SIEMENS

Data sheet 3RV2021-1KA25



Circuit breaker size S0 for motor protection, CLASS 10 A-release 9...12 A N-release 163 A Spring-type terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC

SIRIUS product brand name product designation Circuit breaker design of the product For motor protection product type designation 3RV2 General technical data S0 size of the circuit-breaker 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 9.25 W 3.1 W • at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated 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 type of protection according to ATEX directive Ex II (2) GD 2014/34/EU certificate of suitability according to ATEX directive **DMT 02 ATEX F 001** 2014/34/FU reference code according to IEC 81346-2 10/01/2009 **Substance Prohibitance (Date) Ambient conditions** installation altitude at height above sea level maximum 2 000 m ambient temperature -20 ... +60 °C · during operation -50 ... +80 °C 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 9 ... 12.5 A current-dependent overload release operating voltage rated value 20 ... 690 V 690 V • at AC-3 rated value maximum • at AC-3e rated value maximum 690 V operating frequency rated value 50 ... 60 Hz operational current rated value 12.5 A

*** AC-3 it 400 V rated value	operational current	
* at AC-2e at 400 V rated value		12.5 A
cal AC-3		
	operating power	1200
	— at 230 V rated value	3 kW
at 80-0 Yrated value at 80-0 yrated value at 900 Vrated value yerating requency at AC-3 maximum at AC-3 maximum by 15 t/h Auxiliary circuit Auxiliary creat to esign of the auxiliary switch number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts 1 number of CC contacts for auxiliary contacts number of CC contacts for auxiliary contacts number of CC contacts for auxiliary contacts 1 number of CC contacts for auxiliary contacts 2 number of CC contacts for auxiliary contacts 1 number of CC contacts for auxiliary contacts 2 at 24 V at 120 V 3 at 120 V 3 at 25 V 3 at 30 V 3 at 30 V 3 by 2 by 3 by 4 at 80 V 4 by 5 by 6		5.5 kW
	— at 500 V rated value	7.5 kW
	— at 690 V rated value	7.5 kW
	• at AC-3e	
	— at 230 V rated value	3 kW
at 890 V rated value	— at 400 V rated value	5.5 kW
operating frequency	— at 500 V rated value	7.5 kW
a ta AC-3 maximum a ta AC-3 emaximum b to this Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15 at 24 V at 120 V b ta 125 V c at 230 V operational current of auxiliary contacts at DC-13 at 24 V at 20 V c at 320 V operational current of auxiliary contacts at DC-13 at 24 V at 30 V operational current of auxiliary contacts at DC-13 b ta 12 b V c at 30 V operational current of auxiliary contacts at DC-13 b ta 12 c V c at 30 V operational current of auxiliary contacts at DC-13 b ta 12 c V c at 30 V operational current of auxiliary contacts at DC-13 b ta 12 c V c at 30 V operational current of auxiliary contacts at DC-13 b ta 2 c V c at 30 V operational current of auxiliary contacts at DC-13 b ta 2 c V c at 30 V operational current for auxiliary contacts at DC-13 b ta 2 c V c at 3	— at 690 V rated value	7.5 kW
at AC-3e maximum		
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design of the auxiliary switch number of NC contacts for auxiliary contacts 1 number of NO contacts for auxiliary contacts 1 number of CO contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15 • at 24 V • at 120 V • at 125 V • at 230 V • at 24 V • at 24 V • at 25 V • at 24 V • at 25 V • at 24 V • at 26 V • at 27 V • at 27 V • at 28 V • at 28 V • at 29 V • at 20 V	at AC-3e maximum	15 1/h
number of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts operational current of auxiliary contacts 0 operational current of auxiliary contacts at AC-15 • at 24 V • at 120 V • at 125 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V operational current of auxiliary contacts at DC-13 • at 60 V operational current of auxiliary contacts at DC-13 • at 60 V operational current of auxiliary contacts at DC-13 • at 60 V operational current of auxiliary contacts at DC-13 • at 60 V operational current of auxiliary contacts at DC-13 • at 60 V operational current of auxiliary contacts at DC-13 • at 60 V operational current of auxiliary contacts at DC-13 • AC at 240 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at 40 V rated value • at 60	Auxiliary circuit	
number of NO contacts for auxiliary contacts 1 operational current of auxiliary contacts at AC-15 0 • at 124 V 0.5 A • at 125 V 0.5 A • at 230 V 0.5 A • at 230 V 0.5 A operational current of auxiliary contacts at DC-13 1 A • at 60 V 1 A • at 60 V 0.15 A Protective and monitoring functions Intercent and monito	design of the auxiliary switch	transverse
number of CO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15		1
a 2 4 V		1
