SIEMENS

Data sheet 3RV2411-0HA10



Circuit breaker size S00 for transformer protection A-release 0.55...0.8 A N-release 16 A screw terminal Standard switching capacity

product designation design of the product per designation 3RV2 General technical data size of the circuit-breaker size of orbitactor can be combined company-specific product type designation Size of contactor can be combined company-specific product extension auxiliary switch yes power loss [W] for rated value of the current • at AC in hot operating state per pole • at AC in hot operating state per pole insulation voitage with degree of pollution 3 at AC rated value shock resistance according to IEC 60088-2-27 surge voitage resistance rated value • of the main contacts typical • of the main contacts typical • of auxiliary contacts typical • of auxiliary contacts typical • of deviating to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation attitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation • during storage • during transport relative humidity during operation • at AC-3 arted value maximum • at AC-3 art 400 V rated value operational current rated value operational current rated value operational current rated value • at AC-3 art 400 V rated value	product brand name	SIRIUS
product type designation 3RV2 General technical data size of the circuit-breaker \$00.50 size of the circuit-breaker \$00.50 product extension auxiliary switch Yes power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating to EC 60068-2-27 25g / 11 ms mochanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical • of auxil	product designation	Circuit breaker
Size of the circuit-breaker size of the circuit-breaker size of the circuit-breaker size of contactor can be combined company-specific S00, S0 product extension auxiliary switch Yes power loss IWJ 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 800 V surge voltage resistance rated value 6 kV shock resistance according to IEC 60068-227 25g / 11 ms mechanical service life (operating cycles) of the main contacts typical 100 000 electrical endurance (operating cycles) of the main contacts typical 100 000 electrical endurance (operating cycles) yipical 100 000 electrical endurance (operating operation 100 000 electrical endurance (operation 100 000 electrical	design of the product	For transformer protection
size of the circuit-breaker size of contactor can be combined company-specific product extension auxiliary switch power loss [W] for rated value of the current * at AC in hot operating state * at AC in hot operating state * at AC in hot operating state * at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value shock resistance according to IEC 60068-2-27 mechanical service life (operating cycles) * of the main contacts typical * of auxiliary contacts typical *	product type designation	3RV2
size of contactor can be combined company-specific product extension auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole • at AC in hot operating state per pole surge voltage resistance rated value shock resistance according to IEC 60068-2-27 mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical • of multiple of auxiliary contacts typical • of unitiple of the contact typical installation altitude at height above sea level maximum • during operation • during storage • during operation • during storage • during transport • during transport • during transport • during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload releas operating voltage • rated value • at AC-3 rated value maximum • at AC-3 rated value maximum • at AC-3 rated value • operational current rated value operational current • at AC-3 at 400 V rated value operational current • at AC-3 at 400 V rated value 0 operational current • at AC-3 at 400 V rated value 0 operational current • at AC-3 at 400 V rated value	General technical data	
product extension auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value 680 V surge voltage 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 electrical endurance (operating cycles) (typical) electrical endurance (operating oxides) (typical) elec	size of the circuit-breaker	S00
power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state pole • at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance according to IEC 60068-2-27 25g / 11 ms mechanical service life (operating cycles) • of the main contacts typical • of the main contacts typical • of auxiliary contacts typical • of auxiliary contacts typical • of auxiliary contacts typical 100 000 • delectrical endurance (operating cycles) typical 100 000 • delectrical endurance (operating cycles) typical 20 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during storage • during transport relative humidity during operation Main circuit number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release operating voltage • rated value maximum 690 V • at AC-3 rated value maximum • at AC-3 rated value maximum • at AC-3 at 400 V rated value 0 AT AC-3 rated value 0 AT AC-3 rated value maximum • at AC-3 at 400 V rated value 0 AT AC-3 rated value maximum • at AC-3 at 400 V rated value 0 AT AC-3 rated value 0 A	size of contactor can be combined company-specific	S00, S0
