SIEMENS

Data sheet

3RU2136-4KB1



Overload relay 62...73 A Thermal For motor protection Size S2, Class 10A Stand-alone installation Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

2013				
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	17.1 W			
• per pole	5.7 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	62 73 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	73 A			
operational current at AC-3e at 400 V rated value	73 A			

operating power			
• at AC-3			
— at 400 V rated value	37 kW		
— at 500 V rated value	45 kW		
— at 690 V rated value	55 kW		
• at AC-3e			
— at 400 V rated value	37 kW		
— at 500 V rated value	45 kW		
— at 690 V rated value	55 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 for managers "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 24 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)		
protection 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 10A		
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 10A		
contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings	CLASS 10A		
contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release	CLASS 10A		
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 10A 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 10A 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	CLASS 10A 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 10A 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 design of the fuse link	CLASS 10A thermal 73 A 73 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 10A thermal 73 A 73 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	CLASS 10A thermal 73 A 73 A 73 A fuse gG: 6 A, quick: 10 A any		
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	CLASS 10A thermal 73 A 73 A 73 A 73 A 73 A fuse gG: 6 A, quick: 10 A any stand-alone installation 105 mm 55 mm		
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 for auxiliary cor — solid or str 		2x	(0.5 1.5 mm²), 2x (0.7	5 2.5 mm²)			
- finely stranded with core end processing		-	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)				
at AWG cables for auxiliary contacts			2x (20 16), 2x (18 14)				
tightening torque			0 45Nm				
for main contacts with screw-type terminals			3 4.5 N·m				
 for auxiliary contacts with screw-type terminals 			0.8 1.2 N·m Diameter 5 6 mm				
design of screwdriver shaft size of the screwdriver tip			Pozidriv PZ 2				
design of the thread of the connection screw							
for main contacts		M6					
 of the auxiliary and control contacts 			M3				
Safety related data							
	t interval or service life acco	ording to 20	а				
protection class IP on the front according to IEC 60529			IP20				
	the front according to IEC	; 60529 fing	finger-safe, for vertical contact from the front				
Display							
display version for sw	-	Slic	de switch				
Certificates/ approval	ls						
General Product Ap	oproval				For use in hazard- ous locations		
(SP) Car	<u>Confirmation</u>			EHC	ATEX		
For use in hazard- ous locations	Declaration of Conform	ity	Test Certificates		Marine / Shipping		
IECE×	C C EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	ABS		
Marine / Shipping							
BUREAU VERITAS		Lloyd's Kegister uis	PRS	RINA	RMRS		
other	Railway						
Confirmation	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=3RU2136-4KB1

 Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2136-4KB1

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

https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4KB1

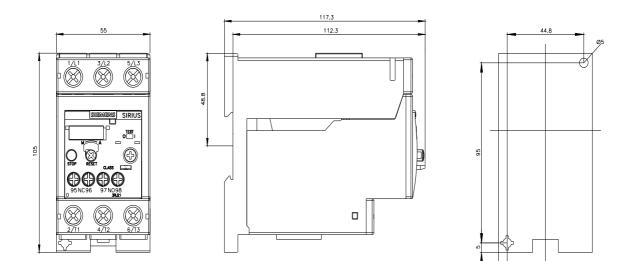
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2136-4KB1&lang=en

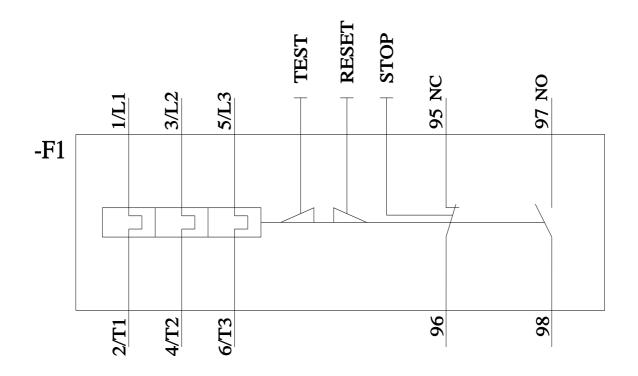
Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4KB1/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4KB1&objecttype=14&gridview=view1





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