SIEMENS

Data sheet

3RU2116-0GB0



Overload relay 0.45...0.63 A Thermal For motor protection Size S00, Class 10 Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

product of signation SiNUs product of signation 3RU2 General technical data 500 size of overlade relay 500 size of overlade relay 500 power loss [W] for rated value of the current at AC in hot operating state 4.8 W • per pole 1.6 W insulation valuege with degree of pollution 3 at AC rated value 66V surge voltage resistance rated value 64V • in networks with ungrounded star point between auxilary and auxillary circuit 440 V • in networks with ungrounded star point between main and auxillary circuit 440 V • in networks with grounded star point between main and auxillary circuit 440 V • in networks with grounded star point between main and auxillary circuit 440 V • in networks with grounded star point between main and auxillary circuit 440 V • in networks with grounded star point between main and auxillary circuit 560 - 7499-92-1 Weight 0.157 kg Ambient conditions -70 - 70 ° 6 induring peration -55 - 480 ° C • during storage -55 - 480 ° C relatve humidity during operation -60 - 70 ° 6 <th></th> <th></th>		
product type designation 3RU2 Central technical data	product brand name	SIRIUS
General lexibilities S00 size of overload relay S00 size of contactor can be combined company-specific S00 power loss [W] for rated value of the current at AC in hot operating state 4.8 W • per pole 1.6 W insulation voltage with degree of pollution 3 at AC rated value 690 V surger voltage resistance rated value 64V • in networks with ungrounded star point between auxiliary and auxiliary circuit 440 V • in networks with grounded star point between auxiliary and auxiliary circuit 440 V • in networks with grounded star point between main and auxiliary circuit 440 V • on petworks with grounded star point between main and auxiliary circuit 440 V • on petworks with grounded star point between main and auxiliary circuit 440 V • on petworks with grounded star point between main and auxiliary circuit 440 V • on petworks with grounded star point between main and auxiliary circuit 440 V • on petworks with grounded star point between main and auxiliary circuit 440 V • outrig to reside according to IEC 63068-2-27 Bg / 11 ms reference code according to IEC 63068-2-27 Bg / 10 ms Substance Prohibitance (Date)		
size of overload relay S00 size of contactor can be combined company-specific S00 power toss (W) for rated value of the current at AC in hot operating state 4.8 W • per pole 1.6 W insulation values with degree of pollution 3 at AC rated value 680 V surge voltage resistance rated value 64V maximum permissible voltage for protective separation 64V • in networks with ungrounded star point between auxiliary and auxiliary circuit 440 V • in networks with ungrounded star point between auxiliary and auxiliary circuit 440 V • in networks with ungrounded star point between main and auxiliary circuit 440 V • in networks with ungrounded star point between main and auxiliary circuit 440 V shock resistance according to IEC 60068-2:27 8g / 11 ms reference code according to IEC 61346-2 F Substance Prohibitance (Date) 10/01/2009 SWHC substance name Lead - 7439-92-1 Weight 0.157 kg Anabient temperature -40 +70 °C • Uuring operation -40 +70 °C • Uuring operation -40 +60 °C • during torage -55 +80 °C <		3RU2
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SVHC substance name Lead - 7439-92-1 Weight 0.157 kg Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature - • during operation -40 +70 °C • during storage -55 +80 °C • during transport -55 +80 °C temperature compensation -40 +60 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- 0.45 0.63 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 690 V • operating frequency rated value 690 V	reference code according to IEC 81346-2	F
Weight 0.157 kg Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature 2 000 m o during operation -40 +70 °C • during storage -55 +80 °C • during transport -55 +80 °C temperature compensation -40 +60 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 0.45 0.63 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 690 V • operating frequency rated value 50 60 Hz	Substance Prohibitance (Date)	10/01/2009
Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature -40 +70 °C • during operation -40 +70 °C • during storage -55 +80 °C • during transport -55 +80 °C temperature compensation -40 +60 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 0.45 0.63 A operating voltage 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz	SVHC substance name	Lead - 7439-92-1
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• during storage -55 +80 °C • during transport -55 +80 °C • temperature compensation -40 +60 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 0.45 0.63 A operating voltage 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz	ambient temperature	
• during transport -55 +80 °C temperature compensation -40 +60 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 0.45 0.63 A operating voltage 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz	during operation	-40 +70 °C
temperature compensation -40 +60 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 0.45 0.63 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz	during storage	-55 +80 °C
relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 0.45 0.63 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz	during transport	-55 +80 °C
Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 0.45 0.63 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz	temperature compensation	-40 +60 °C
number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 0.45 0.63 A operating voltage rated value 690 V at AC-3e rated value maximum 690 V 690 V 690 V 690 V operating frequency rated value 50 60 Hz	relative humidity during operation	10 95 %
adjustable current response value current of the current- 0.45 0.63 A operating voltage • rated value 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz	Main circuit	
dependent overload release operating voltage • rated value • at AC-3e rated value maximum 690 V • operating frequency rated value 50 60 Hz	number of poles for main current circuit	3
• rated value 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz		0.45 0.63 A
• at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz	operating voltage	
operating frequency rated value 50 60 Hz	rated value	690 V
	 at AC-3e rated value maximum 	690 V
operational current rated value 0.63 A	operating frequency rated value	50 60 Hz
	operational current rated value	0.63 A

