum	relative humidity minimum	
Main circuit		95 %
	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
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C	18 A
rated value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C	18 A
rated value	
— up to 690 V at ambient temperature 60 °C	16 A
rated value	
• at AC-3	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
• at AC-3e	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	6.5 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	15.8 A
<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	5.8 A
● at AC-6a	
<ul> <li>— up to 230 V for current peak value n=20 rated</li> </ul>	4 A
value	
<ul> <li>— up to 400 V for current peak value n=20 rated value</li> </ul>	4 A
	3.8 A
<ul> <li>— up to 500 V for current peak value n=20 rated value</li> </ul>	3.0 A
— up to 690 V for current peak value n=20 rated	3.6 A
value	0.071
● at AC-6a	
— up to 230 V for current peak value n=30 rated	2.7 A
value	
<ul> <li>— up to 400 V for current peak value n=30 rated</li> </ul>	2.7 A
value	
— up to 500 V for current peak value n=30 rated	2.5 A
value	0.4.4
<ul> <li>— up to 690 V for current peak value n=30 rated value</li> </ul>	2.4 A
minimum cross-section in main circuit at maximum AC-1	2.5 mm <sup>2</sup>
rated value	2.0 mm
operational current for approx. 200000 operating	
cycles at AC-4	
<ul> <li>at 400 V rated value</li> </ul>	2.6 A
<ul> <li>at 690 V rated value</li> </ul>	1.8 A
operational current	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— at 24 V rated value	15 A
— at 110 V rated value	1.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.42 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	15 A
— at 110 V rated value	8.4 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.5 A
with 3 current paths in series at DC-1	
- at 24 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	15 A
— at 440 V rated value	0.9 A
	0.07

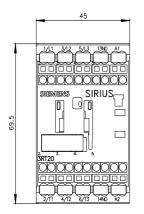
at 600 V rated value	0.7.4			
<ul> <li>— at 600 V rated value</li> <li>• at 1 current path at DC-3 at DC-5</li> </ul>	0.7 A			
- at 24 V rated value	15 A			
— at 110 V rated value	0.1 A			
• with 2 current paths in series at DC-3 at DC-5	0.177			
— at 24 V rated value	15 A			
— at 110 V rated value	0.25 A			
• with 3 current paths in series at DC-3 at DC-5				
— at 24 V rated value	15 A			
— at 110 V rated value	15 A			
— at 220 V rated value	1.2 A			
— at 440 V rated value	0.14 A			
— at 600 V rated value	0.14 A			
operating power				
<ul> <li>at AC-2 at 400 V rated value</li> </ul>	3 kW			
• at AC-3				
— at 230 V rated value	1.5 kW			
— at 400 V rated value	3 kW			
— at 500 V rated value	3 kW			
— at 690 V rated value	4 kW			
• at AC-3e				
— at 230 V rated value	1.5 kW			
— at 400 V rated value	3 kW			
— at 500 V rated value	3 kW			
— at 690 V rated value	4 kW			
operating power for approx. 200000 operating cycles at AC-4				
at 400 V rated value	1.15 kW			
at 690 V rated value	1.15 kW			
operating apparent power at AC-6a				
• up to 230 V for current peak value n=20 rated value	1.5 kVA			
• up to 400 V for current peak value n=20 rated value	2.7 kVA			
• up to 500 V for current peak value n=20 rated value	3.3 kVA			
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	4.3 kVA			
operating apparent power at AC-6a				
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	1 kVA			
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	1.8 kVA			
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	2.2 kVA			
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	2.9 kVA			
short-time withstand current in cold operating state				
up to 40 °C	400 At les minimum areas section and to AC 4 retail value			
<ul> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 a switching at zero surrent maximum</li> </ul>	120 A; Use minimum cross-section acc. to AC-1 rated value			
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	86 A; Use minimum cross-section acc. to AC-1 rated value			
<ul> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> </ul>	67 A; Use minimum cross-section acc. to AC-1 rated value 52 A; Use minimum cross-section acc. to AC-1 rated value			
<ul> <li>limited to 50 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> </ul>	43 A; Use minimum cross-section acc. to AC-1 rated value			
no-load switching frequency	to A, ede minimum cross decirin dec. to Ae-Trated value			
• at AC	10 000 1/h			
operating frequency				
• at AC-1 maximum	1 000 1/h			
• at AC-2 maximum	750 1/h			
• at AC-3 maximum	750 1/h			
● at AC-3e maximum	750 1/h			
• 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	220 V			
• at 60 Hz rated value	240 V			
operating range factor control supply voltage rated				
value of magnet coil at AC				
• at 50 Hz	0.8 1.1			
• at 60 Hz	0.8 1.1			
apparent pick-up power of magnet coil at AC				

