SIEMENS

Data sheet

3RV2331-4EC10



Circuit breaker size S2 for starter combination Rated current 32 A N-release 416 A screw terminal Standard switching capacity

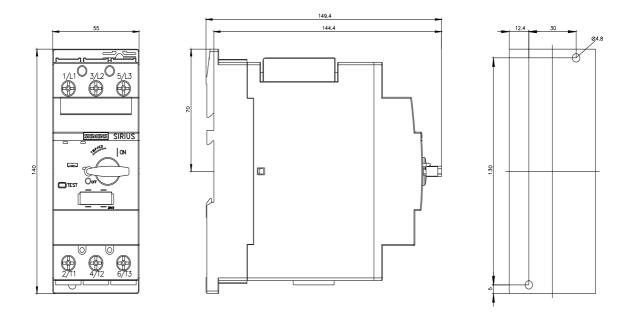
4/13 4/13			
product brand name	SIRIUS		
, product designation	Circuit breaker		
design of the product	For starter combinations		
product type designation	3RV2		
General technical data			
size of the circuit-breaker	S2		
size of contactor can be combined company-specific	S2		
product extension auxiliary switch	Yes		
power loss [W] for rated value of the current			
 at AC in hot operating state 	18 W		
 at AC in hot operating state per pole 	6 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 Sinus		
mechanical service life (operating cycles)			
 of the main contacts typical 	50 000		
 of auxiliary contacts typical 	50 000		
electrical endurance (operating cycles) typical	50 000		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	10/15/2014		
Ambient conditions			
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			
number of poles for main current 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	32 A		
operational current			
 at AC-3 at 400 V rated value 	32 A		
 at AC-3e at 400 V rated value 	32 A		
operating power			
• at AC-3			
— at 230 V rated value	7.5 kW		

