SIEMENS

Data sheet 3RV2031-4PB10



Circuit breaker size S2 for motor protection, Class 20 A-release 28...36 A N-release 520 A screw terminal Standard switching capacity

product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
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 	20 W
at AC in hot operating state per pole	6.7 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation in networks with grounded star point	
 between main and auxiliary circuit 	400 V
between main and auxiliary circuit	400 V
shock resistance acc. 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 acc. to IEC 81346-2	Q
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
 ambient temperature during operation 	-20 +60 °C
 ambient temperature during storage 	-50 +80 °C
 ambient temperature during transport 	-50 +80 °C
temperature compensation	-20 +60 °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	28 36 A
operating voltage rated value	690 V
 operating voltage at AC-3 rated value maximum 	690 V
operating frequency rated value	50 60 Hz

Operating power at AC-3 at 400 V rated value		00.4
operating power at AC-3 • at 400 V rated value • at 500 V V rated value • at 500 V rated value • at 600 V rated value • at 600 V rated value operating frequency at AC-3 maximum 15 f /h Protective and monitoring functions product function • phase failure detection • practice for phase failure detection • product function • phase failure detection • phase failure detection • product function • phase failure detection • product function • phase failure detection • product function • phase failure detection • yes trip class Class 20 thermal 100 kA 31 AC 41 400 V rated value • at 400 V rated value • at 680 V rated value • at 680 V rated value • at AC at 440 V rated value • at AC at 440 V rated value • at AC at 440 V rated value • at AC at 480 V rated value • at AC at 580 V rated value • at AC at 680 V rated value • at 580 V ra	operational current rated value	36 A
15 00 W 15 0	_ '	30 A
eat 650 V rated value		40 500 144
e at 690 V rated value protective and monitoring finetions product function product function product function product function phase failure detection phase failure detection phase failure detection ves design of the overload release breaking capacity operating short-circuit current (ics) at AC et 240 V rated value at 500 V rated value at 600 V rated value 2 kA breaking capacity maximum short-circuit current (icu) et AC at 240 V rated value at 500 V rated value breaking capacity maximum short-circuit current (icu) et AC at 240 V rated value at 600 V rated value breaking capacity maximum short-circuit current (icu) et AC at 260 V rated value at AC at 600 V rated value breaking capacity maximum short-circuit current (icu) et AC at 600 V rated value at AC at 600 V rated value at AC at 600 V rated value breaking capacity maximum short-circuit frip and at 400 V at 600 V rated value		
peraling frequency at AC-3 maximum Protective and monitoring functions product function • ground fault detection • practice fault detection • practice fault detection • practice fault detection • practice fault detection ves design of the overload release Dreaking capacity maximum short-circuit current (Ics) at AC • at 240 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 670 V rated value • at AC at 400 V rated value • at AC at 240 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 890 V rated value • at AC at 390 V rated value • at AC at 390 V rated value • at AB O v rated value • at AB O v rated value • at 480 V rated value • at 800 V rated value • at 1800 V rated value • at 200 V rated value • at 300 V rated value • at 300 V rated value • at 300 V rated value • at 400 V rated value • at 300 V rated value • at 3		
Protective and monitoring functions product function		
product function		15 1/h
eground fault detection		
• phase failure detection	•	
Class 20	_	
design of the overload release 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 500 V rated value at 500 V rated value breaking capacity maximum short-circuit current (icu) at AC at 240 V rated value at AC at 240 V rated value at AC at 240 V rated value at AC at 3500 V rated value at AC at 400 V rated value at AC at 4500 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 AC at 690 V rated value at AC at 690 V rated value at AC at 400 V rated value at AC at 400 V rated value at AC at 400 V rated value at AC at 4500 V rated value at 480 V rated value 36 A 36 A 36 A 37 A 38 A 38 A 39	·	
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at AC at 240 V rated value 30 kA at 500 V rated value 5 kA at 500 V rated value 5 kA at 800 V rated value 2 kA breaking capacity maximum short-circuit current (Icu) at AC at 240 V rated value 65 kA at AC at 240 V rated value 65 kA at AC at 4500 V rated value 10 kA at AC at 5500 V rated value 4 kA eat AC at 5500 V rated value 4 kA response value current of instantaneous short-circuit trip unit unit UUCSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 36 A at 660 V rated value 36 A at 660 V rated value 36 A yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value 7.5 hp for 3-phase AC motor at 230 V rated value 15 hp at 220/230 V rated value 15 hp at 220/230 V rated value 30 hp at 220/230 V rated value 40 hp Short-circuit protection product function short circuit protection design of the short-circuit trip design of the short-circuit trip design of the sign k for iT network for short-circuit protection of the main circuit at 240 V at 400 V at 500 V at 5		thermal
• at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 800 V rated value • at AC at 240 V rated value • 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 500 V rated value • at AC at 500 V rated value • at AC at 690 V rated value response value current of instantaneous short-circuit trip unit **DUCSA ratings** full-load current (FLA) for 3-phase AC motor • 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 • for 3-phase AC motor — at 220 V rated value • for 3-phase AC motor — at 220/220 V rated value • for 3-phase AC motor — at 200/220 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 200/200 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 • 15 hp at 460/480 V rated value • 15 hp at 460/480 V rated value • 40 hp 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 690 V • a		
