SIEMENS

Data sheet

3RT2036-1AL20



power contactor, AC-3e/AC-3, 51 A, 22 kW / 400 V, 3-pole, 230 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2

product brand name SIRUS product designation Power contactor product type designation SR12 canazit tachnical data S2 product vatension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 4 • at AC in hot operating state 12 W • at AC in hot operating state per pole 4 W • without load current share typical 17.2 W insultation voltage 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 auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 70 V • of the contactor with added auxiliary stenthotextype at at AC 11.8g / 5 ms, 7.4g /	10 K/H	
product type designation 3RT2 General technical data	product brand name	SIRIUS
Ceneral technical data S2 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current • at AC in hot operating state 12 W • at AC in hot operating state 12 W • without load current share typical 72 W Insulation voltage 690 V • 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 main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 680 V • of main circuit rated value 68 kV • of auxiliary circuit rated value 64 kV • of the contactor with added dectronically optimized auxiliary switch block typical 100 00 000 • of the contactor with added auxiliary switch block typical 100 00 000	product designation	Power contactor
size of contactor S2 product extension No • auxilary switch Yes power loss [W] for rated value of the current 12 W • at AC in hot operating state exploit 12 W • at AC in hot operating state per pole 4 W • without load current share typical 17.2 W Insulation voltage 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 auxiliary circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit with degree of pollution 3 rated value 61V • of auxiliary circuit rated value 61V • of main circuit with degree of pollution 3 rated value 61V • of auxiliary circuit rated value 61V • of auxiliary circuit rated value 61V • of auxiliary circuit rated value 61V • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance withs ine pulse 11.8g / 5 ms, 7.4g / 10 ms • at AC 18.5g / 5 ms, 11.6g / 10 ms mechanical service Iffe (operating cycles) 10 000 000 • of the contactor with added electronically optimized 10 000 000 • of the contactor with added electronically optimized 10 000 000 • of the contac	product type designation	3RT2
product extension Image: Comparison of the function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 12 W • at AC in hot operating state 12 W • at AC in hot operating state proje 4 W • without load current share typical 17.2 W insulation voltage 690 V • of main circuit with degree of pollution 3 rated value 690 V • of analing vicruit with degree of pollution 3 rated value 690 V • of analing vicruit with degree of pollution 3 rated value 680 V • of analing vicruit with degree of pollution 3 rated value 64 kV • of analing vicruit with degree of pollution 3 rated value 64 kV • of analing vicruit rated value 64 kV • at AC 11.8g / 5 ms, 7.4g / 10 ms shock resistance with sine pulse 11.8g / 5 ms, 7.4g / 10 ms • at AC 18.5g / 5 ms, 11.6g / 10 ms mechanical service life (operating cycles) 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 of the contactor with added auxiliary switch block typical 10 000 000	General technical data	
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• auxiliary switch Yes power loss [W] for rated value of the current 12 W • at AC in hot operating state per pole 4 W • without load current share typical 17.2 W insulation voltage 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 with degree of pollution 3 rated value 690 V • of main circuit rated value 6 kV • of auxiliary circuit rated value 10 00 V shock resistance with sine pulse 10 000 000 • of the contactor with added electronically optimized 5000 000 auxiliary switch block typical 10 000 000	product extension	
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Substance Prohibitance (Date) 10/01/2014 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature 0 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 %	 of the contactor with added auxiliary switch block typical 	10 000 000
Ambient conditions 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 % Main circuit	reference code according to IEC 81346-2	Q
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• during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % Main circuit	ambient temperature	
relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit 95 %	during operation	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum 95 % Main circuit 95 %	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	
at AC-3 rated value maximum	690 V
 at AC-3e rated value maximum 	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	70 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	70 A
— up to 690 V at ambient temperature 60 °C rated	60 A
value	
• at AC-3	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
• at AC-3e	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
at AC-4 at 400 V rated value	41 A
at AC-5a up to 690 V rated value	61.6 A
• at AC-5b up to 400 V rated value	41.5 A
• at AC-6a	43.2 A
— 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 	43.2 A 43.2 A
— up to 500 V for current peak value n=20 rated value	45.2 A 24 A
• at AC-6a	24 A
 up to 230 V for current peak value n=30 rated value 	28.8 A
— up to 200 V for current peak value n=30 rated value	28.8 A
— up to 500 V for current peak value n=30 rated value	28.8 A
— up to 690 V for current peak value n=30 rated value	24 A
minimum cross-section in main circuit at maximum AC-1 rated	25 mm ²
value	
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	24 A
at 690 V rated value	20 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 1 current path at DC-3 at DC-5 	

