SIEMENS

Data sheet

3RU2116-1EB0



Overload relay 2.8...4.0 A Thermal For motor protection Size S00, Class 10 Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

product brand name SIRUS product designation thermal overload relay product type designation 3RU2 General technical data 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 5.7 W • per pole 1.9 W insulation voltage with degree of pollution 3 at AC rated value 680 V surge voltage resistance rated value 6 kV maximum permissible voltage for protective separation 440 V • in networks with ungrounded star point between auxiliary and auxiliary circuit 440 V • in networks with grounded star point between main and auxiliary circuit 440 V • in networks with grounded star point between main and auxiliary circuit 440 V • in networks with grounded 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 81346-2 F Substance Prohibitance (Date) 10/01/2009 SVHC substance name Lead -7439-92-1 Weight 0.15 kg Ambient conditions 40 +70 °C	
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Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature -40 +70 °C • during storage -55 +80 °C	
installation altitude at height above sea level maximum 2 000 m ambient temperature -40 +70 °C • during storage -55 +80 °C	
ambient temperature • during operation • during storage -55 +80 °C	
 during operation during storage -40 +70 °C -55 +80 °C 	
• during storage -55 +80 °C	
• during transport -55 +80 °C	
temperature compensation -40 +60 °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 2.8 4 A	
operating voltage	
• rated value 690 V	
• at AC-3e rated value maximum 690 V	
operating frequency rated value 50 60 Hz	
operational current rated value 4 A	

operational current at AC-3e at 400 V rated value	4 A
operating power	
• at AC-3	
• at AC-3 — at 400 V rated value	1.5 kW
— at 500 V rated value	2.2 kW
— at 690 V rated value	3 kW
• at AC-3e	
— at 400 V rated value	1.5 kW
— at 500 V rated value	2.2 kW
— at 690 V rated value	3 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	1
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
• at 125 V	0.22 A
	0.11 A
• at 220 V	0.11 A B600 / R300
• at 220 V contact rating of auxiliary contacts according to UL	0.11 A B600 / R300
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions	
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class	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	B600 / R300
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	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 UL/CSA ratings full-load current (FLA) for 3-phase AC motor	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	B600 / R300 CLASS 10 thermal 4 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	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	B600 / R300 CLASS 10 thermal 4 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	B600 / R300 CLASS 10 thermal 4 A 4 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 or short-circuit protection of the auxiliary switch required	B600 / R300 CLASS 10 thermal 4 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 o for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	B600 / R300 CLASS 10 thermal 4 A 4 A 4 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	B600 / R300 CLASS 10 thermal 4 A 4 A 4 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 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	B600 / R300 CLASS 10 thermal 4 A 4 A 4 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 o for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height	B600 / R300 CLASS 10 thermal 4 A 4 A 4 A 7 Inse 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 bat of 00 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	B600 / R300 CLASS 10 thermal 4 A 4 A 4 A 7 A 7 fuse gG: 6 A, quick: 10 A 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 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 	B600 / R300 CLASS 10 thermal 4 A 4 A 4 A 7 Inse 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 bat of 00 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	B600 / R300 CLASS 10 thermal 4 A 4 A 4 A 7 A 7 fuse gG: 6 A, quick: 10 A 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 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 	B600 / R300 CLASS 10 thermal 4 A 4 A 4 A 7 A 7 fuse gG: 6 A, quick: 10 A Contactor mounting 76 mm 45 mm
	B600 / R300 CLASS 10 thermal 4 A 4 A 4 A 4 A 1 M fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm
	B600 / R300 CLASS 10 thermal 4 A 4 A 4 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 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 control circuit type of electrical connection	B600 / R300 CLASS 10 thermal 4 A 4 A 4 A 4 A 7 use gG: 6 A, quick: 10 A any 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 of remain current circuit	B600 / R300 CLASS 10 thermal 4 A 4 A 4 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm No 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 	B600 / R300 CLASS 10 thermal 4 A 4 A 4 A 4 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm No 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 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 ofor main current circuit arrangement of electrical connectors for main current circuit	B600 / R300 CLASS 10 thermal 4 A 4 A 4 A 4 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm No 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	B600 / R300 CLASS 10 thermal 4 A 4 A 4 A 4 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm No 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 	B600 / R300 CLASS 10 thermal 4 A 4 A 4 A 4 A 4 A 4 A 9 G: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm No screw-type terminals screw-type terminals Top and bottom 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
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 	B600 / R300 CLASS 10 thermal 4 A 4 A 4 A 4 A 4 A 4 A 4 A 9 G: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm No screw-type terminals screw-type terminals Top and bottom

