SIEMENS

Data sheet

3RA6250-2AB32



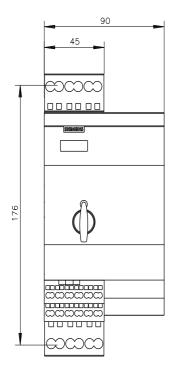
SIRIUS Compact load feeder Reversing starter 690 V 24 V AC/DC 50...60 Hz 0.1...0.4 A IP20 Connection main circuit: Spring-type terminal Connection control circuit: Spring-type terminal

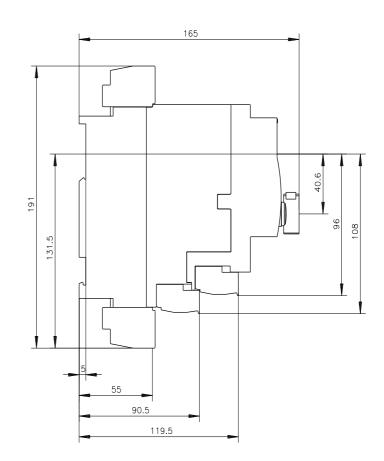
product brand name SIRUS product designation compact starter product type designation 3RA62 Canaral technical data product control circuit interface to parallel wing Yes product extension axillary switch Yes product control circuit interface to parallel wing Yes power loss [W] for rated value of the current 0.01 W • at AC in hot operating state probe 0.01 W • without load current share typical 2.9 W insulation voltage rated value 690 V degree of pollution 3 surge voltage resistance rated value 6000 V maximum permissible voltage for protective separation 6000 V • between main and axillary circuit 250 V • between axillary and axillary circuit 200 V • between axillary and axillary circuit 300 V • defgree of protection NEMA rating 10 000 0	472 612	
design of the product reversing starter product type designation 3RA62 optimit technical data	product brand name	SIRIUS
product type designation 3RA52 Ceneral technical data	product designation	compact starter
Constrait tachnical data Product function control circuit interface to parallel wiring Yes product stension auxiliary switch Yes power loss [W] for rated value of the current 0.01 W • at AC in hot operating state 0.01 W • at AC in hot operating state per pole 0.01 W • without load current share typical 2.9 W insultation voltage rated value 690 V degree of pollution 3 surge voltage resistance rated value 6 000 V maximum permissible voltage for protective separation 400 V • between main and auxiliary circuit 250 V • between control and auxiliary circuit 250 V • between control and auxiliary circuit 300 V degree of protection NEMA rating other shock resistance ref 458 Hz, d= 15 mm; f= 5.8500 Hz, a= 20 m/s ^k ; 10 cycles mechanical service life (operating cycles) 10 000 000 • of the main contacts typical 10 000 000 • of the signaling contacts typical 200 000 • of the signaling contacts typical 200 000 • of the signaling contacts typical 000 000 • of the signaling contacts typical 0000 00	design of the product	reversing starter
product function control circuit interface to parallel wiring Yes product extension auxiliary switch Yes power loss [W] for rated value of the current 0.01 W • at AC in hot operating state 0.01 W • without load current share typical 2.9 W Insultation voltage rated value 690 V degree of pollution 3 surge voltage resistance rated value 6 000 V maximum permissible voltage for protective separation 400 V • between main and auxiliary circuit 250 V • between control and auxiliary circuit 250 V • between control and auxiliary circuit 200 V degree of protection NEMA rating other shock resistance a=60 mis2 (6g) with 10 ms per 3 shocks in all axes vibration resistance fe 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s*; 10 cycles mechanical service life (operating cycles) 10 000 000 • of the signaling contacts typical 10 000 000 • of the signaling contacts typical 200 000 • at AC-13 at 6 A at 24 V typical 200 000 • at AC-13 at 6 A at 24 V typical 200 000 <td< th=""><th>product type designation</th><th>3RA62</th></td<>	product type designation	3RA62
product extension auxiliary switch Yes power loss [W] for rated value of the current 0.01 W • at AC in hot operating state per pole 0.01 W • without load current share typical 2.9 W Insulation voltage rated value 690 V degree of pollution 3 surge voltage resistance rated value 6 000 V maximum permissible voltage for protective separation 6 000 V • between main and auxiliary circuit 200 V • between auxiliary and auxiliary circuit 200 V • between control and auxiliary circuit 300 V degree of protection NEMA rating other shock resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s ² ; 10 cycles • of the main contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 • of the signaling contacts typical 200 000 • at AC-15 at 6 A at 230 V typical 200 000 • at AC-15 at 6 A at 230 V typical 200 000 • at AC-15 at 6 A at 230 V typical 2000 ma ambient temperatur	General technical data	