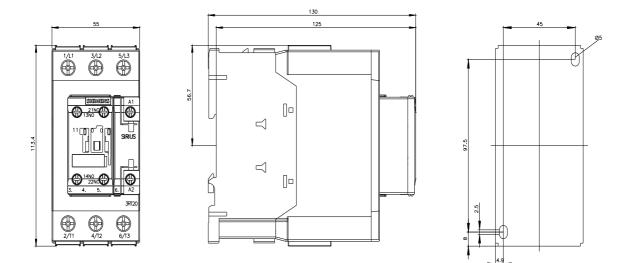
— at 24 V rated value	35 A
— at 60 V rated value	6 A
— at 220 V rated value	1 A
— at 440 V rated value	0.1 A
— at 600 V rated value	0.06 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	25 A
— at 220 V rated value	5 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
 with 3 current paths in series at DC-3 at DC-5 	
— 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	22 kW
• at AC-3	
- at 230 V rated value	15 kW
— at 200 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	22 kW
• at AC-3e	ZZ KVV
- at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	22 kW
operating power for approx. 200000 operating cycles at AC-	ZZ KVV
4	
• at 400 V rated value	12.6 kW
• at 690 V rated value	18.2 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	17.2 kVA
 up to 400 V for current peak value n=20 rated value 	29.9 kVA
 up to 500 V for current peak value n=20 rated value 	37.4 kVA
 up to 690 V for current peak value n=20 rated value 	28.6 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	11.4 kVA
• up to 400 V for current peak value n=30 rated value	19.9 kVA
• up to 500 V for current peak value n=30 rated value	24.9 kVA
 up to 690 V for current peak value n=30 rated value 	28.6 kVA
short-time withstand current in cold operating state up to	
40 °C	
 limited to 1 s switching at zero current maximum 	937 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	697 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	468 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	282 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	229 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	600 1/h
• at AC-3 maximum	800 1/h
● at AC-3e maximum	800 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
······································	

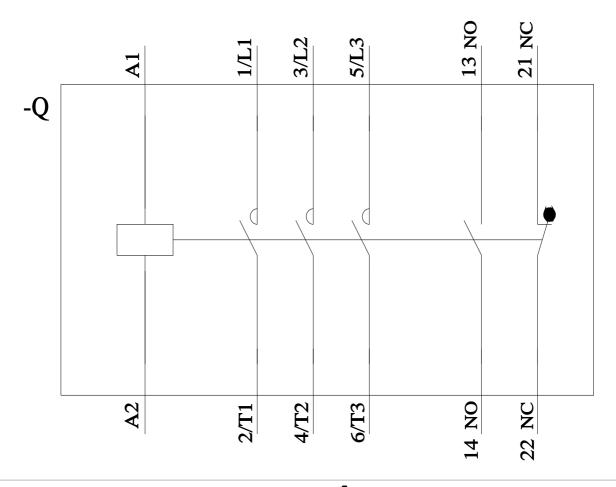
control supply voltage at AC	
• at 50 Hz rated value	230 V
• at 60 Hz rated value	230 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	210 VA
• at 60 Hz	188 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.69
• at 60 Hz	0.65
apparent holding power of magnet coil at AC	
• at 50 Hz	17.2 VA
• at 60 Hz	16.5 VA
inductive power factor with the holding power of the coil	
● at 50 Hz	0.36
• at 60 Hz	0.39
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 contact	1
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
• 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	10 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
• at 125 V rated value	0.9 A
• at 220 V rated value	0.3 A
• at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	52 A
at 600 V rated value	52 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	3 hp
— at 230 V rated value	10 hp
	· · · · · · ·

