SIEMENS

Data sheet

3RT2036-1AJ60



power contactor, AC-3e/AC-3, 51 A, 22 kW / 400 V, 3-pole, 92 V AC, 50 Hz / 110 V, 60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2

product brand name SIRIUS product designation Power contactor product type designation 3RT2 General technical data
product type designation 3RT2 General technical data S2 size of contactor S2 product extension No • 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 per pole 4 W • without load current share typical 18.5 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 rated value 6 kV • of auxiliary circuit rated value 6 kV • of main circuit rated value 6 kV • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • of main circuit rated value 6 kV • of main circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated val
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shock resistance with sine pulse 43 5 7 5 ms, 11.6g / 10 ms • at AC 18.5g / 5 ms, 11.6g / 10 ms
• at AC 18.5g / 5 ms, 11.6g / 10 ms
mechanical service life (operating cycles)
of contactor typical 10 000 000
of the contactor with added electronically optimized auxiliary switch block typical
of the contactor with added auxiliary switch block typical 10 000 000
reference code according to IEC 81346-2 Q
Substance Prohibitance (Date) 10/01/2014
Ambient conditions
installation altitude at height above sea level maximum 2 000 m
ambient temperature
• 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 % 95 %
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 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	22 kW
• at AC-3e	
— 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-	
4	
• at 400 V rated value	12.6 kW
at 690 V rated value	18.2 kW
operating apparent power at AC-6a	47.011/4
• 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 1 s switching at zero current maximum 	697 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 0 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 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-1 maximum	600 1/h
• at AC-3 maximum	800 1/h
• at AC-3e maximum	800 1/h
 at AC-3e maximum at AC-4 maximum 	800 1/h 250 1/h
• at AC-4 maximum	800 1/h 250 1/h

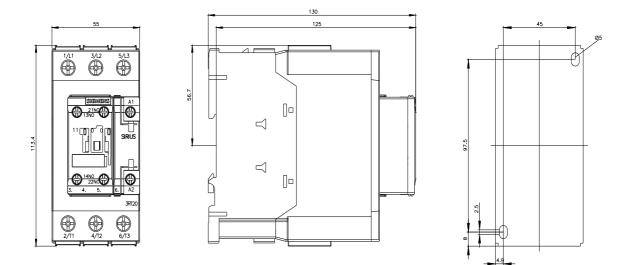
control supply voltage at AC	
• at 50 Hz rated value	92 V
• at 60 Hz rated value	110 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
● at 50 Hz	212 VA
• at 60 Hz	188 VA
inductive power 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	18.5 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	1A
• 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	1A
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 400 V rated value at 600 V rated value	52 A 52 A
yielded mechanical performance [hp]	
for single-phase AC motor	
- IUI SILIYIC-PLIASE AU IIUUU	
	3 hn
— at 110/120 V rated value — at 230 V rated value	3 hp 10 hp

