SIEMENS

Data sheet 3RV2342-4JC10



Circuit breaker size S3 for starter combination Rated current 63 A N-release 819 A screw terminal Increased switching capacity 100 kA





product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For starter combinations
product type designation	3RV2
General technical data	
size of the circuit-breaker	S3
size of contactor can be combined company-specific	S3
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	34 W
 at AC in hot operating state per pole 	11.3 W
insulation voltage with degree of pollution 3 at AC rated value	1 000 V
surge voltage resistance rated value	8 kV
shock resistance according to IEC 60068-2-27	25g / 11 ms Sinus
mechanical service life (operating cycles)	
 of the main contacts typical 	25 000
 of auxiliary contacts typical 	25 000
electrical endurance (operating cycles) typical	25 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	03/01/2017
SVHC substance name	Lead - 7439-92-1
Weight	2.216 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	
global warming potential [CO2 eq] total	283.24 kg
global warming potential [CO2 eq] during manufacturing	18.5 kg
global warming potential [CO2 eq] during sales	1.24 kg
global warming potential [CO2 eq] during operation	265 kg
global warming potential [CO2 eq] after end of life	-1.5 kg
Siemens Eco Profile (SEP)	Siemens EcoTech
Main circuit	

product function short circuit protection Yes design of the short-circuit trip magnetic	number of polos for main surrent sires:	2
and AC-3er rated value maximum		
e al A-C-3 e rated value maximum		20 690 V
### ARC-3e rated value macmium operational current rated value operational current rated value operational current ### ARC-3e at 400 V rated value ### ARC-3e macmium ### ARC-3e ma		
operational current reted value 53 A 5		
Operational current rated value		
* at AC-3 at 400 V rated value * at AC-3 at 400 V rated value * at AC-3 at 400 V rated value * at AC-3 * at 300 V rated value * at AC-3 * at 300 V rated value * at 300 V rated value * at 200 V rated value * at 200 V rated value * at 200 V rated value * at 300 V rated value * at 300 V rated value * at AC-3 * at 300 V rated value * at AC-3 maximum * at AC-3 maxim	<u> </u>	03 A
### AG-3e ##		CO A
		03 A
		40 5 13M
→ at AG-3e		
		55 KVV
		40.5 134
— at 690 V rated value 55 kW		
operating frequency		
• at AC-3 maximum 15 1/h • at AC-3 e maximum 15 1/h • protective and monitoring functions product function No • ground fault detection No • plase failure detection No design of the overload release thermal maximum short-circuit current breaking capacity (Icu) • at AC at 240 v rated value • at AC at 6500 V rated value 100 kA • at AC at 690 V rated value 7.5 kA • at AC at 690 V rated value 50 kA • at 240 V rated value 50 kA • at 600 V rated value 7.5 kA • at 600 V rated value 4 kA • at 600 V rated value 4 kA • at 600 V rated value 4 kA • at 600 V rated value 63 A • at 600 V rated value 5 hp • at 600 V rated value 5 hp • at 730 V rated value 5 hp • at 600 V rated value 60 hp • f		OO KVV
• at AC-3e maximum Protective and monitoring functions product function • ground fault detection • hose phase failure detection • phase failure detection • at AC at 240 V rated value • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at AC at 400 V rated value • at AC at 400 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at 480 V rated value • at 300 V rated value • at 480 V rated value • at 500 V rated value • at 480 V rated value • at 500 V rated value • 50 hp - at 220/208 V rated value • 50 hp - at 270/208 V rated value • 50 hp - at 270/208 V rated value • 50 hp - at 575/600 V rated value • 50 hp - at 575/600 V rated value • 60 hp Short-circuit protection Product function short circuit protection Ves design of the short-circuit protection product function short circuit protection product function short cir		45.40
Protective and monitoring functions product function • ground fault detection • prase failure detection No 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 600 V rated value • at AC at 600 V rated value • at AC at 600 V rated value • at 240 V rated value • at 400 V rated value • at 300 V rated value • at 400 V rated value • at 400 V rated value • at 600 V rated value • at 200 V rated value • for 3-phase AC motor • at 460 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated valu		
product function		15 1/n
ground fault detection phase failure detection design of the overload release thermal 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 bat AC at 690 V rated value at AC at 690 V rated value at AC at 690 V rated value bat AC at 400 V rated value at 400 V rated value at 400 V rated value bat 400 V rated value bat 690 V rated value at 590 V rated value bat 690 V rat		
• phase failure detection No	•	
design of the overload release thermal maximum short-circuit current breaking capacity (Icu) 100 kA • at AC at 440 V rated value 100 kA • at AC at 550 V rated value 15 kA • at AC at 550 V rated value 7.5 kA operating short-circuit current breaking capacity (Ics) at AC • at 240 V rated value • at 400 V rated value 50 kA • at 550 V rated value 4 kA • at 550 V rated value 4 kA • at 550 V rated value 4 kA • at 480 V rated value 63 A • at 600 V rated value 5 hp • for single-phase AC motor 4 the properties of the pr	-	
maximum short-circuit current breaking capacity (Icu) at AC at 240 V rated value at AC at 400 V rated value 5 thA at AC at 500 V rated value 5 thA at AC at 500 V rated value 7.5 kA operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value 5 thA at 400 V rated value 5 thA at 500 V rated value 5 thA at 500 V rated value 5 thA at 500 V rated value 6 thA at 500 V rated value 7.5 kA at 690 V rated value 8 thA at 690 V rated value 9 thA at 190 V rated value 9 thA at 200 V rated value 9 thA at 690 V rated val		
at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value 5 kA at AC at 500 V rated value 7.5 kA operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value 50 kA at 240 V rated value 50 kA at 500 V rated value 7.5 kA operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value 50 kA at 500 V rated value 7.5 kA eat 690 V rated value 819 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 63 A at 600 V rated value 63 A at 600 V rated value 63 A yielded mechanical performance [hp] for single-phase AC motor —at 110/120 V rated value 5 hp —at 230 V rated value 63 A for 3-phase AC motor —at 230 V rated value 5 hp —at 220/230 V rated value 5 hp —at 220/230 V rated value 5 hp —at 480/480 V rated value 95 hp —at 480/480 V rated value 96 hp short-circuit protection product function short circuit protection yes design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		thermal
at AC at 400 V rated value at AC at 500 V rated value at AC at 690 V rated value perating short-circuit current breaking capacity (Ics) at AC 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 800 V rated value be for single-phase AC motor at 110/120 V rated value at 200/208 V rated value at 200/208 V rated value be for 3-phase AC motor at 200/208 V rated value at 800/400 V rated value at 800/400 V rated value be for 3-phase AC motor at 200/208 V rated value at 800/400 V rated value be for 3-phase AC motor at 200/208 V rated value be for 3-phase AC motor at 200/208 V rated value be for 3-phase AC motor at 200/208 V rated value be for 3-phase AC motor at 200/208 V rated value be for 3-phase AC motor at 200/208 V rated value be for 3-phase AC motor at 200/208 V rated value be for 3-phase AC motor at 200/208 V rated value be for 3-phase AC motor at 200/208 V rated value be for 3-phase AC motor at 200/208 V rated value be for 3-phase AC motor at 200/208 V rated value be for 3-phase AC motor at 200/208 V rated value be for 3-phase AC motor at 200/208 V rated value be for 3-phase AC motor at 200/208 V rated value be for 3-phase AC motor at 200/208 V rated value be for 3-phase AC motor at 200/208 V rated value be for 3-phase AC motor at 200/208 V rated value be for 3-phase AC motor at 200/208 V rated value be for 3-phase AC motor at 400 V rated value be for 3-phase AC motor at 400 V rated value be for 3-phase AC motor at 400 V rated value be for 3-phase AC motor at 400 V rated value be for 3-phase AC motor at 400 V rated value be for 3-phase AC motor at 400 V rated value be for 3-phase AC motor at 400 V rated value be for 3-phase AC motor at 400 V rate		400 1 4
