SIEMENS

Data sheet

3RV2311-1AC20



Circuit breaker size S00 for starter combination Rated current 1.6 A Nrelease 21 A Spring-type terminal Standard switching capacity

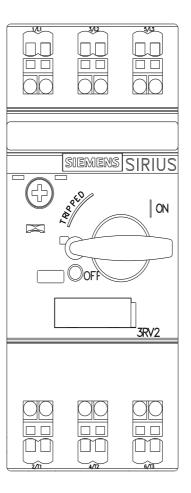
product brand name SIRUS product type designation Circuit breaker design of the product For starter combinations product type designation 3RV2 General technical data S00 size of the circuit-breaker S00 size of the draule of the current Ves • at AC in hot operating state per pole Z4 W insulation voltage with degree of pollution 3 at AC rated 680 V surge voltage resistance rated value 6 kV shock resistance according to IEC 60068-2:27 Z5g / 11 ms mechanical service Iife (switching cycles) 100 000 • of the main contacts typical 100 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient temperature -20 +60 °C • during		
design of the product For starter combinations product type designation 3RV2 General technical data 500 size of the circuit-breaker S00 sold State of the circuit-breaker sold Sta	product brand name	SIRIUS
product type designation 3RV2 Central tochnical data size of contactor can be combined company-specific S00 product extension auxiliary switch Yes Yes power loss [W] for rated value of the current * 14 AC in hot operating state 7.25 W • at AC in hot operating state per pole 2.4 W 680 V surge voltage resistance rated value 6 kV 500 (000 (000 (000 (000 (000 (000 (000	product designation	Circuit breaker
General technical data size of the circuit-breaker \$00 size of contactor can be combined company-specific \$00, \$0 product extension auxiliary switch Yes power loss [W] for rated value of the current • at AC in hot operating state 7.25 W • at AC in hot operating state prole 2.4 W insulation voltage with degree of pollution 3 at AC rated value 690 V surge voltage resistance rated value 6 kV shock resistance according to IEC 60068-2-27 25g / 11 ms mechanical service life (switching cycles) • of the main contacts typical • of the main contacts typical 100 000 • of auxiliary contacts typical 100 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions 2000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -50+60 °C • during genation -50+80 °C relative humidity during operation 1095 % Main circuit 3 number of poles for main current circuit 3 operating voltage 20690 V • at AC-3 rated value maximum 690 V • at AC-3 rated value maximum 690 V • at AC-3 rat		For starter combinations
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power loss [W] for rated value of the current at AC in hot operating state at AC in hot operating state per pole 2.4 W insulation voltage with degree of pollution 3 at AC rated 680 V surge voltage resistance according to IEC 60068-2-27 25g / 11 ms mechanical service life (switching cycles) of the main contacts typical 100 000 efference code according to IEC 61346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient temperature during operation efference code according to IEC 81346-2 Q substance Prohibitance (Date) 10/01/2009 Ambient temperature during operation -20 +60 °C -50 +80 °C relative humidity during operation -50 +80 °C installation altitude at height above sea level maximum 3 operating voltage -50 +80 °C relative humidity during operation 10 95 % 40 and circuit 3 operating voltage -60 V at AC-3 rated value m	size of contactor can be combined company-specific	S00, S0
• at AC in hot operating state per pole 2.4 W • insulation voltage with degree of pollution 3 at AC rated value 680 V surge voltage resistance rated value 6 kV shock resistance according to IEC 60068-2-27 25g / 11 ms mechanical service Iife (switching cycles) 0000 • of the main contacts typical 100 000 electrical endurance (switching cycles) typical 100 000 electrical endurance (switching cycles) typical 100 000 enderstance according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions 10/01/2009 installation altitude at height above sea level maximum 2 000 m ambient temperature -50 +60 °C • during transport -50 +80 °C • at AC-3 rated value 20 690 V • at	product extension auxiliary switch	Yes
• at AC in hot operating state per pole 2.4 W insulation voltage with degree of pollution 3 at AC rated value 680 V surge voltage resistance rated value 6 kV shock resistance according to IEC 60068-2:27 25g / 11 ms mechanical service life (switching cycles) 00 000 • of auxiliary contacts typical 100 000 electrical endurance (switching cycles) typical 100 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions installation altitude at height above sea level maximum ambient temperature -20 +60 °C • during strage -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 operating voltage -60 V • at AC-3 rated value 20 690 V • at AC-3 rated value 50 60 Hz operational current rated value 50 60 Hz operational current 1.6 A operational current 1.6 A	power loss [W] for rated value of the current	
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value 6 kV shock resistance according to IEC 60068-2-27 25g / 11 ms mechanical service Iife (switching cycles) 0000 • of the main contacts typical 100 000 electrical endurance (switching cycles) typical 100 000 electrical endurance (switching cycles) typical 100 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions 10/01/2009 installation altitude at height above sea level maximum 2 000 m ambient temperature - • during operation -20 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 operating voltage - • at AC-3 rated value maximum 690 V • at AC-3 rated value maximum 690 V • at AC-3 rated value 50 60 Hz operational current 50 60 Hz operational current 1.6 A	at AC in hot operating state per pole	2.4 W