	e for 3-phase AC motor	
	for 3-phase AC motor at 200/208 \/ rated value	5 hn
		•
contact rating of auxiliary contacts according to UL A600 / P600 Sind-Cricit protection design of the five in kin - with type of coordination 1 required - with type of accordination 2 required - with type of accordination 2 required - with type of accordination 2 required - side by-side mounting - with side by-side mounting - forwards - forwards		
Short-circuit protection design of the fuse link for short-circuit protection of the main circuit 		•
design of the fuse link for short-circuit protection of the main circuit with type of cassignment 2 required g6: 160 A (690 V, 100 KA), aM: 80 A (690 V, 100 KA), BS& 63 g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), BS& 63 g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), BS& 63 g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), BS& 63 g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), BS& 63 g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), BS& 63 g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), BS& 63 g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), BS& 63 g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), BS& 63 g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), BS& 63 g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), BS& 63 g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), BS& 63 g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), BS& 63 g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), BS& 63 g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), BS& 63 g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), BS& 63 g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), aM: 60A g6: 80A (690 V, 100 KA), aM: 50A (690 V, 100 KA), aM: 60A g6: 80A (690 V, 100 KA), aM: 60A		
for short-circuit protection of the main circuit — with type of coordination 1 required Sci 160 A (690 V, 100 AA), aM: 80 A (690 V, 100 AA), BSS AA) — with type of assignment 2 required Sci 10 A (690 V, 100 AA), aM: 80 A (690 V, 100 AA), BSS AA (690 V, 100 AA), aM: 50A (690 V, 100 AA), BSSE 63 Sci 10 A (500 V, 1 AA) Installation/ mounting/ dimensions #/180° rotation possible on vertical mounting surface; ca backward by V +22.5° on vertical mounting vertical on maxima can be vertical mounting vertical on maxima - forwards 10 mm - downwards 10 mm - downwards 10 mm - downwards		
- with type of coordination 1 required with type of assignment 2 required of s short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required solve 1/2 (So V, 100 kA), aM: 80 A (690 V, 100 kA), BS8: 63 of or short-circuit protection of the auxiliary switch required mounting position thetalation for auxiliary switch required solve 3/2 (So V, 100 kA), aM: 80 A (690 V, 100 kA), BS8: 63 of or short-circuit protection of the auxiliary switch required solve 3/2 (So V, 100 kA), aM: 80 A (690 V, 100 kA), BS8: 63 of or short-circuit protection of the auxiliary switch required solve 3/2 (So V, 100 kA), aM: 80 A (690 V, 100 kA), BS8: 63 of or short-circuit protection of the auxiliary switch required solve 3/2 (So V, 100 kA), aM: 80 A (690 V, 100 kA), BS8: 63 of or short-circuit protection of the auxiliary switch required solve 3/2 (So V, 100 kA), aM: 80 A (690 V, 100 kA), BS8: 63 of or short-circuit protection of the auxiliary switch required solve 3/2 (So V, 100 kA), aM: 80 A (690 V, 100 kA), BS8: 63 of or short-circuit protection avertical mounting surface: ca below and by 4/-22.5° on vertical mounting surface: ca solve 3/2 (So V, 11 kA) for auxiliary and control are avertical mounting surface: ca solid or stranded i end youwards i end mounting differentials for auxiliary contacts solid or stranded i end youwards i end mount circuit i end value avert circuit i end or stranded i end y stranded with core end processing i end value avert circuit circuit i end value core end processing i for auxiliary contacts i end or stranded i end value core end processing i for AWG cables for auxiliary contacts i for auxiliary contacts i	-	
image:		C: 160 A (600 V 100 KA) 2M: 80 A (600 V 100 KA) BS88: 125 A (415 V 80
• for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting dimensions with fastening method screw and snap-on mounting surface; ca bedward by +-2.2.5 on vertical mounting surface; screw and snap-on mounting onto 35 mm DIN rail accord side-by-side mounting Yes height installation/ mounting/ verts side-by-side mounting Yes height installation forwards - forwards - forwards 10 mm - upwards 10 mm - upwards 10 mm - at the side 0 mm - forwards 10 mm - upwards 10 mm - upwards 10 mm - at the side 0 mm - forwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm Connection - for auxiliary and control circuit screw-type terminals screw-type ter		
Installation/ mounting/dimensions +/-180° rotation possible on vertical mounting surface; ca mounting position +/-180° rotation possible on vertical mounting surface; ca festening method screw and snap-on mounting onto 35 mm DIN rail accord • side-by-side mounting Yes height 114 mm width 55 mm depth 130 mm required spacing 0 mm • with side-by-side mounting - - forwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - for auxiliary contacts screw-type terminals solid or stranded screw-type terminals type of connectable conduct	— with type of assignment 2 required gG	G: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)
mounting position +1-80° rotation possible on vertical mounting surface; cabivarid by +1-22.5° on vertical mounting surface; cabivarid by end to end by +1-22.5° on vertical mounting surface; cabivarid by end the end by +1-22.5° on vertical mounting surface; cabivarid by end the end by +1-22.5° on vertical mounting surface; cabivarid by end the end processing 10 mm - forwards 10 mm - at the side 6 mm - forwards 10 mm - at the side 6 mm - forwards 10 mm - forwards 10 mm	• for short-circuit protection of the auxiliary switch required gG	G: 10 A (500 V, 1 kA)
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for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14) AWG number as coded connectable conductor cross section		
AWG number as coded connectable conductor cross section		
• for main contacts 18 1	G number as coded connectable conductor cross	
	• for main contacts 18	81
• for auxiliary contacts 20 14	for auxiliary contacts 20	0 14
Safety related data	/ related data	