at AC at 500 V rated value at AC at 690 V rated value 7.5 kA operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value 50 kA at 400 V rated value 50 kA at 690 V rated value 44 kA response value current of instantaneous short-circuit trip unit UI/CSA ratings IIII-load current (FLA) for 3-phase AC motor at 480 V rated value 63 A at 690 V rated value 63 A at 690 V rated value 63 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value • for 3-phase AC motor — at 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 460/480 V rated value 5 hp — at 460/480 V rated value 50 hp — at 575/600 V rated value 60 hp Short-circuit protection product function short circuit trip magnetic mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
• 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 • at 800 V rated value • at 480 V rated value • at 63 A • at 600 V rated value • at 30 V rated value • at 30 V rated value • at 30 V rated value • for single-phase AC motor — at 110/120 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 575/600 V rated value • 50 hp — at 575/600 V rated value • 60 hp Short-circuit protection product function short circuit protection Action of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position any fastening method		
e at 240 V rated value 50 kA 500 V rated value 41 kBA 50 kA 50 kA 500 V rated value 50 kA 500 V rated value 50 kA 500 V rated value 50 kBA 500 V rated value 63 A 500 V rated value 63 A 500 V rated value 50 kBA 500 V rated value 60 kB 500 V rated value 60		
at 240 V rated value at 400 V rated value at 400 V rated value at 50 kA 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 at 480 V rated value for single-phase AC motor - at 100 V rated value for single-phase AC motor - at 110/120 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 25 hp - at 220/230 V rated value 50 hp - at 275/600 V rated value 60 hp Short-circuit protection product function short circuit protection response value va		7.5 kA
at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value 4 kA response value current of instantaneous short-circuit trip unit 819 A ***UL/CSA ratings** ***ULI/CSA ratings** ***UII-load current (FLA) for 3-phase AC motor at 480 V rated value 63 A at 600 V rated value 63 A ***Idli-load current (FLA) for 3-phase AC motor		
at 500 V rated value at 690 V rated value 4 kA response value current of instantaneous short-circuit trip unit 819 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value bfor single-phase AC motor - at 110/120 V rated value - at 200 / vated value for 3-phase AC motor - at 200/208 V rated value - at 200/208 V rated value - at 200/200 V rated value - at 460/400 V rated value - at 575/600 V rat		
• at 690 V rated value response value current of instantaneous short-circuit trip unit ### Stip A ### S		
response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor		
full-load current (FLA) for 3-phase AC motor at 480 V rated value 63 A at 600 V rated value 63 A yielded mechanical performance [hp] for single-phase AC motor - at 110/120 V rated value 5 hp - at 230 V rated value 15 hp for 3-phase AC motor - at 200/208 V rated value 15 hp for 3-phase AC motor - at 200/208 V rated value 5 hp 60 hp - at 220/230 V rated value 50 hp - at 460/480 V rated value 60 hp Short-circuit protection product function short circuit protection product function short circuit protection design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position fastening method at 480 V rated value 63 A 63 A 63 A 64 A 65 A 65 A 66 A 67 A 68 A 69 A 60 A		
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 • for 3-phase AC motor — 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 575/600 V rated	· · · · · · · · · · · · · · · · · · ·	819 A
 at 480 V rated value 63 A at 600 V rated value 63 A yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value 5 hp — at 230 V rated value 15 hp for 3-phase AC motor — at 200/208 V rated value 20 hp — at 220/230 V rated value 25 hp — at 460/480 V rated value 50 hp — at 575/600 V rated value 60 hp Short-circuit protection product function short circuit protection yes design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 		
at 600 V rated value in for single-phase AC motor	. , .	
yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value 5 hp • for 3-phase AC motor — at 200/208 V rated value 20 hp — at 220/230 V rated value 25 hp — at 460/480 V rated value 50 hp — at 575/600 V rated value 50 hp Short-circuit protection product function short circuit protection design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position any fastening method 5 hp 15 hp 20 hp 25 hp 60 hp 7 es magnetic		
for single-phase AC motor — at 110/120 V rated value		63 A
- at 110/120 V rated value 5 hp - at 230 V rated value 15 hp • for 3-phase AC motor - at 200/208 V rated value 20 hp - at 220/230 V rated value 55 hp - at 460/480 V rated value 50 hp - at 575/600 V rated value 60 hp Short-circuit protection product function short circuit protection Yes design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
- at 230 V rated value • for 3-phase AC motor - at 200/208 V rated value 20 hp - at 220/230 V rated value 25 hp - at 460/480 V rated value 50 hp - at 575/600 V rated value 60 hp Short-circuit protection product function short circuit protection design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position any fastening method 15 hp 15 hp 16 hp 20 hp 20 hp 40 hp 50 hp 60 hp Yes anguetic	.	
for 3-phase AC motor — at 200/208 V rated value		
- at 200/208 V rated value 25 hp - at 220/230 V rated value 50 hp - at 460/480 V rated value 50 hp - at 575/600 V rated value 60 hp Short-circuit protection product function short circuit protection Yes design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		15 hp
- at 220/230 V rated value 25 hp - at 460/480 V rated value 50 hp - at 575/600 V rated value 60 hp Short-circuit protection product function short circuit protection Yes design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	·	
- at 460/480 V rated value 50 hp - at 575/600 V rated value 60 hp Short-circuit protection product function short circuit protection Yes design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
— at 575/600 V rated value 60 hp Short-circuit protection product function short circuit protection Yes design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method Yes magnetic any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method Yes magnetic magnetic any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		60 hp
design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	Short-circuit protection	
Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	<u> </u>	Yes
mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		magnetic
fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	Installation/ mounting/ dimensions	
	mounting position	any
height 165 mm	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
	height	165 mm

