SIEMENS

10, A-RELEASE 1420A, N-RELEASE 260A, SCREW TERMINAL, STANDARD BREAKING CAPACITY W. TRANSV. AUX. SWITCH 1NO+1NC	Data sheet	3RV2031-4BA15
Product designation General technical data: Size of the circuit-breaker Size of contactor can be combined company-specific Product extension • Auxiliary switch Power loss [W] total typical Insulation voltage with degree of pollution 3 rated value Surge voltage resistance rated value ### Auxiliary switch **In networks with grounded star point between main and auxiliary circuit • in networks with grounded star point between main and auxiliary circuit • in networks with grounded star point between main and auxiliary circuit • in networks with grounded star point between main and auxiliary circuit • in networks with grounded star point between main and auxiliary circuit • of the terminal Protection class IP • of the terminal Shock resistance • acc. to IEC 60068-2-27 ### Mechanical service life (switching cycles) • of the main contacts typical • of auxiliary cont		STANDARD BREAKING CAPACITY W. TRANSV. AUX. SWITCH
Size of the circuit-breaker Size of contactor can be combined company-specific Product extension • Auxiliary switch Power loss [W] total typical Insulation voltage with degree of pollution 3 rated value Surge voltage resistance rated value maximum permissible voltage for safe isolation • in networks with grounded star point between main and auxiliary circuit • in networks with grounded star point between main and auxiliary circuit • in networks with grounded star point between main and auxiliary circuit Protection class IP • on the front • of the terminal Shock resistance • acc. to IEC 60068-2-27 Mechanical service life (switching cycles) • of the main contacts typical • of auxiliary contacts typical • of protection against electrical shock Equipment marking acc. to DIN EN 81346-2 Q Ambient conditions: Installation altitude at height above sea level maximum Ambient temperature • during operation Se 2 2 Sg / 11 ms Sinus A sinus 400 V 400	product brand name	SIRIUS
Size of the circuit-breaker Size of contactor can be combined company-specific Size of contactor can be combined company-specific Product extension • Auxiliary switch Power loss [W] total typical Insulation voltage with degree of pollution 3 rated value Surge voltage resistance rated value maximum permissible voltage for safe isolation • in networks with grounded star point between main and auxiliary circuit • in networks with grounded star point between main and auxiliary circuit • on the front • of the terminal Shock resistance • acc. to IEC 60068-2-27 Mechanical service life (switching cycles) • of the main contacts typical • of auxiliary contacts typical • of auxiliary contacts typical Electrical endurance (switching cycles) • typical Protection against electrical shock Equipment marking acc. to DIN EN 81346-2 Q Ambient conditions: Ambient temperature • during operation Prote Conditions are service life (swind a height above sea level maximum Ambient temperature • during operation Prote Conditions:	Product designation	3RV2 circuit breaker
Size of contactor can be combined company-specific Product extension Auxiliary switch Power loss [W] total typical Insulation voltage with degree of pollution 3 rated value Surge voltage resistance rated value maximum permissible voltage for safe isolation in networks with grounded star point between main and auxiliary circuit in networks with grounded star point between main and auxiliary circuit in networks with grounded star point between main and auxiliary circuit Protection class IP on the front of the terminal IP00 Shock resistance acc. to IEC 60068-2-27 Mechanical service life (switching cycles) of the main contacts typical of auxiliary contacts typical of auxiliary contacts typical of auxiliary contacts typical flectrical endurance (switching cycles) otypical Protection against electrical shock Equipment marking acc. to DIN EN 81346-2 Q Ambient conditions: Insulation of interminal structure in the fininger-safe when touched vertically from front acc. to IEC 60529 Company of the main contacts typical and the fininger-safe when touched vertically from front acc. to IEC 60529 Company of the main contacts of DIN EN 81346-2 Q Ambient conditions: Insulation attitude at height above sea level maximum Ambient temperature of during operation According the fininger-safe when touched vertically from front acc. to IEC 60529 Company of the fininger-safe when touched vertically from front acc. to IEC 60529 Company of the fininger-safe when touched vertically from front acc. to IEC 60529 Company of the fininger-safe when touched vertically from front acc. to IEC 60529 Company of the fininger-safe when touched vertically from front acc. to IEC 60529 Company of the fininger-safe when touched vertically from front acc. to IEC 60529 Company of the fininger-safe when touched vertically from front acc. to IEC 60529 Company of the fininger-safe when touched vertically from front acc. to IEC 60529 Company of the fininger-safe when touched vertically from front acc. to IEC 60529 Company of the	General technical data:	
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Auxiliary switch Power loss [W] total typical Insulation voltage with degree of pollution 3 rated value Surge voltage resistance rated value maximum permissible voltage for safe isolation in networks with grounded star point between main and auxiliary circuit in networks with grounded star point between main and auxiliary circuit in networks with grounded star point between main and auxiliary circuit Protection class IP on the front of the terminal Shock resistance acc. to IEC 60068-2-27 Mechanical service life (switching cycles) of the main contacts typical of auxiliary contacts typical Electrical endurance (switching cycles) otypical Protection against electrical shock Equipment marking acc. to DIN EN 81346-2 Q Ambient conditions: Installation altitude at height above sea level maximum Ambient temperature other installation altitude at height above sea level maximum Ambient temperature other installation altitude at height above sea level maximum Auximum Teleptocation of the surface of pollution 3 rated of 8 kV ### 400 V ### 500 V ### 50	Size of contactor can be combined company-specific	S2
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of the terminal IP00 Shock resistance	Protection class IP	
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of auxiliary contacts typical of auxiliary contacts typical 50 000 Electrical endurance (switching cycles) • typical	Mechanical service life (switching cycles)	
Electrical endurance (switching cycles)	of the main contacts typical	50 000
• typical 50 000 Protection against electrical shock finger-safe when touched vertically from front acc. to IEC 60529 Equipment marking acc. to DIN EN 81346-2 Q Ambient conditions: Installation altitude at height above sea level maximum Ambient temperature • during operation	of auxiliary contacts typical	50 000
Protection against electrical shock Equipment marking acc. to DIN EN 81346-2 Ambient conditions: Installation altitude at height above sea level maximum Ambient temperature • during operation finger-safe when touched vertically from front acc. to IEC 60529 Q 2 000 m -20 +60 °C		
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Ambient conditions: Installation altitude at height above sea level maximum Ambient temperature • during operation 2 000 m -20 +60 °C		finger-safe when touched vertically from front acc. to IEC 60529
Installation altitude at height above sea level maximum Ambient temperature	Equipment marking acc. to DIN EN 81346-2	Q
Installation altitude at height above sea level maximum Ambient temperature	Ambient conditions:	
Ambient temperature • during operation -20 +60 °C	Installation altitude at height above sea level	2 000 m
● during operation -20 +60 °C	maximum	
Same of the same o	Ambient temperature	
• during storage -50 +80 °C	during operation	-20 +60 °C
	during storage	-50 +80 °C