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• of auxiliary contacts typical100 000electrical endurance (switching cycles) typical100 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2009Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature-20 +60 °C• during operation-20 +60 °C• during storage-50 +80 °C• during transport-50 +80 °Crelative humidity during operation10 95 %Main circuit3operating voltage20 690 V• at AC-3 rated value maximum690 Voperating frequency rated value50 60 Hzoperating largency rated value50 60 Hzoperational current1.6 A	mechanical service life (switching cycles)	
electrical endurance (switching cycles) typical 100 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions 10/01/2009 installation altitude at height above sea level maximum 2 000 m ambient temperature -20 +60 °C • during operation -20 +60 °C • during storage -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 operating voltage -20 690 V • at AC-3 rated value maximum 690 V • operating frequency rated value 50 60 Hz operating frequency rated value 50 60 Hz operating la current rated value 1.6 A	 of the main contacts typical 	100 000
reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -20 +60 °C • during operation -20 +80 °C • during transport -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 operating voltage -20 690 V • at AC-3 rated value maximum 690 V • operating frequency rated value 50 60 Hz operating frequency rated value 50 60 Hz operating at AC-3 at 400 V rated value 1.6 A	 of auxiliary contacts typical 	100 000
Substance Prohibitance (Date) 10/01/2009 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 -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 operating voltage - • rated value 20 690 V • at AC-3 rated value maximum 690 V operating frequency rated value 50 60 Hz operating frequency rated value 10.6 A	electrical endurance (switching cycles) typical	100 000
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 -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 operating voltage -690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operating frequency rated value 1.6 A operational current 1.6 A	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 storage -50 +80 °C • during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit 3 operating voltage - • rated value 20 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V • operating frequency rated value 50 60 Hz operational current rated value 1.6 A	Substance Prohibitance (Date)	10/01/2009
ambient temperature• during operation-20 +60 °C• during storage-50 +80 °C• during transport-50 +80 °Crelative humidity during operation10 95 %Main circuit3number of poles for main current circuit3operating voltage-690 V• at AC-3 rated value maximum690 V• at AC-3e rated value maximum690 Voperating frequency rated value50 60 Hzoperational current1.6 Aoperational current-60 V• at AC-3 at 400 V rated value1.6 A	Ambient conditions	
• during operation-20 +60 °C• during storage-50 +80 °C• during transport-50 +80 °Crelative humidity during operation10 95 %Main circuit3number of poles for main current circuit3operating voltage-• rated value20 690 V• at AC-3 rated value maximum690 V• at AC-3e rated value maximum690 Voperating frequency rated value50 60 Hzoperational current rated value1.6 Aoperational current 64• at AC-3 at 400 V rated value1.6 A	installation altitude at height above sea level maximum	2 000 m
• during storage-50 +80 °C• during transport-50 +80 °Crelative humidity during operation10 95 %Main circuit3number of poles for main current circuit3operating voltage20 690 V• rated value20 690 V• at AC-3 rated value maximum690 V• at AC-3e rated value maximum690 Voperating frequency rated value50 60 Hzoperational current rated value1.6 Aoperational current1.6 A	ambient temperature	
• during transport-50 +80 °Crelative humidity during operation10 95 %Main circuit3number of poles for main current circuit3operating voltage20 690 V• rated value20 690 V• at AC-3 rated value maximum690 V• at AC-3e rated value maximum690 Voperating frequency rated value50 60 Hzoperational current rated value1.6 Aoperational current1.6 A	 during operation 	-20 +60 °C
relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 operating voltage 20 690 V • rated value 20 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 1.6 A operational current 1.6 A	 during storage 	-50 +80 °C
Main circuit 3 number of poles for main current circuit 3 operating voltage 20 690 V • rated value 20 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 1.6 A operational current 1.6 A	 during transport 	-50 +80 °C
number of poles for main current circuit3operating voltage20 690 V• rated value20 690 V• at AC-3 rated value maximum690 V• at AC-3e rated value maximum690 Voperating frequency rated value50 60 Hzoperational current rated value1.6 Aoperational current1.6 A	relative humidity during operation	10 95 %
operating voltage20 690 V• rated value20 690 V• at AC-3 rated value maximum690 V• at AC-3e rated value maximum690 Voperating frequency rated value50 60 Hzoperational current rated value1.6 Aoperational current1.6 A	Main circuit	
 rated value at AC-3 rated value maximum 690 V at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 1.6 A operational current at AC-3 at 400 V rated value 1.6 A 	number of poles for main current circuit	3
• at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 1.6 A operational current 1.6 A	operating voltage	
• at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 1.6 A operational current 1.6 A • at AC-3 at 400 V rated value 1.6 A	 rated value 	20 690 V
operating frequency rated value50 60 Hzoperational current rated value1.6 Aoperational current1.6 A• at AC-3 at 400 V rated value1.6 A	 at AC-3 rated value maximum 	690 V
operational current rated value 1.6 A operational current 1.6 A • at AC-3 at 400 V rated value 1.6 A	at AC-3e rated value maximum	690 V
operational current • at AC-3 at 400 V rated value 1.6 A	operating frequency rated value	50 60 Hz
• at AC-3 at 400 V rated value 1.6 A	operational current rated value	1.6 A
	operational current	
• at AC-3e at 400 V rated value 1.6 A	• at AC-3 at 400 V rated value	1.6 A
	 at AC-3e at 400 V rated value 	1.6 A

