SIEMENS

Data sheet

3RU2136-4HD1



Overload relay 40... 50 A Thermal For motor protection Size S2, Class 10 Standalone installation Main circuit: Screw Auxiliary circuit: spring-type terminal Manual-Automatic-Reset

product designation thermal overload relay product type designation 38U2 General technical data S2 size of contactor can be combined company-specific S2 operating state S2 operating state 52.W operating state 690 V surge voltage resistance rated value 690 V surge voltage resistance rated value 68V maximum permissible voltage for potective separation in relevorks with grounded star point 415 V • between auxiliary and auxiliary circuit 415 V • between main and auxiliary circuit 690 V • during to according to ATEX directive 2014/34/EU Ext II (2) GD Centificate of	and that has not a series	
product type designation 3RU2 General technical data	product brand name	SIRIUS
General tochnical data Size size of overload relay \$2 size of contactor can be combined company-specific \$2 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 64V • between auxiliary and auxiliary circuit 415 V • between naxiliary and auxiliary circuit 690 V • between main and auxiliary circuit 690 V • between auxiliary and to IEC 60368-227 8g /11 ms * type of protection secording to IEC 61346-2 F Substance Prohibitance (Date) 101/15/2014 Amblent conditions - reference codig storage -55 +80 °C • during storage -00		
size of overload relay S2 size of contactor can be combined company-specific S2 power loss [M] for rated value of the current at AC in hot operating side 15.6 W • per pole 5.2 W Insulation voltage with degree of pollution 3 at AC rated value 680 V surge voltage resistance rated value 64V maximum permissible voltage for protective separation in networks with grounded star point 415 V • between auxiliary and auxiliary circuit 415 V • between main and auxiliary circuit 690 V • between dia auxiliary circuit 690 V • between dia auxiliary circuit 690 V • between dia auxiliary circuit 52.1 (2) GD • curring to auxiliary directive 2014/34/EU Ex II (2) GD • curring to auxiliary directive 2014/34/EU Ex II (2) GD • during torage 55 +80 °C •		3RU2
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operating state 5.2 W insulation voltage with degree of pollution 3 at AC rated value 680 V surge voltage resistance rated value 680 V maximum permissible voltage for protective separation in retworks with grounded star point 6 kV • between auxiliary and auxiliary circuit 415 V • between auxiliary and auxiliary circuit 415 V • between main and auxiliary circuit 600 V shock resistance according to IEC 60068-2-27 8g / 11 ms type of protection according to IEC 60068-2-27 8g / 11 ms type of protection 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 IEC 8136-2 F Substance Prohibitance (Date) 10/15/2014 Ambient conditions 2 000 m ambient conditions 2 000 m auxiliary starge -55		S2
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surge voltage resistance rated value 6 kV maximum permissible voltage for protective separation in networks with grounded star point 415 V • between auxiliary and auxiliary circuit 415 V • between main and auxiliary circuit 600 V • between auxiliary and auxiliary circuit DNT 98 ATEX G 001 reference code according to ATEX directive 2014/34/EU DNT 98 ATEX G 001 reference code according to IEC 80368-2 F Substance Prohibitance (Date) 10/15/2014 Amblent conditions -40 +70 °C	• per pole	5.2 W
maximum permissible voltage for protective separation in networks with grounded star point between auxiliary and auxiliary circuit between main and auxiliary circuit between second protection according to ATEX directive 2014/34/EU EX II (2) GD certificate of suitability according to ATEX directive 2014/34/EU EX II (2) GD certificate of suitability according to ATEX directive 2014/34/EU Tefference code according to IEC 80345-2 F Substance Prohibitance (Date) 10/15/2014 Amblent conditions ambient temporature during torage <liduring li="" torage<=""> <liduring li="" torage<=""></liduring></liduring>	insulation voltage with degree of pollution 3 at AC rated value	690 V
networks with grounded star point Image: star in the star in t	surge voltage resistance rated value	6 kV
• between auxiliary oircuit 415 V • between main and auxiliary oircuit 690 V • between main and auxiliary oircuit 690 V shock resistance according to IEC 6008-2-27 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) 1015/2014 Ambient conditions 1 installation altitude at height above sea level maximum 2 000 m ambient temperature -40 +70 °C • during storage -55 +80 °C • during storage -55 +80 °C • temperature compensation -40 +70 °C • during transport -55 +80 °C • temperature compensation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 690 V • at AC-3e rated value maximum 690 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 2 000 m ambient temperature - • during operation -40 +70 °C • during storage -55 +80 °C • during transport -55 +80 °C • during transport -55 +80 °C • during operation -40 +60 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 690 V • at AC-3e rated value maximum 690 V • at AC-3e rated value 50 A operating frequency rated value 50 A operational current rated value 50 A	 between auxiliary and auxiliary circuit 	415 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 2 000 m ambient temperature -40 +70 °C • during operation -40 +70 °C • during transport -55 +80 °C • during transport -55 +80 °C temperature compensation 40 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 690 V • at AC-3e rated value 690 V • at AC-3e rated value 50 A operating frequency rated value 50 A	 between auxiliary and auxiliary circuit 	415 V
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• during storage-55 +80 °C• during transport-55 +80 °C• temperature compensation-40 +60 °Crelative humidity during operation10 95 %Main circuit3number of poles for main current circuit3adjustable current response value current of the current- dependent overload release40 50 Aoperating voltage690 V• at AC-3e rated value maximum690 Voperating frequency rated value50 60 Hzoperational current at AC-3e at 400 V rated value50 A	ambient temperature	
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temperature compensation-40 +60 °Crelative humidity during operation10 95 %Main circuit3number of poles for main current circuit3adjustable current response value current of the current- dependent overload release40 50 Aoperating voltage690 V• rated value690 V• at AC-3e rated value maximum690 Voperating frequency rated value50 60 Hzoperational current rated value50 Aoperational current at AC-3e at 400 V rated value50 A	during storage	-55 +80 °C
relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 40 50 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 50 A	during transport	-55 +80 °C
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number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 40 50 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 50 A operational current at AC-3e at 400 V rated value 50 A	relative humidity during operation	10 95 %
adjustable current response value current of the current- 40 50 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 50 A operational current at AC-3e at 400 V rated value 50 A	Main circuit	
dependent overload release Image: Comparing voltage operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 50 A operational current at AC-3e at 400 V rated value 50 A	number of poles for main current circuit	3
• rated value 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 50 A operational current at AC-3e at 400 V rated value 50 A		40 50 A
• at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 50 A operational current at AC-3e at 400 V rated value 50 A	operating voltage	
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operational current rated value 50 A operational current at AC-3e at 400 V rated value 50 A	 at AC-3e rated value maximum 	690 V
operational current at AC-3e at 400 V rated value 50 A	operating frequency rated value	50 60 Hz
·	operational current rated value	50 A
operating power	operational current at AC-3e at 400 V rated value	50 A
	operating power	