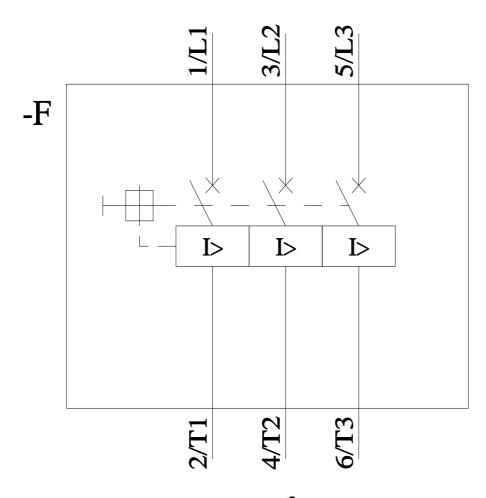
— at 400 V rated value	15 kW
— at 500 V rated value	18.5 kW
— at 690 V rated value	30 kW
• at AC-3e	
	7 5 1 1 4
— at 230 V rated value	7.5 kW
— at 400 V rated value	15 kW
— at 500 V rated value	18.5 kW
— at 690 V rated value	30 kW
operating frequency	
 at AC-3 maximum 	15 1/h
 at AC-3e maximum 	15 1/h
Auxiliary circuit	
	0
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
Protective and monitoring functions	
product function	
 ground fault detection 	No
phase failure detection	No
maximum short-circuit current breaking capacity (Icu)	
	100 kA
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 	10 kA
 at AC at 690 V rated value 	4 kA
operating short-circuit current breaking capacity (lcs)	
at AC	
 at 240 V rated value 	100 kA
 at 400 V rated value 	30 kA
 at 500 V rated value 	5 kA
 at 690 V rated value 	2 kA
response value current of instantaneous short-circuit trip	416 A
unit	
UL/CSA ratings	
o El cost tratiligo	
full load augment (ELA) for 2 phase AC mater	
full-load current (FLA) for 3-phase AC motor	20 A
at 480 V rated value	32 A
at 480 V rated valueat 600 V rated value	32 A 32 A
at 480 V rated value	
at 480 V rated valueat 600 V rated value	
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] 	
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor 	32 A
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value 	32 A 3 hp
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value 	32 A 3 hp 5 hp
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value 	32 A 3 hp 5 hp 10 hp
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value 	32 A 3 hp 5 hp 10 hp 10 hp
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value 	32 A 3 hp 5 hp 10 hp 10 hp 25 hp
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value 	32 A 3 hp 5 hp 10 hp 10 hp
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value Short-circuit protection 	32 A 3 hp 5 hp 10 hp 10 hp 25 hp 30 hp
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value 	32 A 3 hp 5 hp 10 hp 10 hp 25 hp
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 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value Short-circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit 	32 A 3 hp 5 hp 10 hp 10 hp 25 hp 30 hp Yes
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 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 460/480 V rated value at 575/600 V rated value Short-circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit at 240 V 	32 A 3 hp 5 hp 10 hp 10 hp 25 hp 30 hp Yes magnetic none required
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value Short-circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit at 240 V at 400 V 	32 A 3 hp 5 hp 10 hp 10 hp 25 hp 30 hp Yes magnetic none required 125
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value Short-circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit at 240 V at 500 V at 690 V 	32 A 3 hp 5 hp 10 hp 10 hp 25 hp 30 hp Yes magnetic none required 125 100
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit at 240 V at 400 V at 690 V 	32 A 3 hp 5 hp 10 hp 10 hp 25 hp 30 hp Yes magnetic none required 125 100 80
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 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit at 240 V at 400 V at 500 V at 690 V Installation/ mounting/ dimensions mounting position fastening method height 	32 A 3 hp 5 hp 10 hp 10 hp 25 hp 30 hp Yes magnetic None required 125 100 80 Any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 140 mm
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value Short-circuit protection product function short circuit protection design of the fuse link for IT network for short-circuit protection of the main circuit at 240 V at 400 V at 500 V at 690 V Installation/ mounting/ dimensions mounting position fastening method height width 	32 A 3 hp 5 hp 10 hp 10 hp 25 hp 30 hp Yes magnetic none required 125 100 80 Regioned 125 100 80 Regioned 125 100 80 Regioned 125 100 80 Regioned 125 100 80 Regioned 125 100 80 Regioned 125 100 80 Regioned 125 100 80 Regioned 125 100 80 Regioned 125 100 80 Regioned 125 100 80 Regioned 125 100 80 Regioned 125 100 80 Regioned 125 100 80 80 80 80 80 80 80 80 80
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 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value Short-circuit protection product function short circuit protection design of the fuse link for IT network for short-circuit protection of the main circuit at 240 V at 400 V at 500 V at 690 V Installation/ mounting/ dimensions mounting position fastening method height width 	32 A 3 hp 5 hp 10 hp 10 hp 25 hp 30 hp Yes magnetic none required 125 100 80 Regioned 125 100 80 Regioned 125 100 80 Regioned 125 100 80 Regioned 125 100 80 Regioned 125 100 80 Regioned 125 100 80 Regioned 125 100 80 Regioned 125 100 80 Regioned 125 100 80 Regioned 125 100 80 Regioned 125 100 80 Regioned 125 100 80 Regioned 125 100 80 80 80 80 80 80 80 80 80
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— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
 for live parts at 400 V 	
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
 for grounded parts at 500 V 	
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
 for live parts at 500 V 	
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
 for grounded parts at 690 V 	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	10 mm
— forwards	0 mm
• for live parts at 690 V	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	10 mm
— forwards	0 mm
	V mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	
 for main contacts 	
for main contacts — solid or stranded	2x (1 25 mm²), 1x (1 35 mm²)
	2x (1 25 mm²), 1x (1 35 mm²) 2x (1 16 mm²), 1x (1 25 mm²)
— solid or stranded	
 — solid or stranded — finely stranded with core end processing 	2x (1 16 mm²), 1x (1 25 mm²)
 — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts 	2x (1 16 mm²), 1x (1 25 mm²)
 — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts tightening torque 	2x (1 16 mm²), 1x (1 25 mm²) 2x (18 3), 1x (18 2)
 — solid or stranded — finely stranded with core end processing at AWG cables for main contacts tightening torque for main contacts with screw-type terminals 	2x (1 16 mm²), 1x (1 25 mm²) 2x (18 3), 1x (18 2) 3 4.5 N·m
