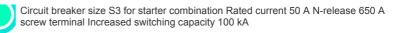
SIEMENS

Data sheet

3RV2342-4HC10



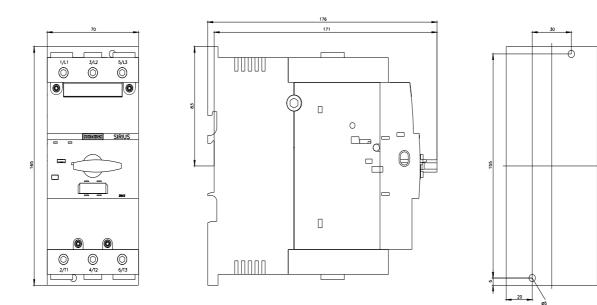


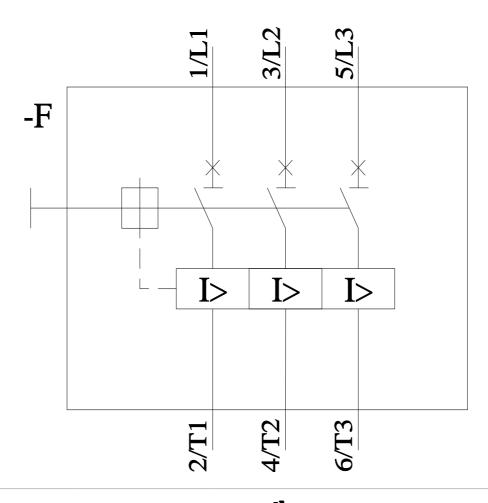
00 00			
product brand name	SIRIUS		
product designation	Circuit breaker		
design of the product	For starter combinations		
product type designation	3RV2		
General technical data			
size of the circuit-breaker	S3		
size of contactor can be combined company-specific	S3		
product extension auxiliary switch	Yes		
power loss [W] for rated value of the current			
 at AC in hot operating state 	27 W		
 at AC in hot operating state per pole 	9 W		
insulation voltage with degree of pollution 3 at AC rated value	1 000 V		
surge voltage resistance rated value	8 kV		
shock resistance according to IEC 60068-2-27	25g / 11 ms Sinus		
mechanical service life (operating cycles)			
 of the main contacts typical 	25 000		
 of auxiliary contacts typical 	25 000		
electrical endurance (operating cycles) typical	25 000		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	03/01/2017		
SVHC substance name	Lead - 7439-92-1		
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	50 A		
operational current			

• at AC-3 at 400 V rated value	50 A
at AC-3e at 400 V rated value	50 A
operating power	
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	45 kW
• at AC-3e	
— at 230 V rated value	11 kW
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	45 kW
operating frequency	
 at AC-3 maximum 	15 1/h
• at AC-3e maximum	15 1/h
Protective and monitoring functions	
product function	
 ground fault detection 	No
phase failure detection	No
design of the overload release	thermal
maximum short-circuit current breaking capacity (Icu)	
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 	15 kA
 at AC at 690 V rated value 	10 kA
operating short-circuit current breaking capacity (Ics) at AC	
at 240 V rated value	100 kA
at 400 V rated value	50 kA
at 500 V rated value	7.5 kA
at 690 V rated value	5 kA
response value current of instantaneous short-circuit trip unit	650 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	50 A
at 600 V rated value	50 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
- at 110/120 V rated value	5 hp
	•
— at 230 V rated value	10 hp
• for 3-phase AC motor	15 hz
- at 200/208 V rated value	15 hp
- at 220/230 V rated value	20 hp
- at 460/480 V rated value	40 hp
— at 575/600 V rated value	50 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	165 mm
width	70 mm
depth	176 mm
required spacing	
 with side-by-side mounting at the side 	0 mm
 for grounded parts at 400 V 	
— downwards	70 mm
— upwards	70 mm
— at the side	10 mm