power loss [W] for rated value of the current 0.01 W • et AC in hot operating state 0.01 W • et AC in hot operating state per pole 0.01 W • without load current share typical 2.9 W Insulation voltage rated value 690 V degree of pollution 3 surge voltage resistance rated value 6000 V maximum permissible voltage for protective separation • • between main and auxiliary circuit 250 V • between auxiliary auxiliary circuit 250 V • between control and auxiliary circuit 200 V degree of protection NEMA rating other shock resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance fe 4 5.8 Hz, d= 15 mm; fe 5.8 500 Hz, a= 20 m/s²; 10 cycles mechanical service life (operating cycles) 10 000 000 • of the signaling contacts typical 10 000 000 • of the signaling contacts typical 20 000 et at DC-13 at 6 A at 24 V typical 200 000 <t< th=""><th>product function control circuit interface to parallel wiring</th><th>Yes</th></t<>	product function control circuit interface to parallel wiring	Yes
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without load current share typical 2.9 W insulation voltage rated value 690 V degree of pollution 3 surge voltage resistance rated value 600 V maximum permissible voltage for protective separation • between main and auxiliary circuit 400 V • between control and auxiliary circuit 300 V degree of protection NEMA rating other shock resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance f = 4 5.8 Hz, d = 15 mm; f = 5.8 500 Hz, a = 20 m/s ² ; 10 cycles mechanical service life (operating cycles) • of the main contacts typical 10 000 000 • of auxiliary contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 • of the dat 24 V typical 30 000 • at DC-13 at 6 A at 220 V typical 200 000 • at AC-15 at 6 A at 230 V typical continuous operation according to IEC 60947-6-2 reference code ac cording to IEC 81346-2 Q Substance Prohibitance (Date) installation altitude at height above sea level maximum 2000 m ambient temperature • during porration -20 +60 °C -55 +80 °C relative humidity during operation 10 90 %	 at AC in hot operating state 	0.01 W
insulation voltage rated value 690 V degree of pollution 3 surge voltage resistance rated value 6 000 V maximum permissible voltage for protective separation 6 • between main and auxiliary circuit 400 V • between naini and auxiliary circuit 250 V • between control and auxiliary circuit 300 V degree of protection NEMA rating other shock resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s ² ; 10 cycles mechanical service life (operating cycles) 10 000 000 • of the main contacts typical 10 000 000 • of the signaling contacts typical 30 000 • at DC-13 at 6 A 124 V typical 30 000 • at AC-15 at 6 A at 220 V typical 200 000 type of assignment continuous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 05/01/2012 Ambient conditions -20 +60 °C • during strange -55 +80 °C • during strange -55 +80 °C • during transport	 at AC in hot operating state per pole 	0.01 W
degree of pollution 3 surge voltage resistance rated value 6 000 V maximum permissible voltage for protective separation 6 000 V • between main and auxiliary circuit 400 V • between auxiliary and auxiliary circuit 250 V • between control and auxiliary circuit 300 V degree of protection NEMA rating other shock resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance f=4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles mechanical service life (operating cycles) 10 000 000 • of the main contacts typical 10 000 000 • of auxiliary contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 • of the control and auxiliary contacts 30 000 • at DC-13 at 6 A at 24 V typical 200 000 type of assignment continuous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 0501/2012 Ambient conditions -20 +60 °C installation alititude at height above sea level maximum <	 without load current share typical 	2.9 W