during transport	-50 +80 °C
Temperature compensation	-20 +60 °C
Relative humidity during operation	10 95 %

3
14 20 A
690 V
690 V
50 60 Hz
20 A
20 A
5 500 W
7 500 W
11 000 W
15 000 W
15 1/h

Auxiliary circuit:		
transverse		
1		
1		
1		
1		
2 A		
0.5 A		
1 A		
0.15 A		
0 A		
0 A		
0 A		

Protective and monitoring functions:

Trip class	Class 10		
Design of the overload release	thermal		
Operational short-circuit current breaking capacity (Ics) at AC			
• at 240 V rated value	100 A		
● at 400 V rated value	30 kA		
• at 500 V rated value	6 kA		
• at 690 V rated value	3 kA		
Maximum short-circuit current breaking capacity (Icu)			
• at AC at 240 V rated value	100 kA		
• at AC at 400 V rated value	65 kA		
• at AC at 500 V rated value	12 kA		
● at AC at 690 V rated value	5 kA		
UL/CSA ratings:			
Full-load current (FLA) for three-phase AC motor			
• at 480 V rated value	20 A		
• at 600 V rated value	20 A		
Yielded mechanical performance [hp]			
 for single-phase AC motor 			
— at 110/120 V rated value	1.5 hp		
— at 230 V rated value	3 hp		
 for three-phase AC motor 			
— at 200/208 V rated value	7.5 hp		
— at 220/230 V rated value	7.5 hp		
— at 460/480 V rated value	15 hp		
— at 575/600 V rated value	20 hp		
Contact rating of auxiliary contacts according to UL	C300 / R300		
Short-circuit protection			
Design of the short-circuit trip	magnetic		
Design of the fuse link			
 for short-circuit protection of the auxiliary switch required 	Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)		
Design of the fuse link for IT network for short-circuit protection of the main circuit			
• at 240 V	none required		
● at 400 V	100		
● at 500 V	80		
● at 690 V	63		
Installation/ mounting/ dimensions:			
Mounting position	any		

