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

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	S00
size of contactor can be combined company-specific	S00, S0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	7.25 W
 at AC in hot operating state per pole 	2.4 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
mechanical service life (operating cycles)	
 of the main contacts typical 	100 000
 of auxiliary contacts typical 	100 000
electrical endurance (operating cycles) typical	100 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
SVHC substance name	Lead - 7439-92-1
Weight	0.344 kg
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 %
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	74.698 kg
global warming potential [CO2 eq] during manufacturing	1.98 kg
global warming potential [CO2 eq] during sales	0.134 kg
global warming potential [CO2 eq] during operation	72.7 kg
global warming potential [CO2 eq] after end of life	-0.116 kg
Siemens Eco Profile (SEP)	Siemens EcoTech

Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	1.4 2 A
type of voltage for main current circuit	AC
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	2 A
operational current	
 at AC-3 at 400 V rated value 	2 A
 at AC-3e at 400 V rated value 	2 A
operating power	
• at AC-3	
— at 230 V rated value	0.4 kW
— at 400 V rated value	0.75 kW
— at 500 V rated value	0.8 kW
— at 690 V rated value	1.1 kW
• at AC-3e	
• at AC-se — at 230 V rated value	0.4 kW
	0.75 kW
— at 400 V rated value	
— at 500 V rated value	0.8 kW
— at 690 V rated value	1.1 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
Auxiliary circuit	
type of voltage for auxiliary and control circuit	AC/DC
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	
Protective and monitoring functions product function	
	No
product function	No Yes
product function ground fault detection 	
 product function ground fault detection phase failure detection 	Yes
product function ground fault detection phase failure detection trip class	Yes CLASS 10
product function • ground fault detection • phase failure detection trip class design of the overload release	Yes CLASS 10
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu)	Yes CLASS 10 thermal
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value	Yes CLASS 10 thermal 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value	Yes CLASS 10 thermal 100 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 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 240 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 10 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 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 240 V rated value • at 240 V rated value • at 400 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 10 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value • at 500 V rated value • at 500 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at AC at 500 V rated value • at 240 V rated value • at 240 V rated value • at 500 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at AC at 690 V rated value • at 240 V rated value • at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value • at 400 V rated value • at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 240 V rated value • at 240 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	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 26 A
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 500 V rated value • at 690 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 26 A
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 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 240 V rated value • at 240 V rated value • at 500 V rated value • at 690 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value • at 600 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 26 A
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 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 240 V rated value • at 500 V rated value • at 690 V rated value • at 600 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 26 A 2 A 2 A
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 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 240 V rated value • at 690 V rated value • at 600 V rated value • at 200 V rated value • at 200 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 26 A
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 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 240 V rated value • at 500 V rated value • at 690 V rated value • at 600 V rated value • for single-phase AC motor - at 230 V rated	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 26 A 2 A 2 A 2 A 2 A
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 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 240 V rated value • at 240 V rated value • at 240 V rated value • at 690 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 230 V rated value • for single-phase AC motor - at 230 V rated value • for 3-phase AC motor - at 460/480 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 26 A 2 A 2 A 2 A 2 A 1 hp
product function • ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 500 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 240 V rated value • at 500 V rated value • at 600 V rated value • at 690 V rated value • at 600 V rated value • for single-phase AC motor - at 230 V rated	Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 26 A 2 A 2 A 2 A 2 A

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 DIN rail according to DIN EN 60715				
height	97 mm				
width	45 mm				
depth	97 mm				
required spacing					
 with side-by-side mounting at the side 	0 mm				
 for grounded parts at 400 V 					
— downwards	30 mm				
— upwards	30 mm				
— at the side	9 mm				
• for live parts at 400 V					
— downwards	30 mm				
— upwards	30 mm				
— at the side	9 mm				
 for grounded parts at 500 V 					
— downwards	30 mm				
— upwards	30 mm				
— at the side	9 mm				
 for live parts at 500 V 					
— downwards	30 mm				
— upwards	30 mm				
— at the side	9 mm				
• for grounded parts at 690 V					
— downwards	50 mm				
— upwards	50 mm				
— backwards	0 mm				
— at the side	30 mm				
— forwards	0 mm				
• for live parts at 690 V					
— downwards	50 mm				
— upwards	50 mm				
— backwards	0 mm				
— at the side	30 mm				
— forwards	0 mm				
Connections/ Terminals					
type of electrical connection					
for main current circuit	screw-type terminals				
arrangement of electrical connectors for main current circuit	Top and bottom				
type of connectable conductor cross-sections					
for main contacts					
— solid or stranded	2x (0,75 2,5 mm²), 2x 4 mm²				
— finely stranded with core end processing	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)				
for AWG cables for main contacts	2x (18 14), 2x 12				
tightening torque					
• for main 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	M3				
Safety related data					
product function suitable for safety function	Yes				