 ype of connectable conduct for auxiliary contacts 	tor cross-sectior	IS				
 for auxiliary contacts 						
-						
 — solid or stranded 			2x (0.5	5 1.5 mm²), 2x (0.75	2.5 mm²)	
 finely stranded wit 	h core end proces	sing	2x (0.5	5 1.5 mm²), 2x (0.75	2.5 mm²)	
 for AWG cables for auxi 	iliary contacts		2x (20	16), 2x (18 14)		
ightening torque						
 for main contacts with s 	crew-type termina	als	0.8 ?	1.2 N·m		
 for auxiliary contacts with 	th screw-type tern	ninals	0.8 ?	1.2 N·m		
design of screwdriver shaft			Diame	ter 5 6 mm		
size of the screwdriver tip			Pozidri	iv PZ 2		
design of the thread of the c	connection screw	1				
 for main contacts 			M3			
 of the auxiliary and cont 	trol contacts		M3			
ifety related data						
failure rate [FIT] with low demand rate according to SN 31920		50 FIT				
MTTF with high demand rate	Ð		2 280 a	а		
EC 61508						
Γ1 value						
 for proof test interval or 61508 	service life accord	ding to IEC	20 a			
Electrical Safety						
protection class IP on the fro			IP20			
ouch protection on the fron	t according to IE	C 60529	finger-s	safe, for vertical conta	ct from the front	
splay			_			
display version for switching st						
display version for switching stopprovals Certificates						
oprovals Certificates General Product Approval)))	Confirmation	ጫ	FAL
oprovals Certificates General Product Approval	UK CA	CCC)	Confirmation	(U) UL	EAC
General Product Approval	UK CA	ccc)	Confirmation Test Certificates	UL	ERE Marine / Shipping
General Product Approval	UK CA	Ccc))))))		UL UL Special Test Certific- ate	EFFE Marine / Shipping
General Product Approval	UK CA ons	Miscellaneo) DUS	Test Certificates		EFFC Marine / Shipping
General Product Approval General Product Approval EG-Konf. For use in hazardous locatio	UK CA ons	Miscellaneo		Test Certificates		ERFC Marine / Shipping
General Product Approval General Product Approval EG-Konf. For use in hazardous locatio EG-Konf. Marine / Shipping	UK ons ECEX ECEX	Hoyds Register) DUS	Test Certificates		ERE Marine / Shipping
General Product Approval General Product Approval CEGE EG-Konf, For use in hazardous location CEGE ATEX Marine / Shipping	UK ons ECEX ECEX	Lloyds Register urs		Test Certificates Type Test Certificates ates/Test Report		ERC Marine / Shipping
Oprovals Certificates General Product Approval For use in hazardous location Marine / Shipping Other Miscellaneous Inther information Information on the packagin	UKA ons ECEX ECEX	Railway Special Test Ce ate		Test Certificates Type Test Certificates ates/Test Report	ate	ERE Marine / Shipping
Arther information on the packagin	UKA ons ECCEX IECEX	Railway Special Test Ce ate		Test Certificates Type Test Certificates ates/Test Report	ate	ERE Marine / Shipping
Seneral Product Approval General Product Approval CEGE EG-Kont. For use in hazardous location CEGE Marine / Shipping Marine / Shipping UREAU VERITAS	Senter (Catalogs, pag system)	Railway Special Test Ce ate	ertific-	Test Certificates Type Test Certificates ates/Test Report Service Prs Environment Service Service	ate	EAC Marine / Shipping

Cax online generator

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

https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-1EB0

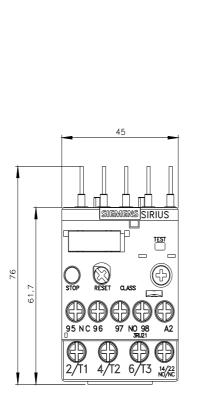
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2116-1EB0&lang=en

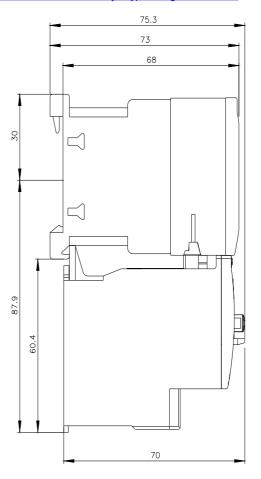
Characteristic: Tripping characteristics, I²t, Let-through current

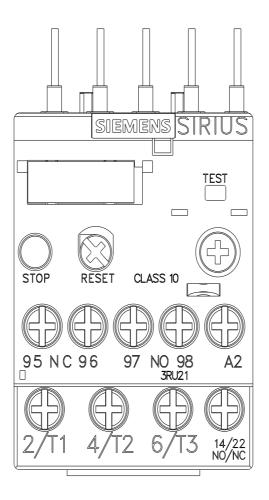
https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-1EB0/char

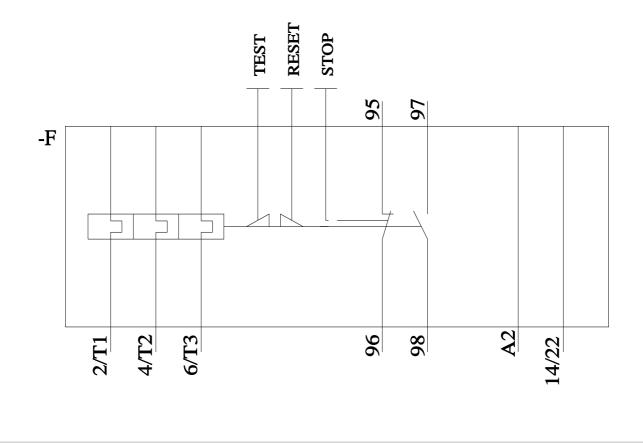
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-1EB0&objecttype=14&gridview=view1









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