■ at 500 V rated value ■ at 690 V rated value ■ at 690 V rated value ■ at 690 V rated value ■ at AC at 240 V rated value ■ at AC at 400 V rated value ■ at AC at 500 V rated value ■ at AC at 600 V rated value ■ at AC at 600 V rated value ■ at AC at 600 V rated value ■ at 10/120 V rated value ■ at 10/120 V rated value □ at 110/120 V rated value □ at 230 V rated value □ at 230 V rated value □ at 200/208 V rated value □ at 200/208 V rated value □ at 400/480 V rated value □ at 575/600 V rated value □ at 400 V □ at 500 V □ at 500 V □ at 690 V Installation mounting / dimensions mounting position any sate and sa	at 240 V rated value	100 kA
• at 690 V rated value 2 kA	at 400 V rated value	30 kA
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 5600 V rated value be at AC at 5600 V rated value at AC at 5600 V rated value built **Tesponse value current of instantaneous short-circuit trip unit **UL/CSA ratings **Tull-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value af 600 V rated value at 300 V rated value **Tesponse AC motor		5 kA
• 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 690 V rated value • at AC at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings Tull-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 36 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 • for 3-phase AC motor — at 200/208 V rated value • at 200/208 V rated value — at 200/208 V rated value — at 200/208 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value	at 690 V rated value	2 kA
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 response value current of instantaneous short-circuit trip unit response value current of instantaneous short-circuit trip unit IL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 36 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value 3 h p at 230 V rated value 4 230 V rated value 5 for 3-phase AC motor at 2300 V rated value 4 22030 V rated value 5 for 3-phase AC motor at 2002208 V rated value 5 fbp at 460/480 V rated value 4 0 hp Short-circuit protection product function short circuit protection design of the short-circuit trip design of the short-circuit trip design of the main circuit at 240 V at 400 V at 400 V at 500 V at 500 V at 690 V Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 tequired spacing for grounded parts at 400 V	breaking capacity maximum short-circuit current (Icu)	
at AC at 500 V rated value at AC at 600 V rated value tesponse value current of instantaneous short-circuit trip unit bulcSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 7.5 hp for single-phase AC motor at 101/120 V rated value at 220 V rated value at 220/230 V rated value at 220/230 V rated value at 220/230 V rated value at 460/480 V rated value at 55/600 V rated value bulcated value at 575/600 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 250/230 V rated value at 500 V rated value at 600 V rated value at 400 V rated value at 500 V rated value at 400 V rated value at 400 V rated value at 500 V rated value at 400 V rated val	 at AC at 240 V rated value 	100 kA
e at AC 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 36 A 36 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 3 hp — at 230 V rated value 5 for 3-phase AC motor — at 200/280 V rated value 15 hp — at 220/280 V rated value 3 np — at 460/480 V rated value 3 np — at 450/5600 V rated value 3 np Short-circuit protection product function short circuit trip 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 none required • at 800 V installation/ mounting/ dimensions mounting position fastening method • for grounded parts at 400 V	 at AC at 400 V rated value 	65 kA
response value current of instantaneous short-circuit trip unit UL/CSA ratings	 at AC at 500 V rated value 	10 kA
unit UL/GSA ratings full-load current (FLA) for 3-phase AC motor	at AC at 690 V rated value	4 kA
full-load current (FLA) for 3-phase AC motor at 480 V rated value 36 A at 800 V rated value 36 A yielded mechanical performance [hp] for single-phase AC motor — at 210 V rated value 3 hp — at 230 V rated value 7.5 hp • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value 15 hp — at 450/480 V rated value 30 hp — at 450/480 V rated value 40 hp Short-circuit protection Yes design of the 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 125 • at 400 V 125 • at 500 V 80 Installation/ mounting/ dimensions 80 Installation/ mounting/ dimensions any fastening method acrew and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 height 140 mm width 55 mm depth required spacing • for grounded parts at 400 V	·	520 A
	UL/CSA ratings	
	full-load current (FLA) for 3-phase AC motor	
yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 7.5 hp • for 3-phase AC motor — at 200/208 V rated value 15 hp — at 220/230 V rated value 15 hp — at 220/230 V rated value 30 hp — at 4460/480 V rated value 40 hp 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 690 V • at 690 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method e for grounded parts at 400 V required spacing • for grounded parts at 400 V		36 A
• for single-phase AC motor — at 110/120 V rated value — at 230 V rated value 5 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 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — by the short-circuit protection product function short circuit protection design of the short-circuit trip — at 240 V — at 400 V — at 400 V — at 500 V — at 690 V Installation/ mounting/ dimensions mounting position fastening method Some continued on the standard mounting rail according to DIN EN 60715 height How mounting of grounded parts at 400 V required spacing For grounded parts at 400 V	at 600 V rated value	36 A