operational current at AC-3e at 400 V rated value	0.63 A
operating power	
• at AC-3	
— at 400 V rated value	0.18 kW
— at 500 V rated value	0.18 kW
— at 690 V rated value	0.25 kW
• at AC-3e	
— at 400 V rated value	0.18 kW
— at 500 V rated value	0.18 kW
— at 690 V rated value	0.25 kW
Auxiliary circuit	
design of the auxiliary switch	integrated
number of NC contacts for auxiliary contacts	1
note	for contactor disconnection
number of NO contacts for auxiliary contacts	
note	for message "Tripped"
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
• at 24 V	3 A
• at 110 V	3 A
• at 120 V	3 A
• at 125 V	3 A
• at 230 V	2 A
• at 400 V	1 A
• at 690 V	0.75 A
operational current of auxiliary contacts at DC-13	
• at 24 V	2 A
• at 60 V	0.3 A
● at 110 V	0.22 A
1405.14	0.22 A
• at 125 V	0.22 A
• at 125 V • at 220 V	0.11 A
• at 220 V	0.11 A
• at 220 V contact rating of auxiliary contacts according to UL	0.11 A
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions	0.11 A B600 / R300
• at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class	0.11 A B600 / R300 CLASS 10
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release	0.11 A B600 / R300 CLASS 10
tat 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings	0.11 A B600 / R300 CLASS 10
tat 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	0.11 A B600 / R300 CLASS 10 thermal
• at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value	0.11 A B600 / R300 CLASS 10 thermal
tat 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value Short-circuit protection	0.11 A B600 / R300 CLASS 10 thermal
tat 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value short-circuit protection design of the fuse link	0.11 A B600 / R300 CLASS 10 thermal 0.6 A 0.6 A
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	0.11 A B600 / R300 CLASS 10 thermal
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value Short-circuit protection design of the fuse link ofor short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	0.11 A B600 / R300 CLASS 10 thermal 0.6 A 0.6 A fuse gG: 6 A, quick: 10 A
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value Short-circuit protection design of the fuse link ofor short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position	0.11 A B600 / R300 CLASS 10 thermal 0.6 A 0.6 A fuse gG: 6 A, quick: 10 A any
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value btort-circuit protection design of the fuse link of r short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method	0.11 A B600 / R300 CLASS 10 thermal 0.6 A 0.6 A fuse gG: 6 A, quick: 10 A any Contactor mounting
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value Short-circuit protection design of the fuse link ofor short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height	0.11 A B600 / R300 CLASS 10 thermal 0.6 A 0.6 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value Short-circuit protection design of the fuse link o for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width	0.11 A B600 / R300 CLASS 10 thermal 0.6 A 0.6 A 0.6 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm
 at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 600 V rated value at 600 V rated value stort-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth 	0.11 A B600 / R300 CLASS 10 thermal 0.6 A 0.6 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm
tat 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release 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 Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth 	0.11 A B600 / R300 CLASS 10 thermal 0.6 A 0.6 A 10.6 A
tat 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release 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 Short-circuit protection design of the fuse link 	0.11 A B600 / R300 CLASS 10 thermal 0.6 A 0.6 A 0.6 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value bat 600 V rated value Short-circuit protection design of the fuse link ofor short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and	0.11 A B600 / R300 CLASS 10 thermal 0.6 A 0.6 A 10.6 A
tat 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release 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 Short-circuit protection design of the fuse link 	0.11 A B600 / R300 CLASS 10 thermal 0.6 A 0.6 A 10.6 A
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value bort-circuit protection design of the fuse link ofor short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection	0.11 A B600 / R300 CLASS 10 thermal 0.6 A 0.6 A 0.6 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release 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 Short-circuit protection design of the fuse link o for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection of remain current circuit	0.11 A B600 / R300 CLASS 10 thermal 0.6 A 0.6 A 0.6 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value Short-circuit protection design of the fuse link ofor short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection of ra auxiliary and control circuit arrangement of electrical connectors for main current	0.11 A B600 / R300 CLASS 10 thermal 0.6 A 0.6 A 0.6 A fuse gG: 6 A, quick: 10 A fuse gG: 6 A, quick: 10 A contactor mounting 76 mm 45 mm 70 mm No
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release 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 Short-circuit protection design of the fuse link of or short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection of rauxiliary and control circuit arrangement of electrical connectors for main current circuit	0.11 A B600 / R300 CLASS 10 thermal 0.6 A 0.6 A 0.6 A fuse gG: 6 A, quick: 10 A fuse gG: 6 A, quick: 10 A contactor mounting 76 mm 45 mm 70 mm No
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release 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 Short-circuit protection design of the fuse link o for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection o for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	0.11 A B600 / R300 CLASS 10 thermal 0.6 A 0.6 A 0.6 A fuse gG: 6 A, quick: 10 A fuse gG: 6 A, quick: 10 A contactor mounting 76 mm 45 mm 70 mm No
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value Short-circuit protection design of the fuse link 	0.11 A B600 / R300 CLASS 10 thermal 0.6 A 0.6 A 0.6 A 0.6 A 0.6 A 0.6 A 0.6 A 0.6 A 0.6 A 0.7 Contactor mounting 76 mm 45 mm 70 mm No No Screw-type terminals screw-type terminals Top and bottom
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value Short-circuit protection design of the fuse link 	0.11 A B600 / R300 CLASS 10 thermal 0.6 A 0.6 A 0.6 A 0.6 A 0.6 A 10