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maximum permissible voltage for protective separation • between main and auxiliary circuit 400 V • between auxiliary and auxiliary circuit 250 V • between control and auxiliary circuit 300 V degree of protection NEMA rating other shock resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s², 10 cycles mechanical service life (operating cycles) i0 000 000 • of the main contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 • at DC-13 at 6 A at 24 V typical 30 000 • at AC-15 at 6 A at 230 V typical 200 000 continous operation according to IEC 60947-6-2 Q Substance Prohibitance (Date) 05/01/2012 Ambient conditions 2000 m ambient temperature -20 +60 °C • during operation -20 +60 °C • during transport -55 +80 °C	degree of pollution	3
• between main and auxiliary circuit 400 V • between auxiliary and auxiliary circuit 250 V • between control and auxiliary circuit 300 V degree of protection NEMA rating other shock resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance fr 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s²; 10 cycles mechanical service life (operating cycles) 10 000 000 • of the main contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 • of the signaling contacts typical 30 000 • at DC-13 at 6 A at 24 V typical 30 000 • at DC-13 at 6 A at 230 V typical 200 000 type of assignment continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 05/01/2012 Ambient temperature 000 m • during operation -20 +60 °C • during transport -20 +60 °C • during transport -55 +80 °C relative humidity during operation 10 90 %	surge voltage resistance rated value	6 000 V
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• between control and auxiliary circuit 300 V degree of protection NEMA rating other shock resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s ² ; 10 cycles mechanical service life (operating cycles) 0 000 000 • of the main contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 • of the signaling contacts typical 000 000 • of the signaling contacts typical 000 000 • at DC-13 at 6 A at 24 V typical 30 000 • at AC-15 at 6 A at 230 V typical 200 000 type of assignment continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 05/01/2012 Ambient temperature 2 000 m • during operation -20 +60 °C • during storage -55 +80 °C • during transport -55 +80 °C relative humidity during operation 10 90 %	 between main and auxiliary circuit 	400 V
degree of protection NEMA rating other shock resistance a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes vibration resistance f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s ² ; 10 cycles mechanical service life (operating cycles) 0000 000 • of the main contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 • of the signaling contacts typical 10 000 000 electrical endurance (operating cycles) of auxiliary contacts at DC-13 at 6 A at 24 V typical • at DC-13 at 6 A at 230 V typical 200 000 type of assignment continous operation according to IEC 60947-6-2 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 05/01/2012 Ambient conditions 2 000 m ambient temperature -20 +60 °C • during operation -25 +80 °C • during transport -55 +80 °C • during transport -55 +80 °C mini circuit Main circuit	 between auxiliary and auxiliary circuit 	250 V
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• at DC-13 at 6 A at 24 V typical30 000• at AC-15 at 6 A at 230 V typical200 000type of assignmentcontinous operation according to IEC 60947-6-2reference code according to IEC 81346-2QSubstance Prohibitance (Date)05/01/2012Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature-20 +60 °C• during operation-20 +60 °C• during storage-55 +80 °C• relative humidity during operation10 90 %	 of the signaling contacts typical 	10 000 000
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reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 05/01/2012 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -20 +60 °C • during operation -20 +60 °C • during storage -55 +80 °C • during transport -55 +80 °C relative humidity during operation 10 90 %	 at AC-15 at 6 A at 230 V typical 	200 000