at AC in hot operating state at AC in hot operating state per pole at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value shock resistance according to IEC 60068-2-27 25g / 11 ms mechanical service life (operating cycles) of the main contacts typical of auxiliary contacts typical lou 000 electrical endurance (operating cycles) typical reference code according to IEC 81346-2 Qu Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature olduring operation olduring storage olduring transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage orated value at AC-3 rated value maximum eat AC-3 rated value maximum operational current operational current operational current operational current operational current ot AC-3 at 400 V rated value O.8 A	product extension auxiliary switch	Yes
at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value shock resistance according to IEC 60068-2-27 25g / 11 ms mechanical service life (operating cycles) of the main contacts typical of auxiliary contacts typical lectrical endurance (operating cycles) typical electrical endurance (operating cycles) typical lectrical endurance (operating cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature olduring operation olduring storage olduring transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum 690 V operational current at AC-3 rated value operational current at AC-3 at 400 V rated value operational current of at AC-3 at 400 V rated value 0.8 A	power loss [W] for rated value of the current	
insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value shock resistance according to IEC 60068-2-27 25g / 11 ms mechanical service life (operating cycles) of the main contacts typical for the main contacts typical of auxiliary contacts typical electrical endurance (operating cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum of uring operation of uring storage of uring transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage or at AC-3 rated value maximum operational current ot AC-3 at 400 V rated value Operational current ot at AC-3 at 400 V rated value Operational current ot at AC-3 at 400 V rated value Operational current ot at AC-3 at 400 V rated value Operational current ot at AC-3 at 400 V rated value Operational current ot at AC-3 at 400 V rated value Operational current ot at AC-3 at 400 V rated value Operational current ot at AC-3 at 400 V rated value	 at AC in hot operating state 	7.25 W
surge voltage resistance rated value shock resistance according to IEC 60068-2-27 25g / 11 ms mechanical service life (operating cycles) • of the main contacts typical 100 000 electrical endurance (operating cycles) typical lectrical endurance (operating cycles) typical lectrical endurance (operating cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum 690 V operational current • at AC-3 rated value operational current • at AC-3 at 400 V rated value Operational current • at AC-3 at 400 V rated value Oscious AC-3 of AC-3 at 400 V rated value Oscious AC-3 at 400 V rated value Operational current • at AC-3 at 400 V rated value Oscious AC-3 of AC-3 at 400 V rated value Oscious AC-3 at 400 V rated value	 at AC in hot operating state per pole 	2.4 W
shock resistance according to IEC 60068-2-27 mechanical service life (operating cycles) of the main contacts typical of auxiliary contacts typical electrical endurance (operating cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during transport relative humidity during operation mumber of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage arted value at AC-3 arated value maximum operations (0.8 A operational current operating requency rated value operational current rated value operational current at AC-3 at 400 V rated value operational current at AC-3 at 400 V rated value operational current at AC-3 at 400 V rated value operational current at AC-3 at 400 V rated value operational current at AC-3 at 400 V rated value operational current at AC-3 at 400 V rated value operational current at AC-3 at 400 V rated value operational current at AC-3 at 400 V rated value operational current at AC-3 at 400 V rated value operational current at AC-3 at 400 V rated value operational current at AC-3 at 400 V rated value operational current at AC-3 at 400 V rated value operational current at AC-3 at 400 V rated value operational current at AC-3 at 400 V rated value	insulation voltage with degree of pollution 3 at AC rated value	690 V
mechanical service life (operating cycles) of the main contacts typical of auxiliary contacts typical electrical endurance (operating cycles) typical lou 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature olduring operation during storage olduring transport relative humidity during operation mumber of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage or at AC-3 ar ated value maximum operational current rated value operational current of the darks operational current rated value operational current of the Canada AA operational current of the current of the current of the current of 900 V operating frequency rated value operational current rated value operational current of the Canada AA operational current of the Canada operational current of	surge voltage resistance rated value	6 kV
of the main contacts typical of auxiliary contacts typical electrical endurance (operating cycles) typical incomparison of the main contacts typical electrical endurance (operating cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature ouring operation eduring storage during storage ouring transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage or rated value at AC-3 rated value maximum operating frequency rated value operational current rated value operating frequency rated value operational current rated value operational current rated value operational current rated value operational current rated value operational current at AC-3 at 400 V rated value operational current at AC-3 at 400 V rated value operational current other and a substance of the current of the current operational current other and a substance of the current operational current other and a substance of the current operational current other and a substance of the current operational current other and a substance of the current of the current of the current of	shock resistance according to IEC 60068-2-27	25g / 11 ms