• In the parts at 400 V- dowards70 mn- upwards70 mn- upwards70 mn- upwards10 mn- dowards110 mn- upwards10 mn- upwards100 mn <trr>- upwards100 mn</trr>	• for live parts at 400 V	
- uwords in a field of a sai 500 V - downwards 100 mm - upwords 000 mm - upwords		
 is for provide part at 500 V - downads 10 mm - at the side 10 mm - downaads 10 mm - at the side 0 mm - at the side 0 mm - downaads 0 mm - beckwards 00 mm - beckwards - beckwards 00 mm - beckwards - beckwards<td>-</td><td></td>	-	
downwards 10 mm spreads 150 V spreads 150 V 		10 mm
	 for grounded parts at 500 V 	
	— downwards	110 mm
 - for ive parts all SOV V - downwards 10 mm - downwards 10 mm - at the side 10 mm - at the side 00 mm - downwards 150 mm - downwards 00 mm - downwards 00 mm - backwards 0 mm - backwards - at the side 2 (2 5 50 mm) - as blot on stranded 2 (2 5 50 mm) - backwards - mely stranded with core end processing 2 (2 5 50 mm) - backwards - for main contack with sore with processing 2 (2 5 50 mm) - for main contack with sore with processing 2 (2 5 50 mm) - for main contack with sore with processing 2 (2 5 50 mm) - for main contack with sore with processing <	— upwards	110 mm
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- upwards 10 mm - at the sale 10 mm - of or younds parts at 900 V 150 mm - upwards 150 mm - upwards 00 mm - upwards 0 mm - backwards 0 mm - backwards 0 mm - backwards 0 mm - backwards 0 mm - downwards 150 mm - backwards 0 mm - downwards 0 mm - downards 0 mm - downards 0 mm - downards 2 (2550 mm?) - for main contacts - for main contacts - of or main contacts - for main contacts - ends 2 (2550 mm?) - ends 2 (2550 mm?) - ends 2 (2550 mm?) - for main conta	 for live parts at 500 V 	
	— downwards	110 mm
• for grounded parts at 680 V150 mm- downwards150 mm- backwards0 mm- backwards0 mm- this aide30 mm- forwards0 mm- forwards150 mm- forwards150 mm- downwards150 mm- downwards150 mm- backwards0 mm- backwards30 mm- backwards50 mm?- backwards50 mm?- backwards50 mm?- backwards2x (25 50 mm?) 1x (10 70 mm?)- backwards50 mm?- backwards2x (25 50 mm?) 1x (10 50 mm?)- backwards45 6 NmSafety-related without core and processing2x (10 35 mm?) 1x (10 50 mm?)- backwards10 a- backwards50 mm?- backwards50 mm?- backwards50 mm?- backwards50 mm	— upwards	110 mm
- downards150 mm- upwards0 mm- backwards0 mm- orwards0 mm- for live parts at 680 V150 mm- downards150 mm- downards150 mm- downards150 mm- upwards0 mm- upwards0 mm- upwards0 mm- backwards0 mm- the side30 mm- for vards0 mm- for vards2 (2 5 50 mm²)- for vards3 5 6 Nmupdar dimeter of the usable ring cable lug4 5 6 Nmupdar dimeter of the usable ring cable lug4 5 6 Nmupdar dimeter of the usable ring cable lug10 a- for vards10 a- sately-related switching offYes- sately-related switching offYes- sately-related switching off S 31920	— at the side	10 mm
	 for grounded parts at 690 V 	
	— downwards	150 mm
- althe side30 mm- forwards0 mmof orle pais at 600 V- downwards150 mm- upwards150 mm- upwards0 mm- backwards0 mm- at the side30 mm- at the side0 mm- for main current circuitscrew-type terminalsranagement of electrical connectors for main current circuitscrew-type terminalsranagement of electrical connectors for main current circuitscrew-type terminalsranagement of electrical connectors for main current circuitto main current circuittype of connectable conductor cross-sectionsfor main current circuitof or main contacts2x (25 16 mm²)- sold2x (25 35 mm²), 1x (10 70 mm²)- sold or stranded2x (25 35 mm²), 1x (10 70 mm²)- for main contacts for ing cable lug45 60 Nmouter diameter of the usable ring cable lug maximum19 mmtightening torqueing cama contacts without core end processing- for main contacts without core end processing2x (10 35 mm²), 1x (10 50 mm²)- for main contacts without core end processing2x (10 35 mm²), 1x (10 50 mm²)outer diameter of the usable ring cable lug maximum19 mmtightening torqueing cama contacts without core• for main contacts withoring onNosafety-related switching onNo• safety-related switching onNo• safety-related switching onNo• safety-related switching onNo• safety-related sw	— upwards	150 mm
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 for live parts at 690 V - downwards 40 wards 50 mm - backwards 0 mm - backwards 0 mm - backwards 0 mm - hards 0 mm - hards 0 mm - dowards or main current circuit sorew-type terminals arrangement of electrical connectors for main current circuit a for main contacts a for main contacts with core end processing a for main contacts with core end processing a for main contacts with screw-type terminals a f	— at the side	30 mm
	— forwards	0 mm
- upwards 150 mm - backwards 0 mm - at the side 30 mm - forwards 0 mm Connectional Terminals Top and bottom type of electrical connectors for main current circuit Top and bottom arrangement of electrical connectors for main current Top and bottom tricuit screw-type terminals arrangement of electrical connectors for main current Top and bottom tricuit screw-type terminals arrangement of electrical connectors for main current Top and bottom tricuit screw-type terminals arrangement of electrical connectors for main current Top and bottom tricuit top and bottom tricuit screw-type terminals - solid 2x (25 16 mm ²) - solid or stranded 2x (25 35 mm ²), 1x (10 70 mm ³) - fiely stranded without core end processing 2x (25 35 mm ²), 1x (10 50 mm ³) tight neind oritacts with screw-type terminals 4.5 6 Nm other diamet or the usable ring cable lug maximum 19 mm tight neind dela vest product function suitable for safety function Yes safety-related swriching on No • safety-related swriching on No • safety-related swr	 for live parts at 690 V 	