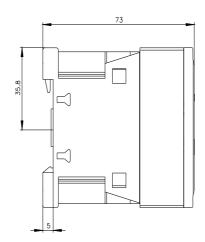
• at 50 Hz	26.4 VA		
• at 60 Hz	26.4 VA		
inductive power factor with closing power of the coil			
• at 50 Hz	0.81		
• at 60 Hz	0.81		
apparent holding power of magnet coil at AC			
• at 50 Hz	4.4 VA		
• at 60 Hz	4.4 VA		
inductive power factor with the holding power of the			
coil			
• at 50 Hz	0.24		
● at 60 Hz	0.24		
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		
	Standard AT - Az		
Auxiliary circuit			
number of NO contacts for auxiliary contacts	1		
instantaneous contact			
operational current at AC-12 maximum	10 A		
operational current at AC-15			
<ul> <li>at 230 V rated value</li> </ul>	10 A		
<ul> <li>at 400 V rated value</li> </ul>	3 A		
<ul> <li>at 500 V rated value</li> </ul>	2 A		
<ul> <li>at 690 V rated value</li> </ul>	1 A		
operational current at DC-12			
<ul> <li>at 24 V rated value</li> </ul>	10 A		
<ul> <li>at 48 V rated value</li> </ul>	6 A		
<ul> <li>at 60 V rated value</li> </ul>	6 A		
<ul> <li>at 110 V rated value</li> </ul>	3 A		
<ul> <li>at 125 V rated value</li> </ul>	2 A		
at 220 V rated value	1 A		
at 600 V rated value	0.15 A		
operational current at DC-13			
at 24 V rated value	10 A		
at 48 V rated value	2 A		
at 60 V rated value	2 A		
at 110 V rated value	1 A		
at 125 V rated value	0.9 A		
at 220 V rated value	0.3 A		
at 600 V rated value	0.1 A		
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)		
UL/CSA ratings			
full-load current (FLA) for 3-phase AC motor			
<ul> <li>at 480 V rated value</li> </ul>	4.8 A		
<ul> <li>at 600 V rated value</li> </ul>	6.1 A		
yielded mechanical performance [hp]			
<ul> <li>for single-phase AC motor</li> </ul>			
— at 110/120 V rated value	0.25 hp		
— at 230 V rated value	0.75 hp		
<ul> <li>for 3-phase AC motor</li> </ul>			
— at 200/208 V rated value	1.5 hp		
— at 220/230 V rated value	2 hp		
— at 460/480 V rated value	3 hp		
— at 575/600 V rated value	5 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: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)		
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,		
	80kA)		

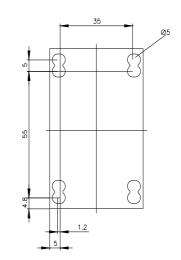
required				
Installation/ mounting/ dimensions				
mounting position	standing, on horizontal mounting surface			
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail			
-	according to DIN EN 60715			
<ul> <li>side-by-side mounting</li> </ul>	Yes			
height	70 mm			
width	45 mm			
depth	73 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			
<ul> <li>for grounded parts</li> </ul>				
— 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	spring-loaded terminals			
for auxiliary and control circuit	spring-loaded terminals			
at contactor for auxiliary contacts	Spring-type terminals			
of magnet coil	Spring-type terminals			
type of connectable conductor cross-sections				
for main contacts				
— solid	2x (0.5 4 mm <sup>2</sup> )			
— solid or stranded	2x (0,5 4 mm <sup>2</sup> )			
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm <sup>2</sup> )			
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm²)			
<ul> <li>at AWG cables for main contacts</li> </ul>	2x (20 12)			
connectable conductor cross-section for main contacts				
• solid	0.5 4 mm <sup>2</sup>			
<ul> <li>stranded</li> </ul>	0.5 4 mm²			
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>			
<ul> <li>finely stranded without core end processing</li> </ul>	0.5 2.5 mm²			
connectable conductor cross-section for auxiliary contacts				
<ul> <li>solid or stranded</li> </ul>	0.5 4 mm²			
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²			
<ul> <li>finely stranded without core end processing</li> </ul>	0.5 2.5 mm²			
type of connectable conductor cross-sections				
<ul> <li>for auxiliary contacts</li> </ul>				
— solid or stranded	2x (0,5 4 mm²)			
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm²)			
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm²)			
<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	2x (20 12)			
AWG number as coded connectable conductor cross				
section				
<ul> <li>for main contacts</li> </ul>	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			
B10 value with high demand rate according to SN 31920	1 000 000			
- 0				