Substance Prohibitance (Date) 05/01/2012 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature -20 +60 °C • during operation -20 +60 °C • during storage -55 +80 °C • during transport -55 +80 °C relative humidity during operation 10 90 %	type of assignment	continous operation according to IEC 60947-6-2
Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -20 +60 °C • during operation -20 +60 °C • during storage -55 +80 °C • during transport -55 +80 °C relative humidity during operation 10 90 %	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum 2 000 m ambient temperature -20 +60 °C • during operation -20 +60 °C • during storage -55 +80 °C • during transport -55 +80 °C relative humidity during operation 10 90 % Main circuit	Substance Prohibitance (Date)	05/01/2012
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• during operation -20 +60 °C • during storage -55 +80 °C • during transport -55 +80 °C relative humidity during operation 10 90 %	installation altitude at height above sea level maximum	2 000 m
• during storage • during transport • during transport • during transport • during operation 10 90 % Main circuit	ambient temperature	
• during transport • during transport relative humidity during operation 10 90 % Main circuit	 during operation 	-20 +60 °C
relative humidity during operation 10 90 % Main circuit	• during storage	-55 +80 °C
Main circuit	during transport	-55 +80 °C
	relative humidity during operation	10 90 %
number of poles for main current circuit 3	Main circuit	
	number of poles for main current circuit	3

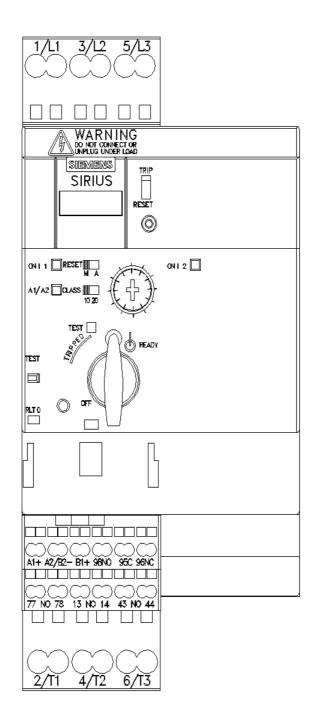
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adjustable current response value current of the current- dependent overload release	0.1 0.4 A
formula for making capacity limit current	120 x le
formula for limit current breaking capacity	100 x le
yielded mechanical performance for 4-pole AC motor	
at 400 V rated value	0.09 kW
• at 500 V rated value	0.12 kW
at 690 V rated value	0.18 kW
operating voltage at AC-3 rated value maximum	690 V
operational current	0.4.4
at AC at 400 V rated value	0.4 A
• at AC-3 at 400 V rated value	0.4 A
• at AC-43	
— at 400 V rated value	0.3 A
— at 500 V rated value	0.32 A
— at 690 V rated value	0.35 A
operating power	
• at AC-3 at 400 V rated value	0.09 kW
• at AC-43	
— at 400 V rated value	90 W
— at 500 V rated value	120 W
— at 690 V rated value	180 W
no-load switching frequency	3 600 1/h
operating frequency	
 at AC-41 according to IEC 60947-6-2 maximum 	750 1/h
 at AC-43 according to IEC 60947-6-2 maximum 	250 1/h
Control circuit/ Control	
type of voltage	AC/DC
control supply voltage 1 at AC	
• at 50 Hz rated value	24 V
• at 50 Hz	24 24 V
• at 60 Hz rated value	24 V
• at 60 Hz	24 V
control supply voltage frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
control supply voltage 1	
at DC rated value	24 V
• at DC	24 24 V
holding power	
• at AC maximum	2.8 W
• at DC maximum	2.9 W
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	2
number of NO contacts of instantaneous short-circuit trip unit for	1
signaling contact	
number of CO contacts of the current-dependent overload release for signaling contact	1
operational current of auxiliary contacts at AC-12 maximum	10 A
operational current of auxiliary contacts at DC-13 at 250 V	0.27 A
Protective and monitoring functions	
trip class	CLASS 10 and 20 adjustable
operating short-circuit current breaking capacity (Ics)	
• at 400 V	53 kA
• at 500 V rated value	3 kA
• at 690 V rated value	3 kA
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	0.4 A
• at 600 V rated value	0.4 A

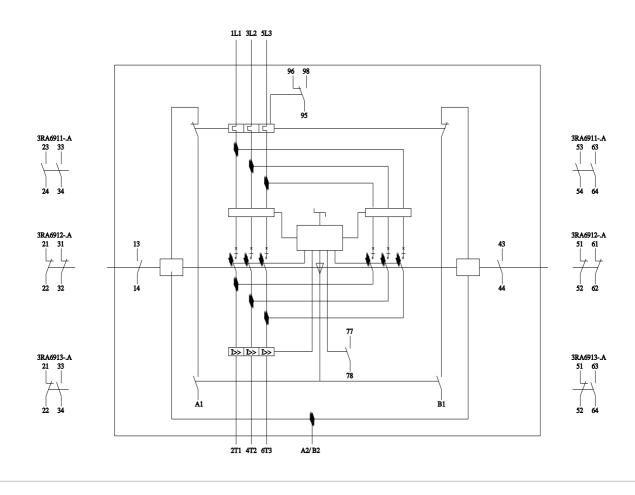
contact rating of auxiliary contacts according to UL	contacts 21-22, 13-14, 43-44 Q600 / A600, contacts 77-78 R300 / B300, contacts 95-96-98 R300 / D300			
Short-circuit protection				
product function short circuit protection	Yes			
design of short-circuit protection	electromagnetic			
design of the fuse link				
 for short-circuit protection of the auxiliary switch required 	fuse gL/gG: 10 A			
 for short-circuit protection of the signaling switch of the 	6A gL/gG/400V			