	onductor cross-section	S			
 for auxiliary cont — solid or stra 			2x (0.5 1.5 mm²), 2x (0.75	2.5 mm^{2}	
 — solid of stranded — finely stranded with core end processing 			<i>,</i>		
		sing	2x (0.5 1.5 mm ²), 2x (0.75	2.5 mm²)	
	for auxiliary contacts		2x (20 16), 2x (18 14)		
tightening torque	s with corow type terminal	le	0.8 1.2 N·m		
	s with screw-type terminal		0.8 1.2 N·m		
design of screwdrive	acts with screw-type term		Diameter 5 6 mm		
size of the screwdrive			Pozidriv PZ 2		
	of the connection screw				
for main contacts			M3		
	nd control contacts		M3		
afety related data					
failure rate [FIT] with low demand rate according to SN 31920 MTTF with high demand rate		50 FIT			
		2 280 a			
IEC 61508					
T1 value					
 for proof test inte 61508 	erval or service life accord	ling to IEC	20 a		
Electrical Safety					
protection class IP or	the front according to	IEC 60529	IP20		
	he front according to IE	C 60529	finger-safe, for vertical contac	ct from the front	
Display					
display version for swit	ching status		Slide switch		
General Product App	roval CE	<u>Confirmatic</u>	^m	٩	EAC
	roval CE EG-Konf.	<u>Confirmatio</u>		(U) u	EAC
General Product App	CE EG-Konf.	<u>Confirmatio</u> Test Certificat		UL Marine / Shipping	EAC
General Product App	CE EG-Konf.		es tific- Special Test Certific-	Marine / Shipping	ERC Bureau Veritas
General Product App UK CA For use in hazardous	CE EG-Konf.	Test Certificat	es tific- Special Test Certific-	Warine / Shipping	EFFE EFFE
General Product App UK CA For use in hazardous	CE EG-Konf.	Test Certificat	es tific- Special Test Certific-	Marine / Shipping	Image: Content of the con
General Product App UK For use in hazardous ECEx Marine / Shipping	EG-Konf.	Test Certificat	es tific- Special Test Certific-	UL Marine / Shipping Official Shipping ABS	
General Product App UK For use in hazardous IECEx Marine / Shipping	Iocations EG-Konf.	Test Certificate	es tific- Special Test Certific-	Marine / Shipping Image: Constraint of the second	