width	70 mm	
depth	176 mm	
required spacing		
with side-by-side mounting at the side	0 mm	
for grounded parts at 400 V		
— downwards	70 mm	
— upwards	70 mm	
— at the side	10 mm	
• for live parts at 400 V	10 11111	
— downwards	70 mm	
— upwards	70 mm	
— at the side	10 mm	
• for grounded parts at 500 V	10 11111	
— downwards	110 mm	
— upwards	110 mm	
— at the side	10 mm	
• for live parts at 500 V	10 111111	
— downwards	110 mm	
— upwards	110 mm	
— upwards — at the side	10 mm	
at the sidefor grounded parts at 690 V	10 mill	
— downwards	150 mm	
	150 mm	
— upwards — backwards	150 mm 0 mm	
— at the side	30 mm	
— forwards	0 mm	
• for live parts at 690 V	450	
— downwards	150 mm	
— upwards	150 mm	
— backwards	0 mm	
— at the side	30 mm	
— forwards	0 mm	
Connections/ Terminals		
type of electrical connection		
for main current circuit arrangement of electrical connectors for main current circuit	screw-type terminals Top and bottom	
type of connectable conductor cross-sections		
• for main contacts		
— solid	2x (2.5 16 mm²)	
— solid — solid or stranded	2x (2,5 50 mm²), 1x (10 70 mm²)	
finely stranded with core end processing	2x (2.5 35 mm²), 1x (10 75 mm²)	
— finely stranded with core end processing — finely stranded without core end processing	2x (2.5 35 mm²), 1x (2.5 50 mm²)	
tightening torque	2. (10 00 Hilli); 1x (10 00 Hilli)	
for main contacts for ring cable lug	4.5 6 N·m	
outer diameter of the usable ring cable lug maximum	19 mm	
tightening torque	10 111111	
for main contacts with screw-type terminals	4.5 6 N·m	
Safety related data		
product function suitable for safety function	Yes	
suitability for use		
safety-related switching on	No	
safety-related switching OFF	Yes	
service life maximum	10 a	
test wear-related service life necessary	Yes	
proportion of dangerous failures		
with low demand rate according to SN 31920	40 %	
with high demand rate according to SN 31920	50 %	
B10 value with high demand rate according to SN 31920	5 000	
failure rate [FIT] with low demand rate according to SN	50 FIT	
31920		

