SIEMENS

Data sheet 3RV2011-1BA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 1.4...2 A N-release 26 A screw terminal Standard switching capacity

SIRIUS
Circuit breaker
For motor protection
3RV2
\$00
S00, S0
Yes
7.25 W
2.4 W
690 V
6 kV
400 V
400 V
25g / 11 ms
100 000
100 000
100 000
Ex II (2) GD
DMT 02 ATEX F 001
Q
2 000 m
-20 +60 °C
-50 +80 °C
-50 +80 °C
-20 +60 °C
10 95 %
3
1.4 2 A

current-dependent overload release	
 operating voltage rated value 	690 V
 operating voltage at AC-3 rated value maximum 	690 V
operating frequency rated value	50 60 Hz
operational current rated value	2 A
operational current at AC-3 at 400 V rated value	2 A
operating power at AC-3	
at 230 V rated value	370 W
at 400 V rated value	750 W
at 500 V rated value	750 W
at 690 V rated value	1 100 W
operating frequency at AC-3 maximum	15 1/h
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
Protective and monitoring functions	
-	
product function	Na
ground fault detection	No Yea
phase failure detection	Yes
trip class	CLASS 10
design of the overload release	thermal
breaking capacity operating short-circuit current (lcs) at AC	
at 240 V rated value	100 kA
at 400 V rated value	100 kA
at 500 V rated value	100 kA
at 690 V rated value	10 kA
breaking capacity maximum short-circuit current (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	100 kA
 at AC at 690 V rated value 	10 kA
response value current of instantaneous short-circuit trip unit	26 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	2 A
at 600 V rated value	2 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 230 V rated value	0.125 hp
• for 3-phase AC motor	
— at 460/480 V rated value	0.75 hp
— at 575/600 V rated value	1 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 400 V	gL/gG 25 A
● at 500 V	gL/gG 25 A
• at 690 V	gL/gG 20 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail
	according to 1 IIN EN 60 / 15
height	according to DIN EN 60715 97 mm