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2116-0GB0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-0GB0

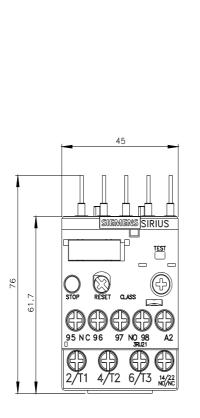
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2116-0GB0&lang=en

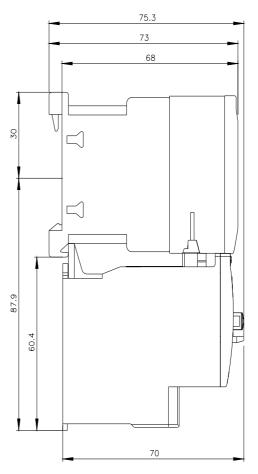
Characteristic: Tripping characteristics, I²t, Let-through current

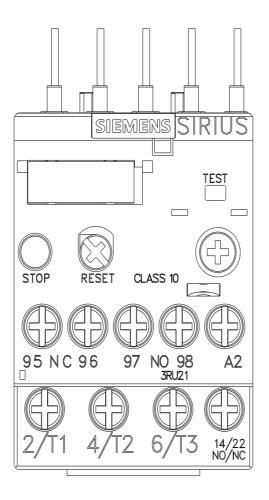
https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-0GB0/char

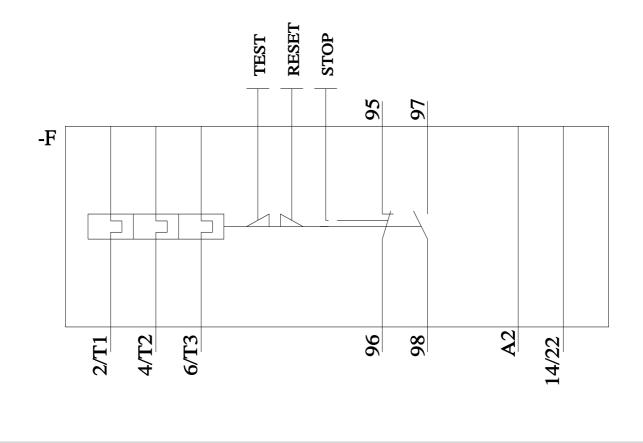
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-0GB0&objecttype=14&gridview=view1









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4/5/2024 🖸