SIEMENS

Data sheet

3RU2136-4EB1



Overload relay 22...32 A Thermal For motor protection Size S2, Class 10 Stand-alone installation Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

1/13				
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	13.8 W			
• per pole	4.6 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 safe isolation 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	22 32 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	32 A			
operational current at AC-3e at 400 V rated value	32 A			

operating power			
• at AC-3			
— at 400 V rated value	15 kW		
— at 500 V rated value	18.5 kW		
— at 690 V rated value	30 kW		
• at AC-3e			
— at 400 V rated value	15 kW		
— at 500 V rated value	18.5 kW		
— at 690 V rated value	30 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 of the auxiliary switch required	6A (SCC less than equal to 0.5 kA; U less than equal to 260V)		
	B600 / R300		
contact rating of auxiliary contacts according to UL	B600 / R300		
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			
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 32 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		
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	CLASS 10 thermal 32 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 Short-circuit protection design of the fuse link	CLASS 10 thermal 32 A 32 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 Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch	CLASS 10 thermal 32 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	CLASS 10 thermal 32 A 32 A 32 A fuse gG: 6 A, quick: 10 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	CLASS 10 thermal 32 A 32 A 32 A fuse gG: 6 A, quick: 10 A any stand-alone installation		
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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	CLASS 10 thermal 32 A 32 A 32 A 32 A any stand-alone installation 105 mm 55 mm 117 mm No Screw-type terminals screw-type terminals Top and bottom		

 at AWG cables tightening torque for main contact for auxiliary condesign of screwdrive size of the screwdrive design of the thread for main contact of the auxiliary Safety related data T1 value for proof test IEC 61508 	randed nded with core end process of or auxiliary contacts cts with screw-type terminal ntacts with screw-type term rer shaft ver tip d of the connection screw	sing 2x 2x s 3 inals 0. Di Po M M M	3) a			
60529	the front according to IE		IP20			
Display			ger-safe, for vertical conta			
display version for sw	vitching status	SI	ide switch			
Certificates/ approva	ls					
General Product Ap	oproval				For use in hazard- ous locations	
(SP)	<u>Confirmation</u>		(U) UI	EHC	IECEx	
For use in hazard- ous locations	Declaration of Conform	nity	Test Certificates		Marine / Shipping	
K ATEX	EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	ABS	
Marine / Shipping						
BUREAU VERITAS		Lloyd's Register urs	PRS	RINA	RMRS	
other	Railway					
<u>Confirmation</u>	<u>Special Test Certific-</u> <u>ate</u>					

 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=3RU2136-4EB1

 Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2136-4EB1

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

https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4EB1

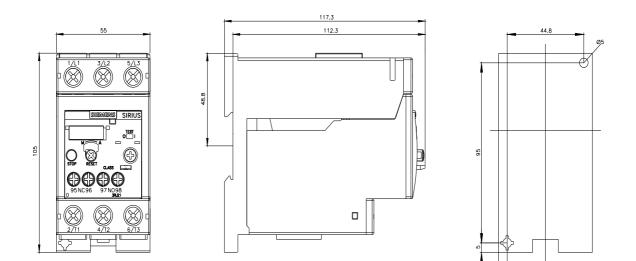
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2136-4EB1&lang=en

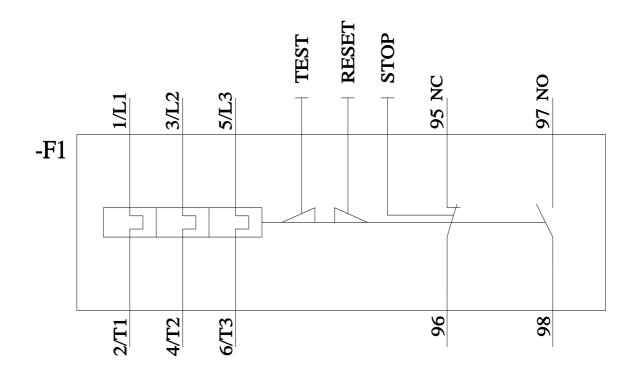
Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4EB1/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4EB1&objecttype=14&gridview=view1





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