product function					
 mirror contact a 	ccording to IEC 60947-4-1	Ye	es		
 positively driven 	operation according to IEC	C 60947-5-1 No	D		
B10 value with high de	emand rate according to SN	1 31920 1	000 000		
proportion of danger	ous failures				
 with low demand 	d rate according to SN 319	20 40) %		
 with high demar 	nd rate according to SN 319	920 73	3 %		
failure rate [FIT] with lo	ow demand rate according	to SN 31920 10	00 FIT		
T1 value for proof test 61508	interval or service life acco	rding to IEC 20) a		
protection class IP or	n the front according to I	EC 60529 IP	20		
touch protection on t	the front according to IEC	60529 fin	ger-safe, for vertical contact	from the front	
suitability for use					
 safety-related sy 	witching OFF	Ye	es		
ertificates/ approvals					
General Product App	proval				
	Confirmation		-	KC	
SP.	<u>Confirmation</u>		Ű		EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Con	formity	Test Certificates	
RCM	<u>Type Examination Cer-</u> tificate	CE EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> ate
ABS	B U R E A U VERITAS		Lloyd's Register uis	PRS	RINA
Marine / Shipping	other		Railway	Dangerous Good	Environment
	<u>Confirmation</u>	Confirmation	Vibration and Shock	Transport Information	Environmental Con- firmations
https://press.siemens.c Siemens is working of Please contact your loo EAC relevant market (of Information on the pa https://support.industry Information- and Dow https://www.siemens.c Industry Mall (Online https://mall.industry.sie Cax online generator http://support.automati Service&Support (Ma https://support.industry Image database (proo http://www.automation Characteristic: Trippi https://support.industry	other than the sanctioned E ackaging /.siemens.com/cs/ww/en/vi vnloadcenter (Catalogs, E com/ic10 ordering system) emens.com/mall/en/en/Cata con.siemens.com/WW/CAX anuals, Certificates, Chara /.siemens.com/cs/ww/en/ps	e/siemens-wind-down-i- rent EAC certificates. tatus of validity of the I EAEU member states F ew/109813875 Brochures,) alog/product?mlfb=3RT order/default.aspx?lan acteristics, FAQs,) s/3RT2036-1AL20 on drawings, 3D mod le.aspx?mlfb=3RT2033 t-through current s/3RT2036-1AL20/cha	EAC certification if you inten- Russia or Belarus). T2036-1AL20 g=en&mlfb=3RT2036-1AL20 els, device circuit diagram 6-1AL20⟨=en	2	ly these products to an
RT20361AL20		7/6	5/2023	Subject to c	hange without notice

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