According to DIN EN 60715	Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail	
Depth Required spacing • with side-by-side mounting — forwards — Backwards — upwards — downwards — at the side — for grounded parts — forwards — upwards — Backwards — o mm • for grounded parts — forwards — at the side — o mm • for grounded parts — forwards — upwards — at the side — downwards — o mm • for live parts — forwards — forwards — o mm • for live parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side — o mm • for wards — upwards — o mm • for live parts — forwards — upwards — o mm — downwards — o mm — obonwards — o mm — of or main current circuit • for auxiliary and control circuit **Type of electrical connection • for main current circuit • for auxiliary and control current circuit **Top and bottom			
Pequired spacing • with side-by-side mounting — forwards — Backwards — upwards — downwards — at the side • for grounded parts — forwards — Backwards — o mm • for grounded parts — forwards — backwards — upwards — 50 mm • for grounded parts — forwards — upwards — Backwards — upwards — at the side — 10 mm • for live parts — forwards — forwards — backwards — o mm • for live parts — forwards — backwards — upwards — o mm • for live parts — forwards — backwards — upwards — backwards — upwards — backwards — upwards — backwards — upwards — o mm • for main current side - of ownwards — of mm • removable terminal for auxiliary and control circuit • for auxiliary and control current circuit • for auxiliary and control current circuit • for auxiliary and control current circuit • for auxiliary and control current circuit • for auxiliary and control current circuit • for main current circuit • for main current circuit • for main contects — single or multi-stranded — finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 25 mm²), 1x (1 35 mm²)	Height	140 mm	
e with side-by-side mounting - forwards - Backwards - upwards - downwards - downwards - for grounded parts - forwards - marked by a forwards - forwards - forwards - forwards - forwards - forwards - marked by a forwards - for main current circuit - for main contacts - single or multi-stranded - finely stranded with core end processing - for main contacts - single or multi-stranded - finely stranded with core end processing - for main contacts - single or multi-stranded - finely stranded with core end processing - for main current circuit a forward forward finely stranded with core end processing - for main current circuit a forward finely stranded with core end processing - for main current circuit a forward finely stranded with core end processing - for main current circuit a forward finely stranded with core end processing - for main current circuit a forward forwards a forward fo	Width	55 mm	
with side-by-side mounting — forwards — Backwards — upwards — downwards — at the side — forrounded parts — forwards — backwards — of main current circuit — removable terminal for auxiliary and control circuit Type of connectable conductor cross-sections • for main current circuit — for main current of electrical connectors for main current circuit — single or multi-stranded — finely stranded with core end processing — of mm	Depth	149 mm	
forwards 0 mm Backwards 50 mm upwards 50 mm downwards 50 mm at the side 0 mm forgrounded parts forwards 0 mm Backwards 50 mm at the side 10 mm downwards 50 mm at the side 10 mm downwards 50 mm downwards 50 mm forwards 0 mm downwards 50 mm forwards 0 mm at the side 10 mm forwards 10 mm forwards 10 mm forwards 10 mm forwards 10 mm words 10 mm downwards 50 mm downwards 50 mm at the side 10 mm for auxiliary and control current circuit 50 screw-type terminals 50 circuit 50 reauxillary and control current circuit 50 screw-type terminals 50 connectable conductor cross-sections for main current circuit 50 screw-type terminals 50 connectable conductor cross-sections for main contacts 50 connectable conductor cross-sections finely stranded with core end processing 50 cmm², 1x (1 35 mm²) finely stranded with core end processing 50 cmm², 1x (1 35 mm²)	Required spacing		
- Backwards	with side-by-side mounting		
- upwards	— forwards	0 mm	
- downwards	— Backwards	0 mm	
- at the side 0 mm • for grounded parts - forwards 0 mm - Backwards 0 mm - upwards 50 mm - at the side 10 mm • for live parts - forwards 0 mm • for live parts - forwards 0 mm • for live parts - forwards 0 mm - Backwards 0 mm - Backwards 0 mm - upwards 50 mm - downwards 50 mm - at the side 10 mm - onnections/ Terminals: Product function • removable terminal for auxiliary and control circuit Type of electrical connection • for main current circuit screw-type terminals Arrangement of electrical connectors for main current circuit Type of connectable conductor cross-sections • for main contacts - single or multi-stranded - finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²) - finely stranded with core end processing 2x (1 16 mm²), 1x (1 25 mm²)	— upwards	50 mm	
