SIEMENS

Data sheet 3RV2131-4WA10



Circuit breaker size S2 for motor protection, CLASS 10 with overload relay function A-release 42...52 A N-release 741 A Standard switching capacity

product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection with overload relay function
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 	24.5 W
at AC in hot operating state per pole	8.2 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 (switching cycles)	
 of the main contacts typical 	50 000
of auxiliary contacts typical	50 000
electrical endurance (switching 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
adjustable current response value current of the current-dependent overload release	42 52 A
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	52 A
operational current	
 at AC-3 at 400 V rated value 	52 A

operating power	at AC-3e at 400 V rated value	52 A
		02 A
at 230 V rated value		
at 400 V rated value at 500 V rated value 45 kW at 500 V rated value 45 kW at 690 V rated value 45 kW at 4 AC-3e at 230 V rated value 22 kW at 400 V rated value 30 kW at 400 V rated value 45 kW at 400 V rated value 45 kW at 500 V rated value 45 kW at 500 V rated value 45 kW at 500 V rated value 45 kW at 67 smaximum 15 th 10 km -		15 kW
at 500 V rated value at 690 V rated value at 400 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 290 V rated value at		
at AC-3e at AC-3e at 230 V rated value at 400 V rated value at 400 V rated value at 400 V rated value at 500 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at 600 A maximum at AC-3e maximum Auxiliary circuit number of NO contacts for auxiliary contacts • note note number of NO contacts for auxiliary contacts • note note note note note note note at AC-3e maximum Auxiliary circuit Protective and monitoring functions product function • ground fault detection • ground fault detection • ground fault detection • phase failure detection ves trip class CLASS 10 teasing of the overload release design of the overload release design of the overload release design of the overload release design of the overload release design of the overload release design of the overload release thermal breaking capacity maximum short-circuit current (icu) at AC at 240 V rated value at AC at 400 V rated value at AC at AC 300 V rated value at AC at 500 V rated value at AC at 680 V rated value at AC at 680 V rated value at 600 V rated value at 200 V rated v		
at 230 V rated value at 400 V rated value 22 kW at 500 V rated value 30 kW at 630 V rated value 45 kW at 630 V rated value 15 l/h at 200 V rated value 15 l/h at 200 V rated value 50 kA at 240 V rated value 4 kA at 240 V rated value 4 kA at 240 V rated value 4 at 630 V rated value 5 A at 600 V rated value 5 A at 240 V rated value 5 A at 240 V rated value 6 A at 600 V rat		43 KVV
at 400 V rated value		15 kW
operating frequency		
operating frequency • at AC-3 maximum • at AC-3 maximum 15 1/h Auxillary circuit number of NC contacts for auxiliary contacts • note note • note protective and monitoring functions product function • ground fault detection • phase failure detection • protestive and monitoring functions product function • ground fault detection • protective and monitoring functions product function • ground fault detection • phase failure detection • phase failure detection • phase failure detection ves trip class design of the overload release breaking capacity maximum short-circuit current (lcu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at AC at 680 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value • at 690 V		
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■ at AC-3e maximum Auxiliary circuit number of NC contacts for auxiliary contacts ■ note ■ note ■ 1 Protective and monitoring functions product function ■ ground fault detection ■ phase failure detection ■ phase failure detection ■ thermal breaking capacity maximum short-circuit current (icu) ■ at AC at 400 V rated value ■ at AC at 500 V rated value ■ at AC at 500 V rated value ■ at AC at 500 V rated value ■ at AC at 400 V rated value ■ at AC at 500 V rated value ■ at 400 V rated value ■ at 400 V rated value ■ at 500 V rated value ■ at 600 V rated value		15 1/h
Auxillary circuit number of NC contacts for auxillary contacts • note note note • product functions • ground fault detection • product function • ground fault detection • phase failure detection trip class CLASS 10 design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 630 V rated value • at AC at 630 V rated value • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 500 V rated value • at 600 V rated value • at 480 V rated value • at 100 V rated value • at 220 V rated value • at 230 V rated value • at 230 V rated value • for single-phase AC motor — at 110/120 V rated value • for 3-phase AC motor — at 220/230 V rated value • at 220/230 V rated value — at 220/230 V rated value — at 575/600 V rated value — at 500 Vp		
number of NC contacts for auxillary contacts ● note 1 number of NO contacts for auxillary contacts ● note 1 Protective and monitoring functions product function ● ground fault detection ● phase failure detection Yes obasign of the overload release thermal breaking capacity maximum short-circuit current (icu) ● at AC at 240 V rated value ● at AC at 400 V rated value ● at AC at 500 V rated value ● at AC at 500 V rated value ● at AC at 500 V rated value ● at AC at 400 V rated value ● at AC at 500 V rated value ● at AC at 500 V rated value ● at AC at 500 V rated value ● at 400 V rated value ● at 400 V rated value ● at 400 V rated value ● at 500 V rated value ● at 600 V rated value ● at 600 V rated value ■ at 400 V rated value ■ at 400 V rated value ■ at 600 V rated value ■ at 600 V rated value ■ at 1000 V rated value ■ at 400 V rated value ■ at 200 V rated value ■ at 60480 V rated value ■ at 60480 V rated value ■ at 60480 V rated value ■ at 500 V rated value ■ at 60480 V rated value ■ at 60480 V rated value ■ at 500 V rated value ■ at 600 V rated value ■ at 600 V rated value		
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product function • ground fault detection • phase failure detection • phase failure detection • phase failure detection trip class CLASS 10 design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value • at 600 V rated value • at 600 V rated value • at 800 V rated value • at 900 V rated value • at 800 V rated value • at 900 V rated value • at 800 V rated value • at 900 V rated value • at 800 V rated value • at 900 V rated v		
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phase failure detection trip class	•	No