 Build of the section of the	suitability for use						
 ensign-related switching OFF Yes envice life necessary Yes proprior of dangerous altures entith righ demard rate according to SN 31920 50% Stick high demard rate according to SN 31920 50% Stick according to ISO 13849-1 secretarity with low demand rate according to SN 31920 Stick according to ISO 13849-2 necessary Yes reventionensioning according to ISO 13849-2 necessary Yes Stick according to IEC 61509-2 Type A Type A<td colspan="2">safety-related switching on</td><td>No</td><td></td><td></td><td></td>	safety-related switching on		No				
service life maximum 10 a text service life necessary Yes Propriotion of damagerous failures 4 49 % 4 5% 5000							
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 with high demand rate according to SN 31920 50 % 61 Value with high demand rate according to SN 31920 50 00 50 13440 50 13450 50 13450 60 10 10 10 10 10 10 10 10 10 10 10 10 10			920 40 %				
B10 value with high demand rate according to SN 5 000 S1300 S0 FIT S001 S0 TASAS Gevice type according to ISO TASAS1 3 soverdimensioning according to ISO TASAS2 Type A T1 value							
ising in the price							
31920							
device type according to ISO 13849-1 necessary 3 overdimensioning according to ISO 13849-2 necessary Yes EG 61508 Image: Safe Safe Safe Safe Safe Safe Safe Safe							
overdimensioning according to ISO 13849-2 necessary Yes IEC 81808 safety device type according to IEC 61598-2 Type A 1 Value 10 a iso proof less line real or service life according to IEC 60529 IP20 Forder Line class IP on the front according to IEC 60529 IP20 moderate line real or service life according to IEC 60529 Protection class IP on the front according to IEC 60529 IP20 moderate line real or service life according to IEC 60529 Obsplay moderate line real or service life according to IEC 60529 IP20 moderate line real or service life according to IEC 60529 Obsplay moderate line real or service life according to IEC 60529 IP20 moderate line real or service life according to IEC 60529 Obsplay moderate life IP20 moderate life moderate life Obsplay moderate life IP20 moderate life moderate life Obsplay moderate life IP20 moderate life IP20 General Product Approval moderate life Ip20 Ip20 Ip20 Sector moderate life moderate life Ip20 Ip20 Ip20 / model moderate life Ip20 Ip20 Ip20 Ip20 / model moderate life Ip20 Ip20 Ip20 Ip20 / model mode	ISO 13849						
IEC 61508 Safety device type according to IEC 61508-2 Type A * 1' value • for proof test interval or service life according to IEC 10 a Biscental Safety IP20 protection class IP on the front according to IEC 60529 IP20 Biscental Safety IP20 display version for switching status Handle Approvals Cordificates General Product Approval General Product Approval For use in hazardous locations Biscensa Exc. Biscensa Exc. Itcs Itcs Itcs	device type according to ISO 13849-1		3	3			
esfety device type according to IEC 61508-2 Type A If value • for poof test interval or service life according to IEC 60523 10 a escriptal Safety protection class IP on the front according to IEC 60523 IP20 rescriptal Safety protection class IP on the front according to IEC 60523 IP20 display version for switching status Handle Approval Concernal Product Approval Handle Oppoya External Safety Image status Martime application BLS CRS External Safety Image status Image status Martime application BLS CRS Image status Image status Image status Image status Image status Image status Martime application Image status Image status <td colspan="2">overdimensioning according to ISO 13849-2 necessary</td> <td>necessary Yes</td> <td></td> <td></td> <td></td>	overdimensioning according to ISO 13849-2 necessary		necessary Yes				
T value • for proof test interval or service life according to IEC 10 a • for proof test interval or service life according to IEC 60529 IP20 • touch protection on the front according to IEC 60529 IP20 • touch protection on the front according to IEC 60529 IP20 • touch protection on the front according to IEC 60529 IP20 • touch protection on the front according to IEC 60529 IP20 • touch protection on the front according to IEC 60529 IP20 • touch protection on the front according to IEC 60529 IP20 • touch protection on the front according to IEC 60529 IP20 • touch protection on the front according to IEC 60529 IP20 • touch protection on the front according to IEC 60529 IP20 • touch protection on the front according to IEC 60529 IP20 • touch protection on the front according to IEC 60529 IP20 • touch protection IECE IECE • touch protection IECE IECE IECE • touch protection Interval IECE IECE IECE • IECE IECE IECE IECE IECE IECE IECE IECE IECE IECE <	IEC 61508						
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6105 P20 Protection class IP on the front according to IEC 60529 P20 Siglay version for switching status Handle Approvals Contificatos General Product Approval General Product Approval For use in hazardous locations Test Certificates Bis CRS Exc. Exc. Maritime application Bis CRS Exc. Exc. Maritime application Waritime application Exc. Exc. Maritime application Maritime application Exc. Exc. Exc. Exc. Bis CRS Exc. Exc. Exc. Exc. Exc. It is application Exc. Exc. Exc. Exc. Exc. It is application Exc.	T1 value						
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Iouch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front Display display version for switching status Handle Approval General Product Approval KC Efficience General Product Approval For use in hazardous locations Test Certificates Maritime application BIS CRS Eisceic Eisceic Ingeresafe, for vertical contact from the front Maritime application Maritime application For use in hazardous locations Test Certificates Maritime application BIS CRS Eisceic Eisceic Eisceic Special Test Certificates Maritime application Other Railway Eisceic Eisceic Special Test Certificates Misceilianeous Other Railway Eisceic Eisceic Special Test Certificates Special Test Certificates Misceilianeous Other Railway Eisceic Eisceic Special Test Certificates Misceilianeous Other Railway Eisceic Confirmation Special Test Certificates Confirmation	Electrical Safety						
Display display version for switching status Handle Approvals Contificates General Product Approval ECC ECC Congrad Product Approval EC ECC Maritime application BIS CRS ECC ECC Maritime application BIS CRS ECC ECC Maritime application Maritime application ECC Special Test Certificates Maritime application Display ECC ECC ECC Maritime application ECC ECC ECC ECC ECC Maritime application Other Miscellaneous Miscellaneous Other Railway Environment Miscellaneous Environment Environment Environment Environment	protection class IP on	the front according to	IEC 60529 IP20				
display version for switching status Handle Approvals Certificates General Product Approval KC Efficience Ceneral Product Approval Examin Version KC Efficience Second Product Approval For use in hazardous locations Test Certificates Maritime application BIS.CRS Examin Examin Test Certificates Maritime application Maritime application Examin Examin Special Test Certificates Maritime application Waritime application Examin Examin Examin Miscellaneous other Railway Environment Environment Confirmation Examin Special Test Certificates Confirmation Environment Environment Environment Environment	-	e front according to IE	C 60529 finge	r-safe, for vertical contact	from the front		
Approvals Certificates Concertificates KC Efficience General Product Ap- proval For use in hazardous locations Test Certificates Maritime application BIS CRS Excer Excer Type Test Certificates Maritime application BIS CRS Excer Excer Type Test Certificates Special Test Certificates Maritime application Type Test Certificates Special Test Certificates Excer Maritime application Type Test Certificates Special Test Certificates Excer Maritime application Type Test Certificates Special Test Certificates Excer Maritime application Special Test Certificates Special Test Certificates Excerc Other Railway Excerc Miscelianeous Other Special Test Certificates Environment Confirmation Special Test Certificates Confirmation Special Test Certificates Voic Special Test Certificates Confirmation Special Test Certificates Miscellaneous Environment Environment Environmental Cons Special Test Certificates Special Test Certificates	Display						
General Product Approval CC	display version for swite	hing status	Hand	lle			
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Image: Second secon	Maritime application					other	
Confirmation Special Test Certific- ate Confirmation Siemens EcoTech Siemens EcoTech	AT TE	0.0		(All and a second secon	TA		
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Environmental Con-				PRS	Environment	Miscellaneous	
	other		Railway Special Test Certific-	PRS Confirmation	Environment	Siemens	
	other Confirmation	UNV DNV	Railway Special Test Certific-	Prs Confirmation	Environment	Siemens	