45 mm 45 m		45 mm
For grounded parts at 400 V		
• for grounded parts at 400 V	ed spacing	
downwards upwards at the side for live parts at 400 V downwards upwards at the side for grounded parts at 500 V downwards upwards upwards upwards at the side for live parts at 500 V downwards at the side for live parts at 500 V downwards at the side for grounded parts at 690 V downwards at the side for grounded parts at 690 V downwards upwards the side forwards upwards the side forwards upwards the side forwards the side forwards upwards upwards the side forwards upwards upwards the side forwards upwards the side forman the side forwards upwards the side forman the side forwards upwards the side forwards upwards the side forman the side forman the side forman the side forman the side forwards the side forman the sid		
■ to for live parts at 40 0 V ─ downwards — upwards — at the side ● for grounded parts at 500 V — downwards — upwards — upwards — at the side ● for five parts at 500 V — downwards — upwards — at the side ● for live parts at 500 V — downwards — upwards — of or grounded parts at 690 V — downwards — upwards — of ror grounded parts at 690 V — downwards — upwards — backwards — upwards — or live parts at 690 V — downwards — or live parts at 690 V — downwards — or live parts at 690 V — downwards — or live parts at 690 V — downwards — or live parts at 690 V — downwards — or live parts at 690 V — downwards — or live parts at 690 V — downwards — or live parts at 690 V — downwards — or live parts at 690 V — downwards — or live parts at 690 V — downwards — or live parts at 690 V — downwards — or live parts at 690 V — or live part		30 mm
• for live parts at 40 0 V - downwards - upwards - at the side • for grounded parts at 500 V - downwards - upwards - at the side • for grounded parts at 500 V - downwards - at the side • for live parts at 500 V - downwards - upwards - of live parts at 500 V - downwards - upwards - upwards - upwards - at the side • for grounded parts at 590 V - downwards - upwards - at the side • for grounded parts at 690 V - downwards - upwards - backwards - upwards - or live parts at 690 V - downwards - or live parts at 690 V	— upwards	30 mm
- downwards - upwards - at the side • for grounded parts at 500 V - downwards - upwards - at the side 9 mm • for live parts at 500 V - downwards 30 mm - upwards - at the side • for grounded parts at 500 V - downwards 30 mm - at the side • for grounded parts at 690 V - downwards - at the side • for grounded parts at 690 V - downwards - upwards - the side • for grounded parts at 690 V - downwards - upwards - backwards - at the side - for live parts at 690 V - downwards - of live parts at 690 V - downwards - at the side - for live parts at 690 V - downwards - for live parts at 690 V - downwards - for live parts at 690 V - downwards - to mm - forwards - for live parts at 690 V - downwards - prowards - for main cornection - for main current circuit type of electrical connection - for main current circuit type of connectable conductor cross-sections - for main contacts - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - slightening torque for main contacts - slightening torque for main contacts with screw-type terminals design of screwdriver shaft - Diameter 5 to 6 mm - pozidriv 2 design of the thread of the connection screw	·	9 mm
- downwards - upwards - at the side • for grounded parts at 500 V - downwards - upwards - at the side 9 mm • for live parts at 500 V - downwards 30 mm - upwards - at the side • for grounded parts at 500 V - downwards 30 mm - at the side • for grounded parts at 690 V - downwards - at the side • for grounded parts at 690 V - downwards - upwards - the side • for grounded parts at 690 V - downwards - upwards - backwards - at the side - for live parts at 690 V - downwards - of live parts at 690 V - downwards - at the side - for live parts at 690 V - downwards - for live parts at 690 V - downwards - for live parts at 690 V - downwards - to mm - forwards - for live parts at 690 V - downwards - prowards - for main cornection - for main current circuit type of electrical connection - for main current circuit type of connectable conductor cross-sections - for main contacts - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - slightening torque for main contacts - slightening torque for main contacts with screw-type terminals design of screwdriver shaft - Diameter 5 to 6 mm - pozidriv 2 design of the thread of the connection screw	or live parts at 400 V	
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of or grounded parts at 500 V — downwards	— upwards	30 mm
- downwards - upwards - at the side • for live parts at 500 V - downwards - upwards - at the side • for grounded parts at 690 V - downwards - upwards - at the side • for grounded parts at 690 V - downwards - upwards - backwards - upwards - backwards - the side - forwards - of live parts at 690 V - downwards - the side - forwards - of live parts at 690 V - downwards - of live parts at 690 V - downwards - of live parts at 690 V - downwards - of main contacts - solid or stranded - for main contacts - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - tightening torque for main contacts - tightening torque for main contacts with screw-type terminals - design of screwdriver shaft - size of the screwdriver tip - design of strewdriver shaft - size of the screwdriver tip - design of strewdriver shaft - size of the screwdriver as free for main contacts screw-type design of strewdriver tip - design of the thread of the connection screw	— at the side	9 mm