short-circuit release required				
 for short-circuit protection of the signaling switch of the overload release required 	4A gL/gG/400V			
Installation/ mounting/ dimensions				
mounting position	any			
 recommended 	vertical, on horizontal standard DIN rail			
fastening method	screw and snap-on mounting			
height	191 mm			
width	90 mm			
depth	165 mm			
Connections/ Terminals				
product component removable terminal for main circuit	Yes			
product component removable terminal for auxiliary and	Yes			
control circuit				
type of electrical connection				
 for main current circuit 	spring-loaded terminals			
 for auxiliary and control circuit 	spring-loaded terminals			
type of connectable conductor cross-sections for main contacts				
• solid	2x (1.5 6 mm²), 1x 10 mm²			
 finely stranded with core end processing 	2x (1.5 6 mm²)			
 finely stranded without core end processing 	2x (1.5 6 mm²)			
type of connectable conductor cross-sections				
 for auxiliary contacts 				
— solid	2x (0.25 1.5 mm²)			
 finely stranded with core end processing 	2x (0.25 1.5 mm ²)			
 finely stranded with core end processing finely stranded without core end processing 	2x (0.25 1.5 mm²) 2x (0.25 1.5 mm²)			
- finely stranded without core end processing	2x (0.25 1.5 mm ²)			
finely stranded without core end processingfor AWG cables for auxiliary contacts	2x (0.25 1.5 mm ²)			
 finely stranded without core end processing for AWG cables for auxiliary contacts Safety related data B10 value with high demand rate according to SN 31920 	2x (0.25 1.5 mm²) 2x (24 16)			
 finely stranded without core end processing for AWG cables for auxiliary contacts Safety related data 	2x (0.25 1.5 mm²) 2x (24 16)			
 finely stranded without core end processing for AWG cables for auxiliary contacts Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 	2x (0.25 1.5 mm ²) 2x (24 16) 3 000 000			
 finely stranded without core end processing for AWG cables for auxiliary contacts Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 	2x (0.25 1.5 mm ²) 2x (24 16) 3 000 000 40 %			
 finely stranded without core end processing for AWG cables for auxiliary contacts Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 	2x (0.25 1.5 mm ²) 2x (24 16) 3 000 000 40 % 50 % 100 FIT			
 finely stranded without core end processing for AWG cables for auxiliary contacts Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 	2x (0.25 1.5 mm ²) 2x (24 16) 3 000 000 40 % 50 %			
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field-bound HF interfer	ence emission accord	ing to CISPR11 30	1000 MHz Class A			
Supply voltage						
Supply voltage require	d Auxiliary voltage	No)			
Display						
number of LEDs		3				
Certificates/ approvals						
					Functional	
General Product Appro	oval			EMC	Safety/Safety of Ma- chinery	
	<u>Confirmation</u>		EHC	RCM		
Declaration of Conform	nity	Test Certificates	Marine / Shipping			
CE EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report	ABS		Lloyds Register urs	
Marine / Shipping		other	Dangerous Good			
PRS	RINA	<u>Confirmation</u>	Transport Information			
Further information Siemens has decided to exit the Russian market (see here).						
https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875						
Information- and Downloadcenter (Catalogs, Brochures,) <u>https://www.siemens.com/ic10</u> Industry Mall (Online ordering system)						
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA6250-2AB32 Cax online generator						
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6250-2AB32 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RA6250-2AB32						
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA6250-2AB32⟨=en						
Characteristic: Trippin https://support.industry.s	g characteristics, I ² t, L siemens.com/cs/ww/en/p	et-through current os/3RA6250-2AB32/cha	<u> </u>			
Further characteristics	e (e.g. electrical endura iemens.com/bilddb/inde	nce, switching freque x.aspx?view=Search&m	ncy) Ilfb=3RA6250-2AB32&obje	ecttype=14&gridview=vie	ew1	









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