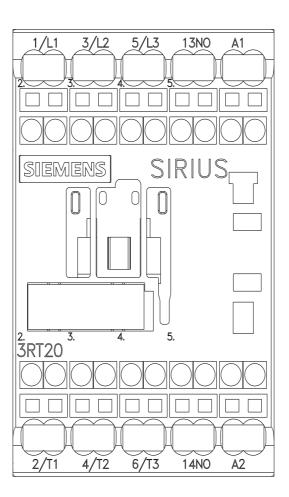
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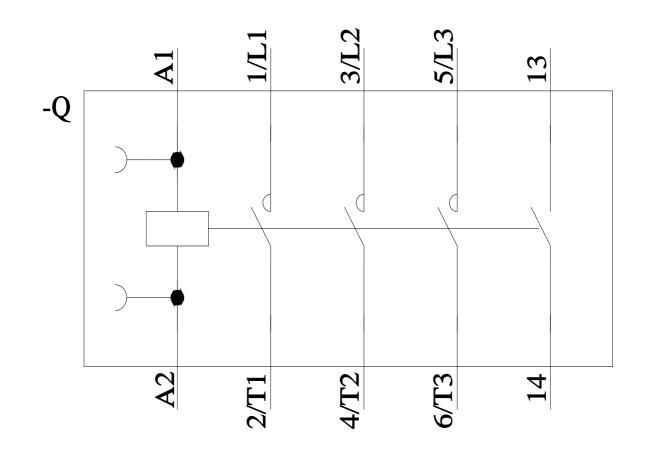
<ul> <li>with high dema</li> </ul>	erous failures and rate according to SN and rate according to SN low demand rate accord	1 31920	40 % 73 % 100 FIT			
T1 value for proof tes IEC 61508	t interval or service life	according to	20 у			
protection class IP 60529	protection class IP on the front according to IEC		IP20			
touch protection on suitability for use	the front according to	DIEC 60529	finger-safe, for vertical con	tact from the front		
<ul> <li>safety-related s</li> <li>Certificates/ approval</li> </ul>			Yes		_	
General Product A						
		<u>Confirmatio</u>		KC	EHC	
EMC	Functional Safety/Safety of Machinery	Declaration o	f Conformity	Test Certificates		
RCM	<u>Type Examination</u> <u>Certificate</u>	UK CA	CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	
Marine / Shipping						
ABS	B U REAU VERITAS		Lloyds Register	PRS	RINA	
Marine / Shipping	other			Railway		
RMRS	<u>Confirmation</u>	DE	<u>Confirmation</u>	Vibration and Shock		
Further information						
https://www.siemens. Industry Mall (Onlin https://mall.industry.s Cax online generato http://support.automa Service&Support (M https://support.indust Image database (pro http://www.automatio Characteristic: Trip https://support.indust	e ordering system) iemens.com/mall/en/en or ition.siemens.com/WW/ lanuals, Certificates, C ry.siemens.com/cs/ww/ oduct images, 2D dime	/Catalog/product CAXorder/defaul Characteristics, en/ps/3RT2015-2 ension drawings ax_de.aspx?mlft it, Let-through c en/ps/3RT2015-2	?mlfb=3RT2015-2AP61-1AA t.aspx?lang=en&mlfb=3RT20 FAQs,) 2AP61-1AA0 s, 3D models, device circuit p=3RT2015-2AP61-1AA0&lar urrent 2AP61-1AA0/char	) <u>15-2AP61-1AA0</u> t diagrams, EPLAN mac	ros,)	











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