• for grounded parts — forwards — Backwards — upwards — at the side — downwards — for live parts — forwards — nowards — sackwards — omm — sackwards — omm — sackwards — upwards — omm — at the side — downwards — omm — sackwards — upwards — downwards — downwards — at the side — omm — at the side **Torminals: **Product function • removable terminal for auxiliary and control circuit **Tope of electrical connection • for main current circuit • for auxiliary and control current circuit **Arrangement of electrical connectors for main current circuit **Tope of connectable conductor cross-sections • for main contacts — single or multi-stranded — finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²) — finely stranded with core end processing **Top ond man in the stranded — finely stranded with core end processing **Top ond man in the stranded — finely stranded with core end processing **Top ond man in the stranded — finely stranded with core end processing **Top ond man in the stranded — finely stranded with core end processing **Top ond man in the stranded — finely stranded with core end processing	— downwards	50 mm	
forwards 0 mm Backwards 0 mm upwards 50 mm at the side 10 mm downwards 50 mm • for live parts forwards 0 mm Backwards 0 mm Backwards 0 mm Backwards 50 mm upwards 50 mm downwards 50 mm downwards 50 mm downwards 50 mm at the side 10 mm at th	— at the side	0 mm	
Backwards	• for grounded parts		
— upwards 50 mm — at the side 10 mm — downwards 50 mm • for live parts 0 mm — forwards 0 mm — Backwards 0 mm — upwards 50 mm — upwards 50 mm — downwards 50 mm — at the side 10 mm — at the side 10 mm Fornections/ Terminals: Product function • removable terminal for auxiliary and control circuit Type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control current circuit screw-type terminals Arrangement of electrical connectors for main current circuit Type of connectable conductor cross-sections • for main contacts — single or multi-stranded — finely stranded with core end processing 2x (1 25 mm²), 1x (1 25 mm²)	— forwards	0 mm	
— at the side 10 mm — downwards 50 mm • for live parts 0 mm — forwards 0 mm — Backwards 0 mm — upwards 50 mm — downwards 50 mm — at the side 10 mm • removable terminal for auxiliary and control circuit Type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control current circuit screw-type terminals Arrangement of electrical connectors for main current circuit Type of connectable conductor cross-sections • for main contacts — single or multi-stranded — finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²) — finely stranded with core end processing 2x (1 16 mm²), 1x (1 35 mm²)	— Backwards	0 mm	
- downwards • for live parts - forwards 0 mm 0 mm - words - upwards - downwards - downwards - at the side downwards downwards downwards at the side downwards down	— upwards	50 mm	
for live parts — forwards — Backwards — upwards — downwards — at the side **Torminals:** Product function • removable terminal for auxiliary and control circuit Type of electrical connection • for main current circuit • for auxiliary and control circuit Arrangement of electrical connectors for main current circuit Type of connectable conductor cross-sections • for main contacts — single or multi-stranded — finely stranded with core end processing **Top ond **Top	— at the side	10 mm	
- forwards - Backwards - upwards - downwards - at the side - at the side - removable terminal for auxiliary and control circuit - for main current circuit - for auxiliary and control current circuit - for auxiliary and control current circuit - for auxiliary and control current circuit - for auxiliary and control current circuit - for main current of electrical connectors for main current circuit - for main contacts - single or multi-stranded - finely stranded with core end processing - 0 mm - 0 mm - 0 mm - 10 mm No - No - Screw-type terminals - Top and bottom - Top and bottom - Single or multi-stranded - finely stranded with core end processing - 2x (1 25 mm²), 1x (1 35 mm²) - 2x (1 16 mm²), 1x (1 25 mm²)	— downwards	50 mm	
— Backwards — upwards — downwards — at the side To mm Tonnections/ Terminals: Product function • removable terminal for auxiliary and control circuit Type of electrical connection • for main current circuit • for auxiliary and control current circuit Arrangement of electrical connectors for main current circuit Type of connectable conductor cross-sections • for main contacts — single or multi-stranded — finely stranded with core end processing 0 mm No No Top and bottom 2x (1 25 mm²), 1x (1 35 mm²) — finely stranded with core end processing 2x (1 16 mm²), 1x (1 25 mm²)	• for live parts		
— upwards — downwards — at the side 10 mm - at the side • removable terminals: - removable terminal for auxiliary and control circuit - for main current circuit • for auxiliary and control current circuit - for main contacts - single or multi-stranded - finely stranded with core end processing - 2x (1 25 mm²), 1x (1 35 mm²) - finely stranded with core end processing - 2x (1 16 mm²), 1x (1 25 mm²)			
- downwards - at the side To mm Tonnections/ Terminals: Product function • removable terminal for auxiliary and control circuit Type of electrical connection • for main current circuit • for auxiliary and control current circuit Arrangement of electrical connectors for main current circuit Type of connectable conductor cross-sections • for main contacts - single or multi-stranded - finely stranded with core end processing 50 mm No No Top and bottom 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 25 mm²), 1x (1 25 mm²)	— Backwards	0 mm	