	· · · · · · · · · · · · · · · · · · ·	0
e at 24 V 1 e at 60 V 0.15 A Protective and monitoring functions product function • ground fault detection No e hase failure detection Yes design of the overload release maximum short-circuit current breaking capacity (Icu) e at AC at 240 V rated value 100 kA e at AC at 500 V rated value 6 kA e at 240 V rated value 100 kA e at AC at 500 V rated value 100 kA e at AC at 500 V rated value 6 kA e at 240 V rated value 100 kA e at 240 V rated value 100 kA e at 324 V rated value 100 kA e at 324 V rated value 100 kA e at 500 V rated value 100 kA e at 600 V rated value 100 kA e at 600 V rated value 100 kA e at 600 V rated value 120 kA e at 600 V rated value 125 kA e at 600 V rated value 2 kp e at 230 V rated value 2 kp e at 230 V rated value 2 kp e at 230 V rated value 3 kp e at 220/230 V rated value 3 kp e at 220/230 V rated value 3 kp e at 575/600 V rated value 8 kp		
		0.5 A
• at 60 V Protective and monitoring functions product function • ground fault detection • phase failure detection • product function • ground fault detection • phase failure detection • ground fault detection • phase failure detection trip class CLASS 10 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 • at AC at 500 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value • at 220 V rated value • at 200 V rated value • at 200/208 V rated value • at 200/208 V rated value • at 480 V rated value • at 200/208 V rated value • at 480 V rated value • at 800 V rated value • at 900 V rated val		
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• ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 24 0V 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 240 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 480 V rated value • at 480 V rated value • at 480 V rated value • at 480 V rated value • at 480 V rated value • at 600 V rated value • at 200 V rated value • at 330 V rated value • at 320 V rated value • for 3-phase AC motor — at 110/120 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 460/480 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 • 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 200/200 V rated value • for 3-phase AC motor — at 200/200 V rated value • for 3-phase AC motor — at 575/600 V rated value • for 3-phase AC motor — at 575/600 V rated value • for 3-phase AC motor		
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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 at AC at 500 V rated value at AC at 690 V rated value operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value 100 kA at 400 V rated value 100 kA at 400 V rated value 42 kA at 500 V rated value 42 kA at 690 V rated value 44 kA response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 12.5 A yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value 7 chart value 9 for 3-phase AC motor — at 230 V rated value 9 for 3-phase AC motor — at 200/208 V rated value 9 for 3-phase AC motor — at 200/208 V rated value 9 for 3-phase AC motor — at 200/208 V rated value 9 for 3-phase AC motor — at 200/208 V rated value 9 for 3-phase AC motor — at 200/208 V rated value 9 for 3-phase AC motor — at 200/208 V rated value 9 for 3-phase AC motor — at 200/208 V rated value 9 for 3-phase AC motor — at 200/208 V rated value 9 for 3-phase AC motor — at 200/208 V rated value 9 for 3-phase AC motor — at 200/208 V rated value 9 for 3-phase AC motor — at 200/208 V rated value 9 for 3-phase AC motor — at 200/208 V rated value 9 for 3-phase AC motor — at 200/208 V rated value 9 for 3-phase AC motor — at 200/208 V rated value 9 for 3-phase AC motor — at 200/208 V rated value 9 for 3-phase AC motor — at 200/208 V rated value 9 for 3-phase AC motor 9 for 3-phase AC		
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maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 5500 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 500 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value response value current of instantaneous short-circuit trip unit ULICSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 110/120 V rated value • at 220/27 V rated value • for 3-phase AC motor — at 220/28 V rated value • for 3-phase AC motor — at 220/230 V rated value • at 480 V rated value • at 480 V rated value • for 3-phase AC motor — at 220/230 V rated value • for 3-phase AC motor — at 220/230 V rated value • at 480 V rated value • for 3-phase AC motor — at 220/230 V rated value • for 3-phase AC motor — at 220/230 V rated value • for 3-phase AC motor — at 220/230 V rated value • for 3-phase AC motor — at 220/230 V rated value • for 3-phase AC motor — at 220/230 V rated value • for 3-phase AC motor — at 220/230 V rated value • for 3-phase AC motor — at 220/230 V rated value • for 3-phase AC motor — at 220/230 V rated value • for 3-phase AC motor — at 220/230 V rated value • for 3-phase AC motor — at 220/230 V rated value • for 3-phase AC motor — at 220/230 V rated value • for 3-phase AC motor — at 220/230 V rated value • for 3-phase AC motor — at 220/230 V rated value • for 3-phase AC motor — at 220/230 V rated value • for 3-phase AC motor — at 220/230 V rated value • for 3-phase AC motor — at 220/230 V rated value • for 3-phase AC motor — at 220/230 V rated value • for 3-phase AC motor • for a for		