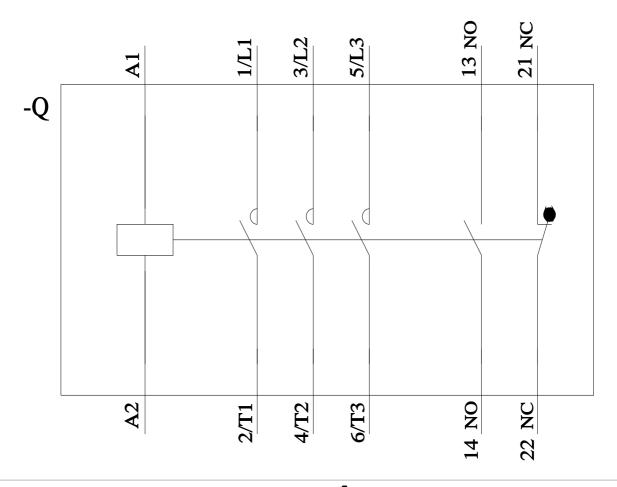
	e for 3-phase AC motor	
	for 3-phase AC motor at 200/208 \/ rated value	5 hn
		•
contact rating of auxiliary contacts according to UL A600 / P600 Sind-Cricit protection design of the fives link - for short-circuit protection of the main circuit gG: 160 A (600 V, 100 KA), akl: 80 A (690 V, 100 KA), BS8: 63 gG: 10 A (600 V, 100 KA), akl: 80 A (690 V, 100 KA), BS8: 63 gG: 10 A (600 V, 100 KA), akl: 80 A (690 V, 100 KA), BS88: 63 gG: 10 A (600 V, 100 KA), akl: 80 A (690 V, 100 KA), BS88: 63 gG: 10 A (600 V, 100 KA), akl: 80 A (690 V, 100 KA), BS88: 63 gG: 10 A (600 V, 100 KA), akl: 80 A (690 V, 100 KA), BS88: 63 gG: 10 A (600 V, 100 KA), akl: 80 A (690 V, 100 KA), BS88: 63 gG: 10 A (600 V, 100 KA), BS88: 63 gG: 10 A (
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required &A • with type of assignment 2 required • or short-circuit protection of the auxiliary switch required • or short-circuit protection of the auxiliary switch required • or short-circuit protection of the auxiliary switch required • side-by-side mounting mounting position • side-by-side mounting • side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • or grounded parts • for grounded parts • for file parts • for like parts • for like parts • downwards 10 mm • downwards 10 mm • downwards 10 mm • downwards 10 mm • for raising radio for auxiliary contacts screw-type terminals • for auxiliary and control circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • for auxiliary contacts screw-type terminals <		•
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) For short-circuit protection of the auxiliary switch required Sci 10 A (690 V, 100 AA), aM: 80 A (690 V, 100 AA), BSS AA (690 V, 100 AA), BSS AA Sci 10 A (690 V, 100 AA), BSS AB Sci 10 A (690 AB) Sci 10 A (690 AB) S		
- 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 for auxiliary and control circuit solve 3/2 (So L, 10 mm - downwards i for auxiliary contacts solid or stranded i for auxiliary contacts i for	-	
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/ ves side-by-side mounting Yes height installation accord and an approximately and accord side-by-side mounting ves required spacing evide side-by-side mounting - 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 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 ConnectionAf Terminals Ype of electrical connection screw-type terminals screw-type termi		
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 - downwa	— 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)
backward by +/-22 5" on vertical mounting surface fastening method screw and snap-on mounting onto 35 mm DIN rail accord height 114 mm width 55 mm depth 130 mm required spacing 0 mm • with side-by-side mounting 10 mm - upwards 10 mm - upwards 0 mm - downwards 0 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm	ation/ mounting/ dimensions	
fastening method screw and snap-on mounting onto 35 mm DIN rail accord height 114 mm width 55 mm depth 130 mm required spacing • • with side-by-side mounting 114 mm • with side-by-side mounting 0 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 0 mm - forwards 10 mm - upwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - of revisor		/-180° rotation possible on vertical mounting surface; can be tilted forward and
• side-by-side mounting Yes height 114 mm width 65 mm depth 130 mm required spacing 130 mm • with side-by-side mounting 10 mm - forwards 10 mm - upwards 10 mm - downwards 00 mm - downwards 00 mm - downwards 10 mm - the side 0 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm		
height 114 mm width 55 mm depth 130 mm required spacing 10 mm - forwards 10 mm - downwards 10 mm - forwards 10 mm - forwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - downwards	-	crew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
vidth 55 mm depth 130 mm required spacing 130 mm • with side-by-side mounting - - forwards 10 mm - upwards 10 mm - downwards 0 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 - or auxiliary and control circuit screw-type terminals i for making and control circuit screw-type terminals • of magnet coil Screw-type terminals type o		
depth 130 mm required spacing		
required spacing • with side-by-side mounting - forwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 0 mm • for grounded parts 0 mm - forwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - forwards 10 mm - downwards 10 mm - dornwards 10 mm - at the side		
with side-by-side mounting -forwards -upwards -upwards -upwards -upwards -orwards -orwer threate -orwer threate -orwards -orwarethreate -orwarethreate		30 mm
- forwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 0 mm - forwards 10 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - at he side 6 mm Connectable conductor circuit screw-type terminals soft auxiliary contacts Screw-typ		
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- downwards 10 mm - at the side 0 mm • for grounded parts 0 mm - forwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals Screw-type terminals screw-type terminals Screw-type ter		
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	• 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	Yes				
 positively driven 	operation according to IEC	60947-5-1 No				
B10 value with high de	emand rate according to SN	31920 1.00	00 000			
proportion of danger	ous failures					
 with low deman 	d rate according to SN 3192	0 40 °	6			
 with high demar 	nd rate according to SN 3192	20 73 9	6			
failure rate [FIT] with lo	ow demand rate according to	SN 31920 100	100 FIT			
	interval or service life accord		1			
61508						
protection class IP o	n the front according to IE	C 60529 IP20)			
touch protection on t	the front according to IEC	from the front				
suitability for use						
 safety-related system 	Ŭ	Yes				
ertificates/ approvals						
General Product App	proval					
(SP)	<u>Confirmation</u>		(h)	KC	EAC	
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Confo	prmity	Test Certificates		
RCM	<u>Type Examination Cer-</u> <u>tificate</u>	CE EG-Konf.	UK CA	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	
Marine / Shipping	BUREAU VERITAS		Llovds Register us	PRS	RINA	
Marine / Shipping	other		Railway	Dangerous Good	Environment	
EXAMPS	<u>Confirmation</u>	Confirmation	Vibration and Shock	Transport Information	Environmental Con- firmations	
https://press.siemens.r Siemens is working of Please contact your lo EAC relevant market (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: Tripp	v.siemens.com/cs/ww/en/viev vnloadcenter (Catalogs, Br com/ic10 ordering system) emens.com/mall/en/en/Catal	siemens-wind-down-ru nt EAC certificates. atus of validity of the E/ AEU member states Ru w/109813875 ochures,) og/product?mlfb=3RT2 rder/default.aspx?lange cteristics, FAQs,) 3RT2036-1AJ60 n drawings, 3D model aspx?mlfb=3RT2036- through current	AC certification if you inten- issia or Belarus). 1036-1AJ60 =en&mlfb=3RT2036-1AJ60 s, device circuit diagram	<u>.</u>	ly these products to an	
Further characteristie	cs (e.g. electrical enduranc		(2023	Subject to c	hange without notic	

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 $\underline{http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2036-1AJ60\&objecttype=14\&gridview=view1$





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