of auxiliary contacts typical electrical endurance (operating cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature o during operation during storage during storage during transport relative humidity during operation Inumber of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum operating frequency rated value operational current o.88 A operational current at AC-3 at 400 V rated value operational current o.88 A	mechanical service life (operating cycles)	
electrical endurance (operating cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions Installation altitude at height above sea level maximum ambient temperature e during operation -20 +60 °C during storage -50 +80 °C eduring transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum eya t AC-3 rated value maximum operating frequency rated value operational current e at AC-3 at 400 V rated value 0.8 A	 of the main contacts typical 	100 000
reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 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 operating voltage • rated value • at AC-3 rated value maximum 690 V operating frequency rated value operational current rated value 50 60 Hz operational current rated value 0.8 A	of auxiliary contacts typical	100 000
Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum operational current rated value operational current rated value operational current rated value 0.8 A	electrical endurance (operating cycles) typical	100 000
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum operational current rated value operational current rated value 0.8 A	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value operating frequency rated value operational current rated value 0.8 A operational current • at AC-3 at 400 V rated value 0.8 A	Substance Prohibitance (Date)	10/01/2009
ambient temperature • during operation • during storage • during transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value operational current rated value 0.8 A	Ambient conditions	
 during operation during storage during transport 50 +80 °C during transport 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum at AC-3 rated value maximum 690 V at AC-3e rated value maximum 690 V operating frequency rated value operational current rated value 0.8 A operational current at AC-3 at 400 V rated value 0.8 A 	installation altitude at height above sea level maximum	2 000 m
 during storage during transport 50 +80 °C relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum eat AC-3 rated value maximum operating frequency rated value operating frequency rated value operational current rated value 0.8 A 	ambient temperature	
 during transport relative humidity during operation 10 95 % Main circuit adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum operating frequency rated value operating frequency rated value operational current rated value o.8 A 	during operation	-20 +60 °C
relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • 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 • at AC-3 at 400 V rated value 0.8 A	during storage	-50 +80 °C
number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum 690 V operating frequency rated value operational current • at AC-3 at 400 V rated value 0.8 A	during transport	-50 +80 °C
number of poles for main current circuit adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum 690 V operating frequency rated value operational current rated value • at AC-3 at 400 V rated value 0.8 A	relative humidity during operation	10 95 %
adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value operational current rated value • at AC-3 at 400 V rated value 0.8 A	Main circuit	
dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value operational current rated value • at AC-3 at 400 V rated value 0.8 A	number of poles for main current circuit	3
 rated value at AC-3 rated value maximum 690 V at AC-3e rated value maximum 690 V operating frequency rated value operational current rated value 0.8 A operational current at AC-3 at 400 V rated value 0.8 A 		0.55 0.8 A
 at AC-3 rated value maximum at AC-3e rated value maximum 690 V operating frequency rated value operational current rated value operational current at AC-3 at 400 V rated value 0.8 A 	operating voltage	
 at AC-3e rated value maximum 690 V operating frequency rated value operational current rated value operational current at AC-3 at 400 V rated value 0.8 A 	• rated value	20 690 V
operating frequency rated value 50 60 Hz operational current rated value 0.8 A operational current • at AC-3 at 400 V rated value 0.8 A	 at AC-3 rated value maximum 	690 V
operational current rated value operational current • at AC-3 at 400 V rated value 0.8 A 0.8 A	 at AC-3e rated value maximum 	690 V
operational current	operating frequency rated value	50 60 Hz
• at AC-3 at 400 V rated value 0.8 A	operational current rated value	0.8 A
	operational current	
• at AC-3e at 400 V rated value 0.8 A	• at AC-3 at 400 V rated value	0.8 A
	 at AC-3e at 400 V rated value 	0.8 A