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at AC at 690 V rated value operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value at 400 V rated value at 500 V rated value at 690 V rated value 4 kA at 690 V rated value 4 kA response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 12.5 A at 600 V rated value 12.5 A yielded mechanical performance [hp] for single-phase AC motor - at 110/120 V rated value - at 230 V rated value for 3-phase AC motor - at 200/208 V rated value - at 220/230 V rated value - at 220/230 V rated value - at 460/480 V rated value - at 460/480 V rated value - at 575/600 V rated value		
operating short-circuit current breaking capacity (Ics) at AC • at 240 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • for single-phase AC motor — at 110/120 V rated value • at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value • at 220/230 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value 8 hp — at 4575/600 V rated value 100 kA 10		
at AC • at 240 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value • at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 575/600 V rated value 8 hp — at 575/600 V rated value 100 kA 163 A 163 A 163 A 175 A 185 A 196 A 196 S 197 S 198		
 at 400 V rated value at 500 V rated value at 690 V rated value 4 kA response value current of instantaneous short-circuit trip unit 163 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value for single-phase AC motor at 110/120 V rated value at 230 V rated value at 230 V rated value at 230 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 b hp at 575/600 V rated value at 9 hp 		
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 at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 200/208 V rated value at 200/230 V rated value at 460/480 V rated value at 575/600 V rated value bhp 	 at 400 V rated value 	100 kA
response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 12.5 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 2 hp • for 3-phase AC motor — at 230 V rated value 2 hp • for 3-phase AC motor — at 200/208 V rated value 3 hp — at 220/230 V rated value 3 hp — at 460/480 V rated value 8 hp — at 575/600 V rated value 10 hp		42 kA
unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 12.5 A yielded mechanical performance [hp] • 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 3 hp — at 220/230 V rated value — at 460/480 V rated value 8 hp — at 575/600 V rated value 10 hp		
Tull-load current (FLA) for 3-phase AC motor		163 A
full-load current (FLA) for 3-phase AC motor at 480 V rated value 12.5 A at 600 V rated value 12.5 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value 2 hp at 230 V rated value 2 hp for 3-phase AC motor at 200/208 V rated value 3 hp at 220/230 V rated value 3 hp at 460/480 V rated value 8 hp at 575/600 V rated value 10 hp		
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 at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value — at 230 V rated value for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value 10 hp 		12.5 A
 for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value for 3 hp bp at 575/600 V rated value for 3 hp for 4 hp 	at 600 V rated value	12.5 A
 for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value for 3 hp bp at 575/600 V rated value for 3 hp for 4 hp 		
 — at 110/120 V rated value — at 230 V rated value ● for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value 10 hp 		
● for 3-phase AC motor — at 200/208 V rated value 3 hp — at 220/230 V rated value 3 hp — at 460/480 V rated value 8 hp — at 575/600 V rated value 10 hp		0.5 hp
- at 200/208 V rated value 3 hp - at 220/230 V rated value 3 hp - at 460/480 V rated value 8 hp - at 575/600 V rated value 10 hp	— at 230 V rated value	2 hp
- at 220/230 V rated value 3 hp - at 460/480 V rated value 8 hp - at 575/600 V rated value 10 hp	 for 3-phase AC motor 	
— at 460/480 V rated value 8 hp — at 575/600 V rated value 10 hp	— at 200/208 V rated value	3 hp
— at 575/600 V rated value 10 hp	 at 220/230 V rated value 	3 hp
	 at 460/480 V rated value 	8 hp
contact rating of auxiliary contacts according to UL C300 / R300		
	contact rating of auxiliary contacts according to UL	C300 / R300

Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link	
for short-circuit protection of the auxiliary switch	Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current
required	Ik < 400 Å)
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN
-	60715
height	119 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	O IIIIII
— downwards	50 mm
	50 mm
— upwards — backwards	0 mm
— at the side	30 mm
— forwards	0 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	spring-loaded terminals
for auxiliary and control circuit	spring-loaded 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 10 mm²)
 finely stranded with core end processing 	2x (1 6 mm²)
 finely stranded without core end processing 	2x (1 6 mm²)
 at AWG cables for main contacts 	2x (18 8)
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid or stranded	2x (0.5 2.5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²)
— finely stranded without core end processing	2x (0.5 1.5 mm²)
at AWG cables for auxiliary contacts	2x (20 14)
design of screwdriver shaft	Diameter 3 mm
size of the screwdriver tip	3,0 x 0,5 mm

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 10 a IEC 61508 IP20 protection class IP on the front according to IEC touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front

Handle

Certificates/ approvals

General Product Approval

display version for switching status

For use in hazardous locations



Confirmation



<u>KC</u>





For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping







Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping













other

Railway

Confirmation



Vibration and Shock

Confirmation

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=3RV2021-1KA25

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-1KA25

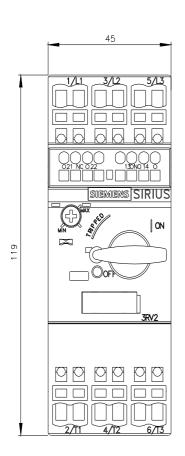
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

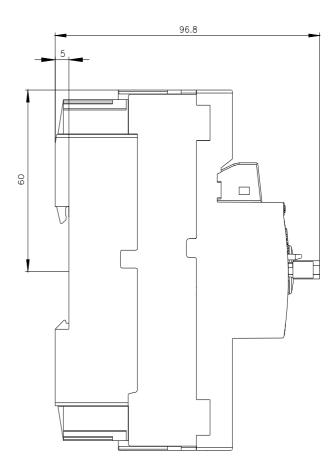
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-1KA25

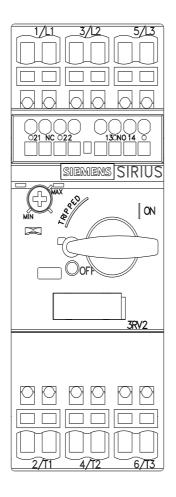
Characteristic: Tripping characteristics, I²t, Let-through current

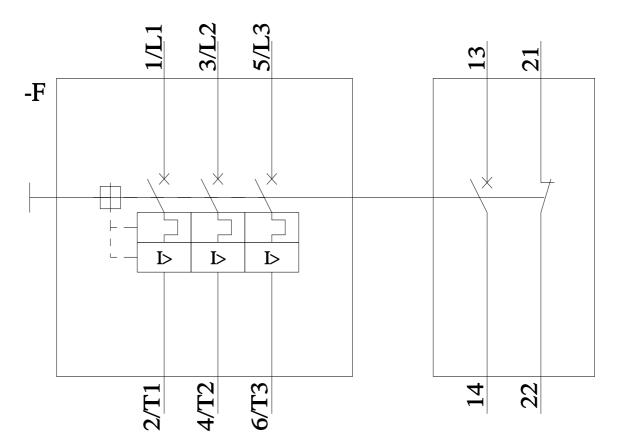
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-1KA25/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-1KA25&objecttype=14&gridview=view1









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