• for single-phase AC motor — at 110/120 V rated value — at 230 V rated value 5 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 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — by the short-circuit protection product function short circuit protection design of the short-circuit trip — at 240 V — at 400 V — at 400 V — at 500 V — at 690 V Installation/ mounting/ dimensions mounting position fastening method Some continued on the standard mounting rail according to DIN EN 60715 height How mounting of grounded parts at 400 V required spacing For grounded parts at 400 V	yielded mechanical performance [hp]	
- at 110/120 V rated value 7.5 hp - at 230 V rated value 7.5 hp • for 3-phase AC motor - at 220/230 V rated value 15 hp - at 220/230 V rated value 15 hp - at 460/480 V rated value 30 hp - at 575/600 V rated value 40 hp Short-circuit protection product function short circuit protection 4esign of the short-circuit trip and design of the short-circuit trip 4esign of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V		
- 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 - at 575/600 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 Normal of the short of the s		3 hp
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 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 500 V • at 500 V • at 690 V • at 690 V 80 Installation/ mounting/ dimensions mounting position fastening method	— at 230 V rated value	
- at 220/230 V rated value	• for 3-phase AC motor	
- at 220/230 V rated value	— at 200/208 V rated value	15 hp
- at 460/480 V rated value 30 hp - at 575/600 V rated value 40 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 240 V none required • at 400 V 125 • at 500 V 100 • at 690 V 80 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 55 mm depth 149 mm required spacing • for grounded parts at 400 V	— at 220/230 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 screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 height vidth depth 140 mm required spacing • for grounded parts at 400 V	— at 460/480 V rated value	·
Short-circuit protection product function short circuit protection design of the short-circuit trip magnetic 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 screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 height width depth required spacing • for grounded parts at 400 V	— at 575/600 V rated value	·
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 any fastening method any fastening method any fastening method any fall mm width beight 40 mm fequired spacing • for grounded parts at 400 V	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 any fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 height width depth required spacing • for grounded parts at 400 V		Yes
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 any fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 height the ight th		
 at 240 V at 400 V at 500 V at 690 V 80 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 height udd mm width 55 mm depth required spacing for grounded parts at 400 V 	design of the fuse link for IT network for short-circuit	
 at 400 V at 500 V at 690 V 80 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 55 mm depth required spacing for grounded parts at 400 V 	•	none required
 at 500 V at 690 V 80 Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 height theight width 55 mm depth required spacing for grounded parts at 400 V 		
● at 690 V Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 height 140 mm width 55 mm depth 149 mm required spacing ● for grounded parts at 400 V		
Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 height 140 mm width 55 mm depth 149 mm required spacing • for grounded parts at 400 V		
mounting position fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 height 140 mm width 55 mm depth 149 mm required spacing • for grounded parts at 400 V		00
fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 height 140 mm width 55 mm depth required spacing • for grounded parts at 400 V		ODV
according to DİN EN 60715 height 140 mm width 55 mm depth 149 mm required spacing • for grounded parts at 400 V		•
width 55 mm depth 149 mm required spacing • for grounded parts at 400 V		according to DIN EN 60715
depth 149 mm required spacing ● for grounded parts at 400 V	-	
required spacing ● for grounded parts at 400 V		
• for grounded parts at 400 V	•	149 mm
deursuande		
	— downwards	50 mm
— upwards 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
— downwards	50 mm
— upwards	50 mm
— at the side	10 mm
• for grounded parts at 690 V	50
— downwards	50 mm
— upwards — backwards	50 mm
	0 mm
— at the side — forwards	10 mm
• for live parts at 690 V	0 mm
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	10 mm
— forwards	0 mm
Connections/ Terminals	
product function removable terminal for auxiliary and	No
control circuit	
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 	
— solid or stranded	2x (1 25 mm²), 1x (1 35 mm²)
 finely stranded with core end processing 	2x (1 16 mm²), 1x (1 25 mm²)
at AWG cables for main contacts	2x (18 3), 1x (18 2)
 tightening torque for main contacts with screw-type terminals 	3 4.5 N·m
design of screwdriver shaft	Diameter 5 to 6 mm
size of the screwdriver tip	Pozidriv 2
design of the thread of the connection screw	
for main contacts	M6
Safety related data	
B10 value	
with high demand rate acc. to SN 31920	5 000
proportion of dangerous failures	
 with low demand rate acc. to SN 31920 	50 %
with high demand rate acc. to SN 31920	50 %
failure rate [FIT]	
with low demand rate acc. to SN 31920	50 FIT
T1 value for proof test interval or service life acc. to IEC 61508	10 y
protection class IP on the front acc. to IEC 60529	IP20
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front
display version for switching status	Handle
Certificates/ approvals	
General Product Approval	