trip class design of the overload release breaking capacity maximum short-circuit current (Icu) e at AC at 240 V rated value e at AC at 400 V rated value e at AC at 500 V rated value e at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC e at 240 V rated value breaking capacity operating short-circuit current (Ics) at AC e at 240 V rated value 100 kA e at 400 V rated value 30 kA e at 500 V rated value e at 690 V rated value 2 kA response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor e at 480 V rated value 52 A e at 600 V rated value 52 A yielded mechanical performance [hp] e for single-phase AC motor — at 110/120 V rated value 5 bp — at 230 V rated value 5 fp — at 230 V rated value 10 hp e for 3-phase AC motor — at 200/208 V rated value 10 hp e for 3-phase AC motor — at 200/208 V rated value 9 for 3-phase AC motor — at 200/208 V rated value 9 for 3-phase AC motor — at 200/208 V rated value 9 for 3-phase AC motor — at 200/208 V rated value 9 for 3-phase AC motor — at 200/208 V rated value 9 for 3-phase AC motor — at 200/208 V rated value 9 for 3-phase AC motor — at 200/208 V rated value 9 for 3-phase AC motor — at 200/208 V rated value 9 for 3-phase AC motor — at 200/208 V rated value 9 for 3-phase AC motor — at 200/208 V rated value 9 for 3-phase AC motor — at 200/208 V rated value 9 for 3-phase AC motor — at 200/208 V rated value 9 for 3-phase AC motor 9 for		
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breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value • at 400 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value for single-phase AC motor - at 110/120 V rated value - at 230 V rated value • for 3-phase AC motor - 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 - at 575/600 V rated value - 50 hp Short-circuit protection	-	thermal
at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 690 V rated value at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC at 240 V rated value at 400 V rated value at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit 1 UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value st 600 V rated value st 600 V rated value for single-phase AC motor — at 110/120 V rated value for single-phase AC motor — at 230 V rated value for 3-phase AC motor — at 200/208 V rated value for 3-phase AC motor — at 200/208 V rated value for 3-phase AC motor — at 200/208 V rated value at 460/480 V rated value at 575/600 V rated value 50 hp Short-circuit protection		
at AC at 500 V rated value at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC		100 kA
• at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 100/120 V rated value - at 110/120 V rated value • for single-phase AC motor — at 110/120 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/230 V rated value — at 200/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value 50 hp Short-circuit protection	at AC at 400 V rated value	65 kA
breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value standard full-load current (FLA) for 3-phase AC motor • at 480 V rated value standard full-load surrent (FLA) for 3-phase AC motor • at 480 V rated value standard full-load current (FLA) for 3-phase AC motor • at 200 V rated value for single-phase AC motor - at 110/120 V rated value for 3-phase AC motor - at 200/208 V rated value • for 3-phase AC motor - 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	 at AC at 500 V rated value 	8 kA
at AC • at 240 V rated value • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • for single-phase AC motor — at 110/120 V rated value • for single-phase AC motor — 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 — at 575/600 V rated value 50 hp Short-circuit protection	 at AC at 690 V rated value 	4 kA
at AC at 240 V rated value at 400 V rated value at 500 V rated value at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value for single-phase AC motor at 100 V rated value at 100 V rated value for single-phase AC motor at 110/120 V rated value for 3-phase AC motor at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 200/208 V rated value at 460/480 V rated value at 460/480 V rated value at 50 hp Short-circuit protection	breaking capacity operating short-circuit current (Ics)	
 at 400 V rated value at 500 V rated value at 690 V rated value 2 kA response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value for single-phase AC motor at 110/120 V rated value for 3-phase AC motor at 230 V rated value for 3-phase AC motor at 200/208 V rated value for 3-phase AC motor at 200/208 V rated value pat 200/208 V rated value at 260/480 V rated value at 375/600 V rated value bp Short-circuit protection 		
at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value for single-phase AC motor - at 110/120 V rated value for 3-phase AC motor - 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	 at 240 V rated value 	100 kA
at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 52 A at 600 V rated value 55 A yielded mechanical performance [hp] for single-phase AC motor - at 110/120 V rated value 5 hp - at 230 V rated value 5 for 3-phase AC motor - 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	 at 400 V rated value 	30 kA
response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value for single-phase AC motor - at 110/120 V rated value • for 3-phase AC motor - 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	 at 500 V rated value 	4 kA
unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 52 A • at 600 V rated value 52 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 — at 200/208 V rated value 15 hp — at 200/208 V rated value 20 hp — at 460/480 V rated value 40 hp — at 575/600 V rated value 50 hp Short-circuit protection	at 690 V rated value	
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 52 A 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 52 A 54 P 55 A 56 P 57 P 58 P 59 P 50 P		741 A
 at 480 V rated value at 600 V rated value 52 A 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 50 hp Short-circuit protection	UL/CSA ratings	
● 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 5 hp 10 hp 15 hp 20 hp 40 hp 50 hp	full-load current (FLA) for 3-phase AC motor	
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 — 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	• at 480 V rated value	52 A
 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 — 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 	at 600 V rated value	52 A
 — 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 5 hp 40 hp 50 hp Short-circuit protection		
 — 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 	 for single-phase AC motor 	
● for 3-phase AC motor — 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	 at 110/120 V rated value 	5 hp
— 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	— at 230 V rated value	10 hp
- at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value Short-circuit protection 20 hp 40 hp 50 hp	 for 3-phase AC motor 	
 — at 460/480 V rated value — at 575/600 V rated value Short-circuit protection 	— at 200/208 V rated value	
— at 575/600 V rated value 50 hp Short-circuit protection		
Short-circuit protection		
		50 hp
nyaduat function about aircuit nyatestion	Short-circuit protection	
	product function short circuit protection	Yes
design of the short-circuit trip magnetic		magnetic
design of the fuse link for IT network for short-circuit protection of the main circuit		
• at 240 V none required	● at 240 V	
• at 400 V 160	● at 400 V	160
• at 500 V 125	• at 500 V	125