 — solid or stranded — finely stranded with core end processing at AWG cables for main contacts tightening torque for main contacts with screw-type terminals design of screwdriver shaft 	2x (1 16 mm²), 1x (1 25 mm²) 2x (18 3), 1x (18 2) 3 4.5 N·m Diameter 5 to 6 mm
 — solid or stranded — finely stranded with core end processing at AWG cables for main contacts tightening torque for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip 	2x (1 16 mm²), 1x (1 25 mm²) 2x (18 3), 1x (18 2) 3 4.5 N·m Diameter 5 to 6 mm
 — solid or stranded — finely stranded with core end processing at AWG cables for main contacts tightening torque for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main contacts 	2x (1 16 mm²), 1x (1 25 mm²) 2x (18 3), 1x (18 2) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2
 — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts 	2x (1 16 mm²), 1x (1 25 mm²) 2x (18 3), 1x (18 2) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2
 — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value	2x (1 16 mm²), 1x (1 25 mm²) 2x (18 3), 1x (18 2) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6
 — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 	2x (1 16 mm²), 1x (1 25 mm²) 2x (18 3), 1x (18 2) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2
 — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures 	2x (1 16 mm ²), 1x (1 25 mm ²) 2x (18 3), 1x (18 2) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6
 — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main 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 (1 16 mm ²), 1x (1 25 mm ²) 2x (18 3), 1x (18 2) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 %
 — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts 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 	2x (1 16 mm ²), 1x (1 25 mm ²) 2x (18 3), 1x (18 2) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6
 — solid or stranded — finely stranded with core end processing at AWG cables for main contacts tightening torque for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main 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 (1 16 mm ²), 1x (1 25 mm ²) 2x (18 3), 1x (18 2) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 %
 — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main 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 failure rate [FIT] with low demand rate according to SN 31920 	2x (1 16 mm ²), 1x (1 25 mm ²) 2x (18 3), 1x (18 2) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 % 50 % 50 %
 — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main 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 failure rate [FIT] • with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 	2x (1 16 mm ²), 1x (1 25 mm ²) 2x (18 3), 1x (18 2) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 % 50 % 50 FIT 10 a
 – solid or stranded finely stranded with core end processing at AWG cables for main contacts tightening torque for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main 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 thigh demand rate according to SN 31920 with high demand rate according to SN 31920 Ti value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 	2x (1 16 mm ²), 1x (1 25 mm ²) 2x (18 3), 1x (18 2) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 % 50 % 50 % 50 FIT 10 a IP20
 — solid or stranded — finely stranded with core end processing at AWG cables for main contacts tightening torque for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main 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 thigh demand rate according to SN 31920 with high demand rate according to SN 31920 Ti 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 (1 16 mm ²), 1x (1 25 mm ²) 2x (18 3), 1x (18 2) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 % 50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contact from the front
 — solid or stranded — finely stranded with core end processing at AWG cables for main contacts tightening torque for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main 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 the high demand rate according to SN 31920 the 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 (1 16 mm ²), 1x (1 25 mm ²) 2x (18 3), 1x (18 2) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 % 50 % 50 % 50 FIT 10 a IP20
 — solid or stranded — finely stranded with core end processing at AWG cables for main contacts tightening torque for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main 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 thigh demand rate according to SN 31920 with high demand rate according to SN 31920 Ti 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 (1 16 mm ²), 1x (1 25 mm ²) 2x (18 3), 1x (18 2) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 % 50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contact from the front
 — solid or stranded — finely stranded with core end processing at AWG cables for main contacts tightening torque for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main 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 thigh 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 dush version for switching status 	2x (1 16 mm ²), 1x (1 25 mm ²) 2x (18 3), 1x (18 2) 3 4.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M6 5 000 50 % 50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contact from the front

SP.		<u>Confirmation</u>	UL	<u>KC</u>	EHC		
Declaration of Cor	formity	Test Certificates		Marine / Shipping			
C E EG-Konf.	UK CA	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	ABS	BUREAU VERITAS		
Marine / Shipping					other		
	Lloyds Register us	PRS	RINA	RMRS	<u>Confirmation</u>		
other	Railway						
UDE VDE	Vibration and Shock	<u>Confirmation</u>					
Further information Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2331-4EC10 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2331-4EC10 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RV2331-4EC10 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2331-4EC10⟨=en							
Characteristic: Tripping characteristics, I ² t, Let-through current <u>https://support.industry.siemens.com/cs/ww/en/ps/3RV2331-4EC10/char</u> Eurther characteristics (e.g. electrical endurance, switching frequency)							

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