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at the side 30 mm forwards 0 mm Connections/Terminals 70 mm type of electrical connection screw-type terminals for main current circuit Top and bottom arrangement of electrical connectors for main current Top and bottom solid 2x (2.5 16 mm²) solid or stranded 2x (2.5 50 mm²), 1x (10 70 mm²) forly stranded with ore end processing 2x (2.5 50 mm²), 1x (10 50 mm²) forly stranded without core end processing 2x (10 35 mm²), 1x (10 50 mm²) for fain contracts for main contracts for ring cable lug for fain contracts with screw-type terminals 4.5 6 Nm outer dlameter of the usable ring cable lug maximum 19 mm tightening torque for main contracts with screw-type terminals for wards 4.5 6 Nm Safety related data Yes product function suitable for safety function Yes suitability for use safety-related switching on safety-related switching OFF Yes service life maximum 10 a test wear-related service life necessary Yes ewith with demand rate according to SN 31920 5000 failure rate [FIT] with lew demand rate according to SN 31920 5000	— upwards	150 mm
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Connections/ type of electrical connectors screw-type terminals • for main current circuit screw-type terminals type of connectable conductor cross-sections • for main contacts • solid or stranded 2x (2.5 16 mm²) — solid or stranded 2x (2.5 35 mm²), 1x (10 70 mm²) — solid or stranded with core end processing 2x (10 35 mm²), 1x (10 70 mm²) — finely stranded with core end processing 2x (10 35 mm²), 1x (10 50 mm²) • for main contacts for ring cable lug 4.5 6 N·m outer diameter of the usable ring cable lug maximum 19 mm tightening torque • for main contacts with screw-type terminals • for main contacts with screw-type terminals 4.5 6 N·m Safety related data	— at the side	30 mm
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• for main current circuit screen-type terminals Top and bottom Top and bottom suitable for safety function Top and bottom suitable for safety functing OFF	Connections/ Terminals	
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 for main contacts - solid 2x (25 16 mm²) 2x (25 50 mm³), 1x (10 70 mm²) - finely stranded with core end processing 2x (25 35 mm³), 1x (25 50 mm³) - finely stranded with core end processing 2x (10 35 mm³), 1x (25 50 mm³) - finely stranded without core end processing 2x (10 35 mm³), 1x (10 50 mm³) - finely stranded without core end processing 2x (10 35 mm³), 1x (10 50 mm³) - finely stranded without core end processing 2x (10 35 mm³), 1x (10 50 mm³) - finely stranded without core end processing 2x (10 35 mm³), 1x (10 50 mm³) - finely stranded without core end processing 2x (10 35 mm³), 1x (10 50 mm³) - finely stranded without core end processing 2x (10 35 mm³), 1x (10 50 mm³) - finely stranded without core end processing 2x (10 35 mm³), 1x (10 50 mm³) - finely stranded without core end processing 2x (10 35 mm³), 1x (10 50 mm³) - finely stranded with core end processing 2x (10 35 mm³), 1x (10 50 mm³) - finely stranded with core end processing 2x (10 35 mm³), 1x (10 50 mm³) - finely stranded with core end processing - finely stranded with score maximum 19 mm - finely stranded with score with score-type terminals 4.5 6 N·m Safety related switching OFF Yes - safety-related switching OFF Yes - safety force life necessary Yes - safety descording to SN 31920 50 % B10 value with high demand rate according to SN 31920 50 % FI		Top and bottom
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• for main contacts for ring cable lug4.5 6 N·mouter diameter of the usable ring cable lug maximum19 mmtightening torque 6 N·m• for main contacts with screw-type terminals4.5 6 N·mSafety related data 6 N·mproduct function suitable for safety functionYessuitability for use safety-related switching on• safety-related switching OFFYesservice life maximum10 atest wear-related service life necessaryYesproportion of dangerous failures 6 N·m• with high demand rate according to SN 3192050 %B10 value with high demand rate according to SN 3192050 000failure rate [FIT] with low demand rate according to SN 3192050 FIT33920 6 FITISO 13849 6 N·mdevice type according to ISO 13849-13overdimensioning according to ISO 13849-2 necessaryYesIEC 61508 6 N·msafety device type according to IEC 61508-2Type AT1 value 7 Ype A	 finely stranded without core end processing 	2x (10 35 mm²), 1x (10 50 mm²)