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=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://supp rt.industry.siemens.com/cs/ww/en/ps/3RV2011-1BA10

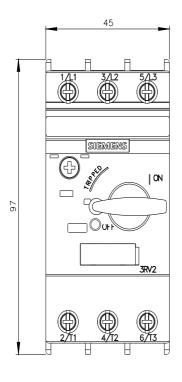
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-1BA10&lang=en

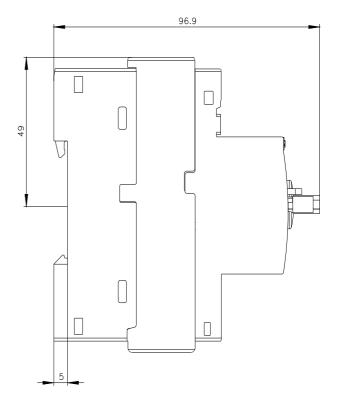
Characteristic: Tripping characteristics, I2t, Let-through current

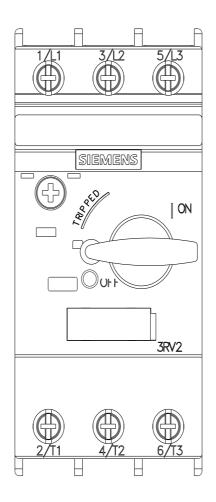
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1BA10/char

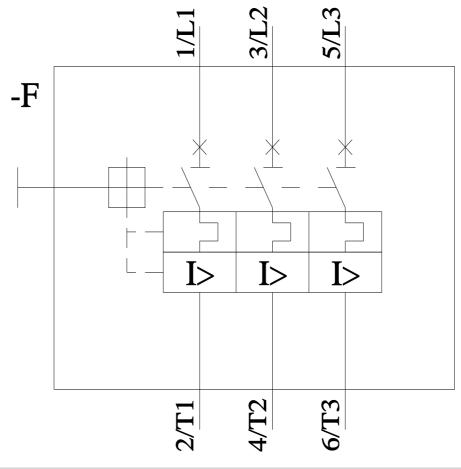
Further characteristics (e.g. electrical endurance, switching frequency)

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









5/16/2025 🖸