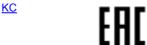












Declaration of Conformity

Test Certificates



Miscellaneous

Type Test Certificates/Test Report Type Test
Certificates/Test
Report

Type Test
Certificates/Test
Report

Type Test
Certificates/Test
Report

Test Certificates

Marine / Shipping

Special Test Certificate











Marine / Shipping

other

Railway





Confirmation



Vibration and Shock

Confirmation

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=3RV2031-4PB10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2031-4PB10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4PB10

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2031-4PB10&lang=en

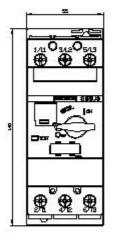
Characteristic: Tripping characteristics, I2t, Let-through current

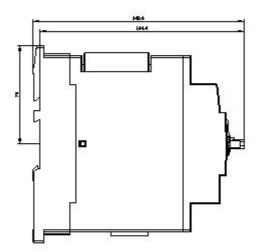
https://support.industry.siemens.com/cs/ww/en/ps/3RV2031-4PB10/char

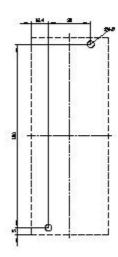
Further characteristics (e.g. electrical endurance, switching frequency)

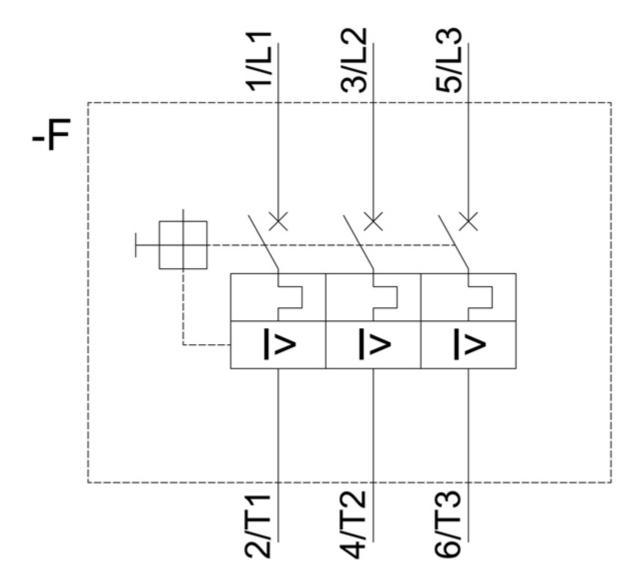
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2031-4PB10&objecttype=14&gridview=view1











last modified: 12/15/2020 ☑