operating power	
• at AC-3	
— at 230 V rated value	0.3 kW
— at 400 V rated value	0.6 kW
— at 500 V rated value	0.8 kW
— at 690 V rated value	1.1 kW
• at AC-3e	
— at 230 V rated value	0.3 kW
— at 400 V rated value	0.6 kW
— at 500 V rated value	0.8 kW
— at 690 V rated value	1.1 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
Protective and monitoring functions	
product function	
ground fault detection	No
phase failure detection	No
breaking capacity maximum short-circuit current (lcu)	
at AC at 240 V rated value	100 kA
at AC at 400 V rated value	100 kA
at AC at 500 V rated value	100 kA
at AC at 690 V rated value	100 kA
breaking capacity operating short-circuit current (Ics)	
at AC	
• at 240 V rated value	100 kA
• at 400 V rated value	100 kA
• at 500 V rated value	100 kA
• at 690 V rated value	100 kA
response value current of instantaneous short-circuit trip unit	21 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
 at 480 V rated value 	1.6 A
at 600 V rated value	1.6 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 230 V rated value	0.1 hp
 for 3-phase AC motor 	
— at 460/480 V rated value	1 hp
— at 575/600 V rated value	0.8 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link for IT network for short-circuit	
protection of the main circuit	
• at 500 V	gL/gG 20 A
• at 690 V	gL/gG 16 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
height	106 mm
width	45 mm
depth	97 mm
required spacing	