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tightening torque • for main contacts with screw-type terminals4.5 6 N·mSafety related dataproduct function suitable for safety functionYessuitability for use • safety-related switching onNo• safety-related switching OFFYesservice life maximum10 atest wear-related service life necessaryYesproportion of dangerous failures • with low demand rate according to SN 3192040 %• with high demand rate according to SN 3192050 %B10 value with high demand rate according to SN 3192050 NOfailure rate [FIT] with low demand rate according to SN 3192050 FITSlo 13849device type according to ISO 13849-1overdimensioning according to ISO 13849-2 necessaryYesIEC 61508safety device type according to IEC 61508-2Type AT1 value	 for main contacts for ring cable lug 	4.5 6 N·m
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 with low demand rate according to SN 31920 with high demand rate according to SN 31920 50 % B10 value with high demand rate according to SN 31920 50 00 failure rate [FIT] with low demand rate according to SN 31920 S0 FIT S0 13849 device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary IEC 61508 safety device type according to IEC 61508-2 Type A T1 value 	Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum	Yes No Yes 10 a
• with high demand rate according to SN 3192050 %B10 value with high demand rate according to SN 319205 000failure rate [FIT] with low demand rate according to SN 3192050 FITISO 138493device type according to ISO 13849-13overdimensioning according to ISO 13849-2 necessaryYesIEC 61508Type Asafety device type according to IEC 61508-2Type A	Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary	Yes No Yes 10 a
B10 value with high demand rate according to SN 31920 5 000 failure rate [FIT] with low demand rate according to SN 50 FIT 31920 50 FIT ISO 13849 4 device type according to ISO 13849-1 3 overdimensioning according to ISO 13849-2 necessary Yes IEC 61508 5 safety device type according to IEC 61508-2 Type A T1 value 1	Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures	Yes No Yes 10 a Yes
31920 ISO 13849 device type according to ISO 13849-1 3 overdimensioning according to ISO 13849-2 necessary Yes IEC 61508 Type A T1 value Type A	Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures • with low demand rate according to SN 31920	Yes No Yes 10 a Yes 40 %
ISO 13849 device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary Yes IEC 61508 safety device type according to IEC 61508-2 T1 value	Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920	Yes No Yes 10 a Yes 40 % 50 %
device type according to ISO 13849-1 3 overdimensioning according to ISO 13849-2 necessary Yes IEC 61508 Type A T1 value Type A	Safety related data product function suitable for safety function suitability for use safety-related switching on safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN	Yes No Yes 10 a Yes 40 % 50 % 5 000
overdimensioning according to ISO 13849-2 necessary Yes IEC 61508 Type A T1 value T1 value	Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920	Yes No Yes 10 a Yes 40 % 50 % 5 000
IEC 61508 safety device type according to IEC 61508-2 T1 value	Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 ISO 13849	Yes No Yes 10 a Yes 40 % 50 % 5 000 50 FIT
safety device type according to IEC 61508-2 Type A T1 value Time A	Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 ISO 13849 device type according to ISO 13849-1	Yes No Yes 10 a Yes 40 % 50 % 5 000 50 FIT
T1 value	Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 ISO 13849 device type according to ISO 13849-1	Yes No Yes 10 a Yes 40 % 50 % 5 000 50 FIT
	Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary 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 failure rate [FIT] with low demand rate according to SN 31920 ISO 13849 device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary	Yes No Yes 10 a Yes 40 % 50 % 5 000 50 FIT
	Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 ISO 13849 device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary IEC 61508	Yes No Yes 10 a Yes 40 % 50 % 5 000 50 FIT 3 Yes
• for proof test interval or service life according to IEC 10 a 61508	Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 ISO 13849 device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary IEC 61508 safety device type according to IEC 61508-2	Yes No Yes 10 a Yes 40 % 50 % 5 000 50 FIT 3 Yes

Electrical Safety						
protection class IP on the front according to IEC 60529						
		C 60529 finge	r-safe, for vertical contact fro	om the front		
Display						
			lle			
Approvals Certificates						
General Product Appr	oval					
UK CA		CE EG-Konf.	<u>Confirmation</u>	(UL) III	KC	
General Product Approval	Test Certificates		Marine / Shipping			
EHC	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS	BUREAU VERITAS		
Marine / Shipping			other			
Lloyd's Register uts	PRS	RINA	Miscellaneous	<u>Confirmation</u>	UDE VDE	
Railway	Environment					
<u>Special Test Certific-</u> <u>ate</u>	EPD	Siemens EcoTech	Environmental Con- firmations			
Further information	kaging					
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=3RV2342-4HC10 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2342-4HC10 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RV2342-4HC10						
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2342-4HC10⟨=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2342-4HC10/char						
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2342-4HC10&objecttype=14&gridview=view1						





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