SIEMENS

Data sheet

3RU2136-4GB1



Overload relay 36...45 A Thermal For motor protection Size S2, Class 10 Stand-alone installation Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

37.13				
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	15.6 W			
• per pole	5.2 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	36 45 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	45 A			
operational current at AC-3e at 400 V rated value	45 A			

operating power	
• at AC-3	
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	37 kW
• at AC-3e	00.1144
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	37 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 fer mensen "Tripped"
• 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	1A
• 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	B000 / R300
	B6007 R300
Protective and monitoring functions trip class	CLASS 10
Protective and monitoring functions	
Protective and monitoring functions trip class design of the overload release	CLASS 10
Protective and monitoring functions trip class design of the overload release UL/CSA ratings	CLASS 10
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
Protective and monitoring functions trip class design of the overload release UL/CSA ratings	CLASS 10 thermal 45 A
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
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 45 A
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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	CLASS 10 thermal 45 A 45 A 45 A fuse gG: 6 A, quick: 10 A any stand-alone installation
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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 Connections/ Terminals	CLASS 10 thermal 45 A 45 A fuse gG: 6 A, quick: 10 A any stand-alone installation 105 mm 55 mm 117 mm
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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 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit	CLASS 10 thermal 45 A 45 A 45 A fuse gG: 6 A, quick: 10 A any stand-alone installation 105 mm 55 mm 117 mm
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at AWG cables tightening torque ofor main contace ofor auxiliary con design of screwdrive size of the screwdrive design of the thread ofor main contace of the auxiliary Safety related data T1 value for proof tes IEC 61508 protection class IP of 60529 touch protection on	randed nded with core end processi for auxiliary contacts ets with screw-type terminals ntacts with screw-type termi er shaft ver tip of the connection screw	nals ording to	2x (0. 2x (20 3 4 0.8 Diam Pozid M6 M3 20 a IP20	5 1.5 mm²), 2x (0.7 5 1.5 mm²), 2x (0.7 0 16), 2x (18 14) 5 N·m . 1.2 N·m eter 5 6 mm Iriv PZ 2	5 2.5 mm²)	
Display						
display version for sw	-		Slide	switch		
Certificates/ approval	S					
General Product Ap	oproval					For use in hazard- ous locations
(S) M	CCC	Confirmation	n	(U) u	EHC	ATEX
For use in hazard- ous locations	Declaration of Conform	ity		Test Certificates		Marine / Shipping
IECEx	UK CA	CE EG-Konf.		<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	ABS
Marine / Shipping						
BUREAU VERITAS		Lloyd's Register uts		PRS	RINA	RMRS RMRS
other	Railway					
<u>Confirmation</u>	Special Test Certific- ate					

 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=3RU2136-4GB1

 Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2136-4GB1

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

https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4GB1

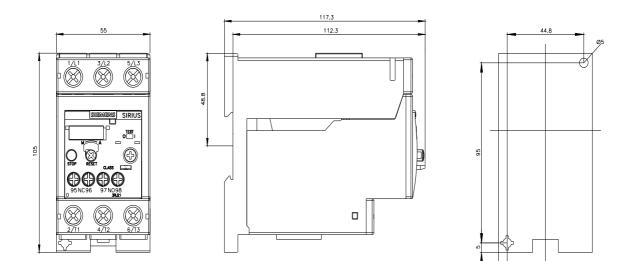
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2136-4GB1&lang=en

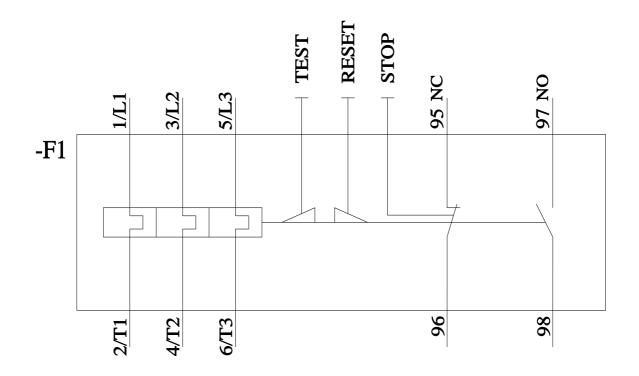
Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4GB1/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4GB1&objecttype=14&gridview=view1





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