● at 690 V	100
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	140 mm
width	75 mm
depth	149 mm
required spacing	
 with side-by-side mounting at the side 	0 mm
 for grounded parts at 400 V 	
— 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	50 mm
— downwards	50 mm
— upwards — at the side	50 mm 10 mm
	10 mm
for grounded parts at 690 V— downwards	50 mm
	50 mm
— upwards — backwards	0 mm
— at the side	10 mm
— forwards	0 mm
• for live parts at 690 V	O THIN
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	10 mm
— forwards	0 mm
Connections/ Terminals	•
type of electrical connection	
• for main current circuit	screw-type terminals
for auxiliary and control circuit	screw-type terminals
arrangement of electrical connectors for main current	Top and bottom
circuit	,
type of connectable conductor cross-sections	
• for main contacts	
— solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)
 finely stranded with core end processing 	2x (1 25 mm²), 1x (1 35 mm²)
at AWG cables for main contacts	2x (18 2), 1x (18 1)
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
size of the screwdriver tip	Pozidriv size 2
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 according to SN 31920 	5 000

proportion of dangerous failures	
 with low demand rate according to SN 31920 	50 %
 with high demand rate according to SN 31920 	50 %
failure rate [FIT]	
 with low demand rate according to SN 31920 	50 FIT
T1 value for proof test interval or service life according to IEC 61508	10 y
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
display version for switching status	Handle

Certificates/ approvals

General Product Approval



Confirmation





<u>KC</u>



Declaration of Conformity

Test Certificates

Marine / Shipping





Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report





Marine / Shipping











Confirmation

other

other

Railway



Confirmation

Vibration and Shock

Further information

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=3RV2131-4WA10

Cax online generator

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2131-4WA10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

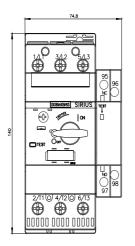
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2131-4WA10&lang=en

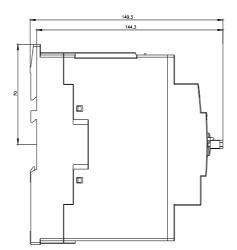
Characteristic: Tripping characteristics, I2t, Let-through current

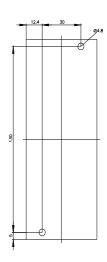
https://support.industry.siemens.com/cs/ww/en/ps/3RV2131-4WA10/char

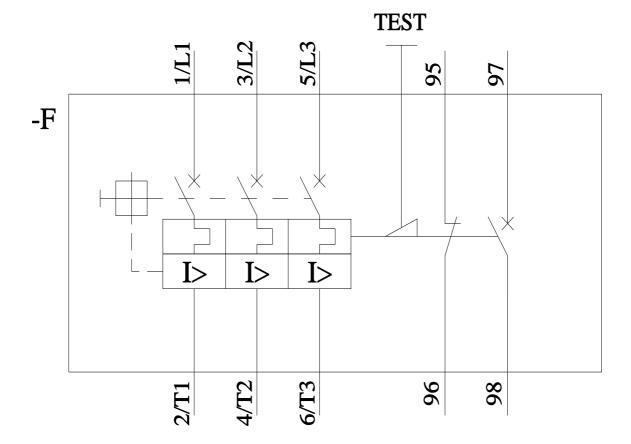
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2131-4WA10&objecttype=14&gridview=view1









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