operating power	
• at AC-3	
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.2 kW
— at 500 V rated value	0.3 kW
— at 690 V rated value	0.4 kW
• at AC-3e	
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.2 kW
— at 500 V rated value	0.3 kW
— at 690 V rated value	0.4 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e 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	
ground fault detection	No
phase failure detection	Yes
trip class	CLASS 10
design of the overload release	thermal
maximum short-circuit current breaking capacity (Icu)	
• at AC at 240 V rated value	100 kA
at AC at 400 V rated value	100 kA
at AC at 500 V rated value	100 kA
at AC at 690 V rated value	100 kA
operating short-circuit current breaking capacity (Ics) at AC	100 101
at 240 V rated value	100 kA
at 400 V rated value	100 kA
at 500 V rated value at 500 V rated value	100 KA
at 690 V rated value at 690 V rated value	100 KA
response value current of instantaneous short-circuit trip unit	16 A
UL/CSA ratings	10 A
full-load current (FLA) for 3-phase AC motor	0.0 4
at 480 V rated value	0.8 A
at 600 V rated value	0.8 A
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 690 V	al /aG 6 A
	gL/gG 6 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
— 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 mm²), 2x (0.75 2.5 mm²)
 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	
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 a
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	











Test Certificates

Marine / Shipping









Marine / Shipping

other

Railway





Confirmation



Confirmation

Vibration and Shock

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RV2411-0HA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2411-0HA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-0HA10

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

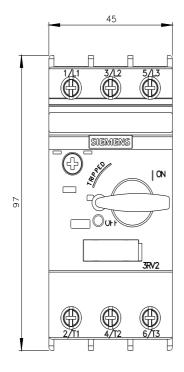
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2411-0HA10&lang=en

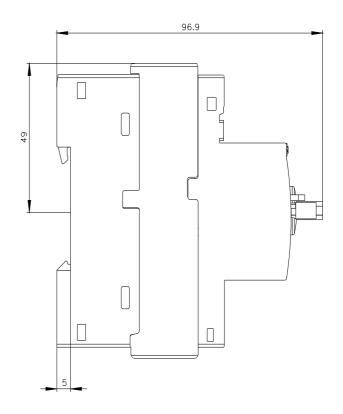
Characteristic: Tripping characteristics, I2t, Let-through current

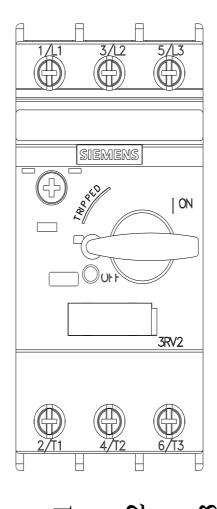
https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-0HA10/char

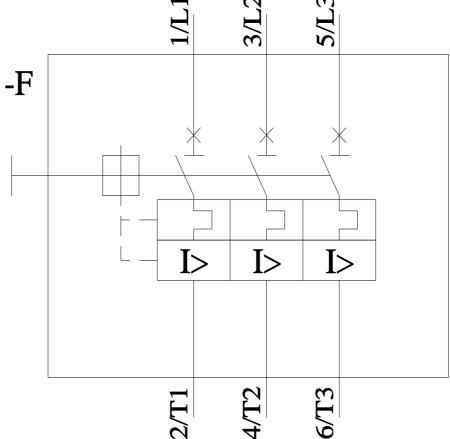
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2411-0HA10&objecttype=14&gridview=view1









last modified: 11/21/2022 🖸