- downwards - upwards - at the side • for live parts at 500 V - downwards - upwards - at the side • for grounded parts at 690 V - downwards - at the side • for grounded parts at 690 V - downwards - upwards - upwards - backwards - upwards - backwards - at the side - forwards - or live parts at 690 V - downwards - of live parts at 690 V - downwards - or live parts at 690 V - downwards - or live parts at 690 V - downwards - or live parts at 690 V - downwards - or live parts at 690 V - downwards - upwards - backwards - upwards - backwards - at the side - forwards - or mm - or main current circuit - forwards - or main current circuit - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - solid or stranded - strander or main contacts - solid or stranded - strander or main contacts - solid or stranded - strander or main contacts - solid or stranded - strander or main contacts - solid or stranded - strander or main contacts - solid or stranded - strander or main contacts - solid or stranded - strander or main contacts - solid or stranded - strander or main contacts - solid or stranded - strander or main contacts - solid or stranded - strander or main contacts - solid or stranded - strander or main contacts - solid or strander -	or grounded parts at 500 V	
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of for live parts at 500 V — downwards	— upwards	30 mm
- downwards - upwards - at the side • for grounded parts at 690 V - downwards - upwards - backwards - at the side - for rowards - backwards - at the side - for live parts at 690 V - downwards - for live parts at 690 V - downwards - backwards - upwards - for live parts at 690 V - downwards - backwards - upwards - backwards - upwards - backwards - upwards - backwards - o mm - the side - forwards - o mm - the side - forwards - o mm - torrowards - for main current circuit - for main current circuit - sorew-type terminals - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - 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	— at the side	9 mm
- downwards - upwards - at the side • for grounded parts at 690 V - downwards - upwards - backwards - at the side - for rowards - backwards - at the side - for live parts at 690 V - downwards - for live parts at 690 V - downwards - backwards - upwards - for live parts at 690 V - downwards - backwards - upwards - backwards - upwards - backwards - upwards - backwards - o mm - the side - forwards - o mm - the side - forwards - o mm - torrowards - for main current circuit - for main current circuit - sorew-type terminals - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - 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	or live parts at 500 V	
- at the side • for grounded parts at 690 V - downwards - upwards - backwards - at the side - forwards - forwards - for live parts at 690 V - downwards - upwards - of live parts at 690 V - downwards - upwards - upwards - upwards - backwards - upwards - backwards - of mm - backwards - of mm - forwards - of mm - forwards - of mm - forwards - of main current circuit - for main current circuit - screw-type terminals - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts with screw-type terminals - tightening torque for main contacts with screw-type terminals - for grounded the connection of the screwdriver shaft - size of the screwdriver shaft - for gound for the thread of the connection screw - for grounded for gound		30 mm
• for grounded parts at 690 V - downwards - upwards - backwards - at the side - forwards - for live parts at 690 V - downwards - upwards - for live parts at 690 V - downwards - backwards - upwards - backwards - at the side - backwards - at the side - forwards - o mm - backwards - at the side - forwards - o mm - forwards - for main current circuit - for main current circuit - 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	— upwards	30 mm
- downwards - upwards - upwards - backwards - at the side - forwards - for live parts at 690 V - downwards - upwards - upwards - upwards - backwards - upwards - backwards - upwards - backwards - at the side - forwards - o mm Connections/ Terminals product function removable terminal for auxiliary and control circuit type of electrical connection - for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections - for main contacts - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw	·	9 mm
- downwards - upwards - backwards - at the side - forwards - for live parts at 690 V - downwards - upwards - upwards - upwards - upwards - backwards - upwards - backwards - at the side - forwards - o mm - backwards - at the side - forwards - o mm - forwards - o mm - forwards - o mm Connections/ Terminals product function removable terminal for auxiliary and control circuit type of electrical connection - for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections - for main contacts - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts with screw-type terminals design of screwdriver shaft Diameter 5 to 6 mm size of the screwdriver tip design of the thread of the connection screw	or grounded parts at 690 V	