Tor drounded parts at 400 V		
 for grounded parts at 400 V — downwards 	30 mm	
— upwards	30 mm	
— at the side	9 mm	
• for live parts at 400 V		
— downwards	30 mm	
— upwards	30 mm	
— at the side	9 mm	
 for grounded parts at 500 V 	5 mm	
- downwards	30 mm	
— upwards	30 mm	
— at the side	9 mm	
• for live parts at 500 V	3 1111	
— downwards	30 mm	
— upwards	30 mm	
— at the side	9 mm	
	9 11111	
 for grounded parts at 690 V downwards 	50 mm	
	50 mm	
— upwards — backwards	50 mm 0 mm	
— at the side	30 mm	
— forwards	0 mm	
• for live parts at 690 V	50	
— downwards	50 mm	
— upwards	50 mm	
— backwards	0 mm	
— at the side	30 mm	
— forwards	0 mm	
Connections/ Terminals		
type of electrical connection		
for main current circuit	spring-loaded terminals	
arrangement of electrical connectors for main current circuit	Top and bottom	
type of connectable conductor cross-sections		
 for main contacts 		
— solid or stranded	2x (0,5 4 mm²)	
 — solid or stranded — finely stranded with core end processing 	2x (0,5 4 mm²) 2x (0.5 2.5 mm²)	
- finely stranded with core end processing	2x (0.5 2.5 mm²)	
 finely stranded with core end processing finely stranded without core end processing 	2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)	
 finely stranded with core end processing finely stranded without core end processing at AWG cables for main contacts 	2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (20 12)	
 finely stranded with core end processing finely stranded without core end processing at AWG cables for main contacts design of screwdriver shaft 	2x (0.5 2.5 mm ²) 2x (0.5 2.5 mm ²) 2x (20 12) Diameter 3 mm	
 finely stranded with core end processing finely stranded without core end processing at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip 	2x (0.5 2.5 mm ²) 2x (0.5 2.5 mm ²) 2x (20 12) Diameter 3 mm	
 finely stranded with core end processing finely stranded without core end processing at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip Safety related data 	2x (0.5 2.5 mm ²) 2x (0.5 2.5 mm ²) 2x (20 12) Diameter 3 mm	
 finely stranded with core end processing finely stranded without core end processing at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip Safety related data B10 value 	2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm	
 finely stranded with core end processing finely stranded without core end processing at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip Safety related data B10 value with high demand rate according to SN 31920 	2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm	
 finely stranded with core end processing finely stranded without core end processing at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures 	2x (0.5 2.5 mm ²) 2x (0.5 2.5 mm ²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm 5 000	
 finely stranded with core end processing finely stranded without core end processing at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip 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 (0.5 2.5 mm ²) 2x (0.5 2.5 mm ²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm 5 000 50 %	
 finely stranded with core end processing finely stranded without core end processing at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip 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 with high demand rate according to SN 31920 failure rate [FIT] 	2x (0.5 2.5 mm ²) 2x (0.5 2.5 mm ²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm 5 000 50 %	
 finely stranded with core end processing finely stranded without core end processing at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip Safety related data B10 value with high demand rate according to SN 31920 with low demand rate according to SN 31920 with high demand rate according to SN 31920 with high demand rate according to SN 31920 	2x (0.5 2.5 mm ²) 2x (0.5 2.5 mm ²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm 5 000 50 % 50 %	
 finely stranded with core end processing finely stranded without core end processing at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to SN 31920 	2x (0.5 2.5 mm ²) 2x (0.5 2.5 mm ²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm 5 000 50 % 50 % 50 %	
 finely stranded with core end processing finely stranded without core end processing at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip 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 with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 	2x (0.5 2.5 mm ²) 2x (0.5 2.5 mm ²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm 5 000 50 % 50 % 50 % 50 FIT 10 y	
 finely stranded with core end processing finely stranded without core end processing at AWG cables for main contacts design of screwdriver shaft size of the screwdriver shaft Safety related data B10 value with high demand rate according to SN 31920 with low demand rate according to SN 31920 with high demand rate according to SN 31920 with high demand rate according to SN 31920 with high demand rate according to SN 31920 Ta value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 	2x (0.5 2.5 mm ²) 2x (0.5 2.5 mm ²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm 5 000 50 % 50 % 50 % 50 FIT 10 y IP20	
 finely stranded with core end processing finely stranded without core end processing at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip Safety related data B10 value with high demand rate according to SN 31920 with low demand rate according to SN 31920 with high demand rate according to SN 31920 with high demand rate according to SN 31920 with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 	2x (0.5 2.5 mm ²) 2x (0.5 2.5 mm ²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm 5 000 50 % 50 % 50 % 50 FIT 10 y IP20 finger-safe, for vertical contact from the front	
 finely stranded with core end processing finely stranded without core end processing at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip 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 with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 display version for switching status 	2x (0.5 2.5 mm ²) 2x (0.5 2.5 mm ²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm 5 000 50 % 50 % 50 % 50 FIT 10 y IP20 finger-safe, for vertical contact from the front	Declaration of

	<u>Confirmation</u>	CCC CCC		EHC	UK CA
Declaration of Conformity	Test Certificates		Marine / Shipping		
CE EG-Konf.	Special Test Certific- ate	Type Test Certific- ates/Test Report	ABS	B U R E A U VERITAS	
Marine / Shipping				other	
Lloyds Register us	PRS	RINA	RMRS	<u>Confirmation</u>	DE VDE
Railway					
Vibration and Shock	<u>Confirmation</u>				

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Cax online http://suppo	generator t.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2311-1AC20
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	base (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) utomation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2311-1AC20⟨=en
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	racteristics (e.g. electrical endurance, switching frequency) utomation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2311-1AC20&objecttype=14&gridview=view



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