— at the side Tonnections/ Terminals: Product function • removable terminal for auxiliary and control circuit Type of electrical connection • for main current circuit • for auxiliary and control current circuit Arrangement of electrical connectors for main current circuit Type of connectable conductor cross-sections • for main contacts — single or multi-stranded — finely stranded with core end processing 10 mm No No Screw-type terminals Top and bottom 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 25 mm²), 1x (1 25 mm²)	— upwards	50 mm	
Product function • removable terminal for auxiliary and control circuit Type of electrical connection • for main current circuit • for auxiliary and control current circuit Arrangement of electrical connectors for main current circuit Type of connectable conductor cross-sections • for main contacts — single or multi-stranded — finely stranded with core end processing No No No Screw-type terminals Top and bottom Top and bottom 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 25 mm²), 1x (1 25 mm²)	— downwards	50 mm	
Product function • removable terminal for auxiliary and control circuit Type of electrical connection • for main current circuit • for auxiliary and control current circuit Arrangement of electrical connectors for main current circuit Type of connectable conductor cross-sections • for main contacts — single or multi-stranded — finely stranded with core end processing No No No No No Screw-type terminals Top and bottom Top and bottom 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 25 mm²), 1x (1 25 mm²)	— at the side	10 mm	
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Type of electrical connection • for main current circuit • for auxiliary and control current circuit Arrangement of electrical connectors for main current circuit Type of connectable conductor cross-sections • for main contacts — single or multi-stranded — finely stranded with core end processing screw-type terminals Top and bottom Top and bottom 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 16 mm²), 1x (1 25 mm²)	Product function		
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 ◆ for auxiliary and control current circuit Arrangement of electrical connectors for main current circuit Top and bottom Type of connectable conductor cross-sections ◆ for main contacts — single or multi-stranded — finely stranded with core end processing Screw-type terminals Top and bottom 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 25 mm²), 1x (1 25 mm²) 	Type of electrical connection		
Arrangement of electrical connectors for main current circuit Type of connectable conductor cross-sections • for main contacts — single or multi-stranded — finely stranded with core end processing Top and bottom Top and bottom 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 16 mm²), 1x (1 25 mm²)	for main current circuit	screw-type terminals	
Type of connectable conductor cross-sections • for main contacts — single or multi-stranded — finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 16 mm²), 1x (1 25 mm²)	 for auxiliary and control current circuit 	screw-type terminals	
 for main contacts — single or multi-stranded — finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 16 mm²), 1x (1 25 mm²) 	Arrangement of electrical connectors for main current circuit	Top and bottom	
 single or multi-stranded finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 16 mm²), 1x (1 25 mm²) 	Type of connectable conductor cross-sections		
— finely stranded with core end processing 2x (1 16 mm²), 1x (1 25 mm²)	• for main contacts		
	— single or multi-stranded	2x (1 25 mm²), 1x (1 35 mm²)	
• at AWG conductors for main contacts 2x (18 3), 1x (18 2)	 finely stranded with core end processing 	2x (1 16 mm²), 1x (1 25 mm²)	
	 at AWG conductors for main contacts 	2x (18 3), 1x (18 2)	
Type of connectable conductor cross-sections	Type of connectable conductor cross-sections		
• for auxiliary contacts	• for auxiliary contacts		
— single or multi-stranded 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)	— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)	
— finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	

 at AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14)
Tightening torque	
 for main contacts with screw-type terminals 	3 4.5 N·m
• for auxiliary contacts with screw-type terminals	0.8 1.2 N·m
Design of screwdriver shaft	Diameter 5 to 6 mm
Design of the thread of the connection screw	
• for main contacts	M6
 of the auxiliary and control contacts 	M3

Safety related data:		
B10 value		
 with high demand rate acc. to SN 31920 	5 000	
Proportion of dangerous failures		
 with low demand rate acc. to SN 31920 	40 %	
 with high demand rate acc. to SN 31920 	50 %	
Failure rate [FIT]		
 with low demand rate acc. to SN 31920 	50 FIT	
T1 value for proof test interval or service life acc. to	10 y	
IEC 61508		
Display version		
 for switching status 	Handle	

Certificates/approvals

General Prod	uct Approval		Declaration of Conformity	Test Certificates	
<u> </u>	(SA	UL	EG-Konf.	spezielle Prüfbescheinigunge <u>n</u>	Typprüfbescheinigu ng/Werkszeugnis

other	Railway
Umweltbestätigung	Schwingen/Schocke

<u>n</u>

Further information

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

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

 $\underline{ https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV20314BA15}$

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV20314BA15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV20314BA15