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- forwards • for live parts at 690 V - downwards - upwards - backwards - at the side - forwards O mm Connections/ Terminals product function removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw 50 mm No No No No 2 x (0,75 2,5 mm²), 2x 4 mm² 2 x (0,75 2,5 mm²), 2x 4 mm² 2 x (18 14), 2x 12 0 8 1.2 N·m size of the screwdriver tip Pozidriv 2	— backwards	0 mm
• for live parts at 690 V — downwards — upwards 50 mm 50 mm — backwards — at the side — forwards — o mm Terminals product function removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — 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 50 mm No No No 20 mm No 20 mm 20 crew-type terminals 20 at (0,75 2,5 mm²), 2x 4 mm² 20 at (1,5 1,5 mm²), 2x (0,75 2,5 mm²) 20 at (1,5 1,5 mm²), 2x (0,75 2,5 mm²) 20 at (1,5 1,5 mm²), 2x (1,75 2,5 mm²) 20 at (1,5 1,5 mm²), 2x (1,75 2,5 mm²) 21 at (1,5 1,5 mm²), 2x (1,75 2,5 mm²) 22 at (1,5 1,5 mm²), 2x (1,75 2,5 mm²) 23 at (1,5 1,5 mm²), 2x (1,75 2,5 mm²) 24 at (1,5 1,5 mm²), 2x (1,5 1,5 mm²) 25 at (1,5 1,5 mm²), 2x (1,5 1,5 mm²) 26 at (1,5 1,5 mm²), 2x (1,5 1,5 mm²) 27 at (1,5 1,5 mm²), 2x (1,5 1,5 mm²) 28 at (1,5 1,5 mm²), 2x (1,5 1,5 mm²) 29 at (1,5 1,5 mm²), 2x (1,5 1,5 mm²) 20 at (1,5 1,5 mm²), 2x (1,5 1,5 mm²) 20 at (1,5 1,5 mm²), 2x (1,5 1,5 mm²) 20 at (1,5 1,5 mm²), 2x (1,5 1,5 mm²) 21 at (1,5 1,5 mm²), 2x (1,5 1,5 mm²) 22 at (1,5 1,5 mm²), 2x (1,5 1,5 mm²) 23 at (1,5 1,5 mm²), 2x (1,5 1,5 mm²) 24 at (1,5 1,5 mm²), 2x (1,5 1,5 mm²) 25 at (1,5 1,5 mm²), 2x (1,5 1,5 mm²) 26 at (1,5 1,5 mm²), 2x (1,5 1,5 mm²) 27 at (1,5 1,5 mm²), 2x (1,5 1,5 mm²) 28 at (1,5 1,5 mm²), 2x (1,5 1,5 mm²) 29 at (1,5 1,5 mm²), 2x (1,5 1,5 mm²) 20 at (1,5 1,5 mm²), 2x (1,5 1,5 mm²) 21 at (1,5 1,5 mm²), 2x (1,5 1,5 mm²) 22	— at the side	30 mm
- downwards - upwards - upwards - backwards - at the side - forwards Connections/ Terminals product function removable terminal for auxiliary and control circuit type of electrical connection	— forwards	0 mm
- upwards - backwards - at the side - forwards Connections/ Terminals product function removable terminal for auxiliary and control circuit type of electrical connection	or live parts at 690 V	
- backwards - at the side - forwards Connections/ Terminals product function removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts - 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	— downwards	50 mm
at the side forwards Connections/ Terminals product function removable terminal for auxiliary and control circuit type of electrical connection	— upwards	50 mm
	— backwards	0 mm
product function removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — 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 product function removable terminal for auxiliary and contents screw-type terminals Top and bottom 2x (0,75 2,5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12 • tightening torque for main contacts with screw-type terminals design of screwdriver shaft Diameter 5 to 6 mm Pozidriv 2	— at the side	30 mm
product function removable terminal for auxiliary and control circuit type of electrical connection	— forwards	0 mm
product function removable terminal for auxiliary and control circuit type of electrical connection	tions/ Terminals	
type of electrical connection		No
 for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts 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 Diameter 5 to 6 mm Pozidriv 2 		
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — 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 Diameter 5 to 6 mm Pozidriv 2 Diameter 5 to 6 mm	electrical connection	
type of connectable conductor cross-sections • for main contacts — 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 2x (0,75 2,5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (18 14), 2x 12 0.8 1.2 N·m Pozidriv 2	or main current circuit	screw-type terminals
 for main contacts 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 biameter 5 to 6 mm pozidriv 2 design of the thread of the connection screw 		Top and bottom
 for main contacts 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 biameter 5 to 6 mm pozidriv 2 design of the thread of the connection screw 		
 — 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 Diameter 5 to 6 mm size of the screwdriver tip Pozidriv 2 design of the thread of the connection screw 		
 — 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 Diameter 5 to 6 mm size of the screwdriver tip Pozidriv 2 design of the thread of the connection screw 	— solid or stranded	2x (0,75 2,5 mm²), 2x 4 mm²
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 tightening torque for main contacts with screw-type terminals design of screwdriver shaft biameter 5 to 6 mm size of the screwdriver tip design of the thread of the connection screw 		
design of screwdriver shaft Diameter 5 to 6 mm size of the screwdriver tip Pozidriv 2 design of the thread of the connection screw	ightening torque for main contacts with screw-type	
size of the screwdriver tip design of the thread of the connection screw		Diameter 5 to 6 mm
design of the thread of the connection screw		
	-	
		M3
Safety related data		
B10 value		
with high demand rate acc. to SN 31920 5 000		5,000
proportion of dangerous failures		0 000
with low demand rate acc. to SN 31920 50 %	-	50 %
• with high demand rate acc. to SN 31920 50 %		
failure rate [FIT]	-	00 /0
with low demand rate acc. to SN 31920 50 FIT		50 FIT
T1 value for proof test interval or service life acc. to 10 y		
IEC 61508		i v