ISO 13849		
device type according to ISO 13849-1	3	
overdimensioning according to ISO 13849-2 necessary	Yes	
IEC 61508		
safety device type according to IEC 61508-2	Type A	
T1 value		
 for proof test interval or service life according to IEC 61508 	10 a	
Electrical Safety		
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		
display version for switching status	Handle	
Approvals Certificates		
General Product Approval		



Confirmation







<u>KC</u>

General Product Approval

Test Certificates

Marine / Shipping



Type Test Certificates/Test Report

Special Test Certific-<u>ate</u>







Marine / Shipping







Confirmation

other

Miscellaneous



Railway

Environment

Special Test Certificate

Confirmation







Environmental Confirmations

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=3RV2342-4JC10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2342-4JC10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2342-4JC10

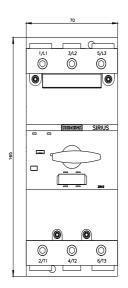
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

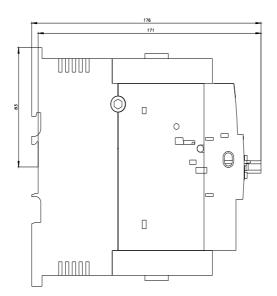
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2342-4JC10&lang=en

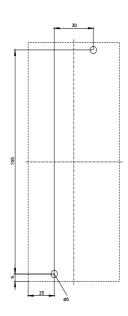
Characteristic: Tripping characteristics, I2t, Let-through current

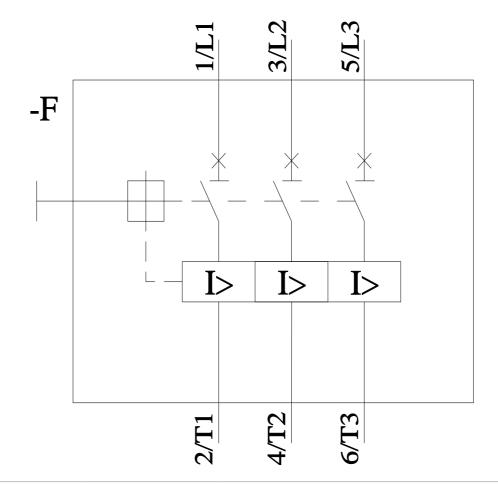
https://support.industry.siemens.com/cs/ww/en/ps/3RV2342-4JC10/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2342-4JC10&objecttype=14&gridview=view1









last modified:

11/6/2024

-	-	1JC10
Page	6/6	