SIEMENS

Data sheet

3RU2136-4AD0



Overload relay 11...16 A Thermal For motor protection Size S2, Class 10 Contactor mounting Main circuit: Screw Auxiliary circuit: spring-type terminal Manual-Automatic-Reset

product brand name	SIRIUS
product designation	thermal overload relay
product type designation	3RU2
General technical data	
size of overload relay	S2
size of contactor can be combined company-specific	S2
power loss [W] for rated value of the current at AC in hot operating state	10.5 W
• per pole	3.5 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation in networks with grounded star point	
 between auxiliary and auxiliary circuit 	415 V
 between auxiliary and auxiliary circuit 	415 V
 between main and auxiliary circuit 	690 V
 between main and auxiliary circuit 	690 V
shock resistance according to IEC 60068-2-27	8g / 11 ms
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
certificate of suitability according to ATEX directive 2014/34/EU	DMT 98 ATEX G 001
reference code according to IEC 81346-2	F
Substance Prohibitance (Date)	10/15/2014
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	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	11 16 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	16 A
operational current at AC-3e at 400 V rated value	16 A
operating power	

● at AC-3					
	7.5 KW				
— at 400 V rated value	7.5 kW				
— at 500 V rated value	7.5 kW				
— at 690 V rated value	11 kW				
• at AC-3e					
— at 400 V rated value	7.5 kW				
— at 500 V rated value	7.5 kW				
— at 690 V rated value	11 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				
• at 220 V	0.11 A				
design of the miniature circuit breaker for short-circuit protection	6A (SCC less than equal to 0.5 kA; U less than equal to 260V)				
of the auxiliary switch required					
contact rating of auxiliary contacts according to UL	B600 / R300				
	B600 / R300				
contact rating of auxiliary contacts according to UL	B600 / R300 CLASS 10				
contact rating of auxiliary contacts according to UL Protective and monitoring functions					
contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class	CLASS 10				
contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release	CLASS 10				
contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings	CLASS 10				
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	CLASS 10 thermal				
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	CLASS 10 thermal 16 A				
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	CLASS 10 thermal 16 A				
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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	CLASS 10 thermal 16 A 16 A				
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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	CLASS 10 thermal 16 A 16 A 16 A 16 A 16 A 16 A 16 A 16 A				
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type of connectable cond	uctor cross-sectio	ns					
 for auxiliary contacts 							
— solid or stranded			2x (0.5 2.5 m	nm²)			
 finely stranded with core end processing 			2x (0.5 1.5 m	nm²)			
 finely stranded without core end processing 		2x (0.5 2.5 m	nm²)				
 for AWG cables for auxiliary contacts 		2x (20 14)					
tightening torque							
 for main contacts with screw-type terminals 			3 4.5 N·m				
design of screwdriver shaft		Diameter 5 6 mm					
size of the screwdriver tip		Pozidriv PZ 2					
design of the thread of the connection screw							
for main contacts			M6				
afety related data							
T1 value for proof test interval or service life according to IEC 61508			20 a				
protection class IP on the	front according to	DIEC 60529	IP20				
touch protection on the fi	ont according to I	EC 60529	finger-safe, for	vertical contact	from the front		
isplay							
display version for switching	g status		Slide switch				
ertificates/ approvals							
General Product Approva	al				For use in hazardous	locations	
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Marine / Shipping						other	
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Siemens has decided to e	wit the Russian m	arket (see horo)					
https://press.siemens.com/			<u>own-russian</u> -busin	<u>iess</u>			
Siemens is working on th Please contact your local S	e renewal of the cu	urrent EAC certification	ates.		d to import or offer to sup	olv these products to a	
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Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2136-4AD0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4AD0

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

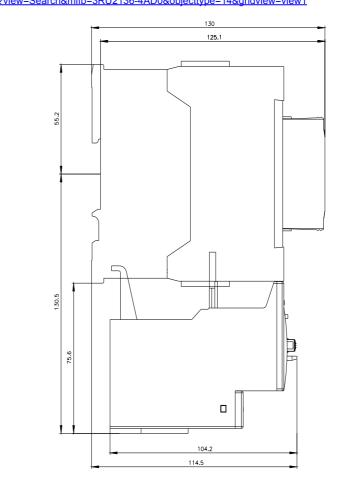
 http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2136-4AD0&lang=en

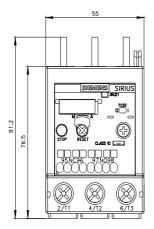
 Characteristic: Tripping characteristics, I²t, Let-through current

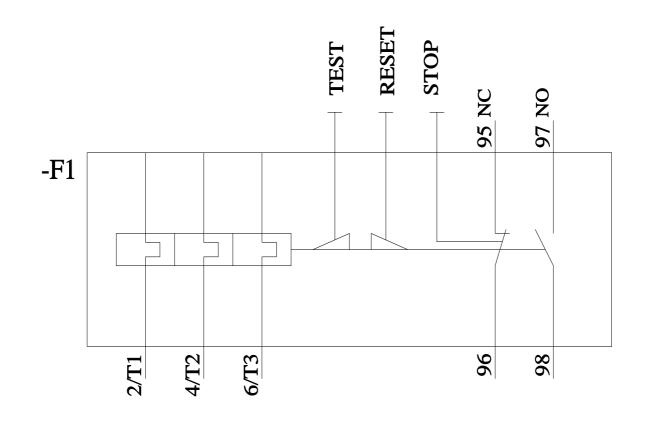
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 Further characteristics (e.g. electrical endurance, switching frequency)

 http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4AD0&objecttype=14&gridview=view1







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