protection class IP on the front acc. to IEC 60529

touch protection on the front acc. to IEC 60529

display version for switching status

IP20

finger-safe, for vertical contact from the front

Handle

Certificates/ approvals

General Product Approval

For use in hazardous locations













Declaration of Conformity

Test Certificates

Marine / Shipping

Miscellaneous



Type Test Certificates/Test Report Special Test Certificate





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=3RV2011-1BA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-1BA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1BA10

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

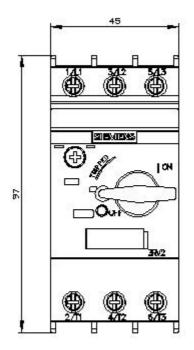
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-1BA10&lang=en

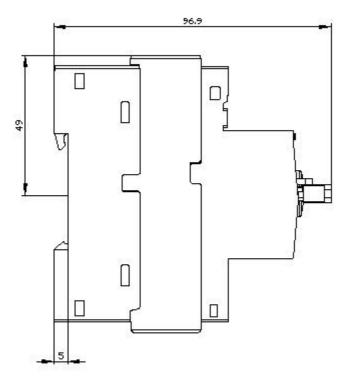
Characteristic: Tripping characteristics, I²t, Let-through current

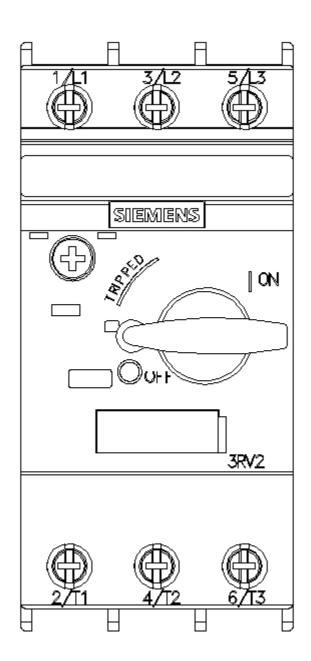
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1BA10/char

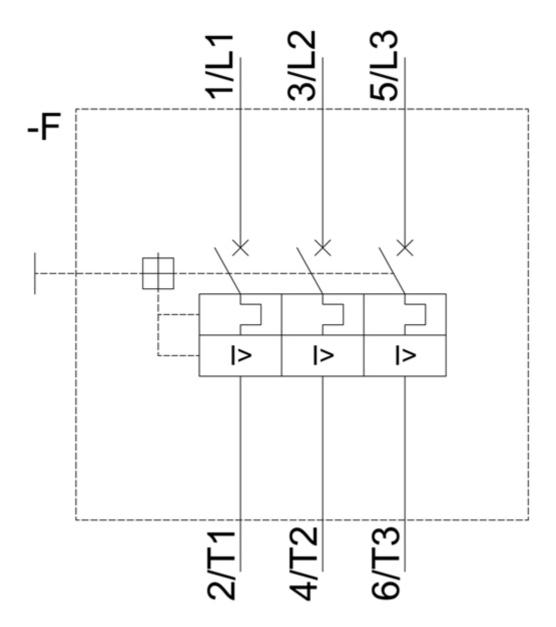
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1BA10&objecttype=14&gridview=view1









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