• at AC-3	22 kW
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	45 kW
• at AC-3e	
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	45 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
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 50 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 50 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 50 A 50 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	CLASS 10 thermal 50 A 50 A 50 A fuse gG: 6 A, quick: 10 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 required Installation/ mounting/ dimensions mounting position	CLASS 10 thermal 50 A 50 A 50 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	CLASS 10 thermal 50 A 50 A 50 A fuse gG: 6 A, quick: 10 A any stand-alone installation
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 10 thermal 50 A 50 A 50 A 50 A 4 50 A 50 A 50 A 50 A 50 A 50 A 50 A 50 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 required Installation/ mounting/ dimensions mounting position fastening method height width	CLASS 10 thermal 50 A 50 A 50 A 50 A 40 fuse gG: 6 A, quick: 10 A any stand-alone installation 105 mm 55 mm
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 50 A 50 A 50 A 50 A 4 50 A 50 A 50 A 50 A 50 A 50 A 50 A 50 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 of or 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	CLASS 10 thermal 50 A 50 A 50 A 50 A 40 fuse gG: 6 A, quick: 10 A any stand-alone installation 105 mm 55 mm
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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 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit	CLASS 10 thermal 50 A 50 A 50 A 70 A 50 A 50 A 50 A 50 A 70 A 70 A 70 A 70 A 70 A 70 A 70 A 7
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ype of connectable condu	ctor cross-sectio	ns			
 for auxiliary contacts 					
 — solid or stranded 			2x (0.5 2.5 mm²)		
 finely stranded w 	ith core end proce	ssing	2x (0.5 1.5 mm²)		
 finely stranded without core end processing for AWC cobles for auxiliant contacts 		2x (0.5 2.5 mm²)			
 for AWG cables for au 	xiliary contacts		2x (20 14)		
ightening torque					
 for main contacts with 	screw-type termin	als	3 4.5 N·m		
lesign of screwdriver shaf	t		Diameter 5 6 mm		
ize of the screwdriver tip			Pozidriv PZ 2		
lesign of the thread of the	connection screw	N			
 for main contacts 			M6		
fety related data					
1 value for proof test interva 1508	al or service life ac	cording to IEC	20 a		
rotection class IP on the f	ront according to	DIEC 60529	IP20		
ouch protection on the fro	nt according to I	EC 60529	finger-safe, for vertical conta	ct from the front	
splay					
isplay version for switching	status		Slide switch		
rtificates/ approvals					
General Product Approval				For use in hazardous	locations
	<u>(</u>	W	EHL	IECEx	K X ATEX
Declaration of Conformity		Test Certificate	95	Marine / Shipping	
UK	CE EG-Konf.	Test Certificato Special Test Cer ate		Marine / Shipping	BUREAU VERITAS
	CE EG-Konf.	Special Test Ce	ertific- <u>Type Test Certific-</u>	Marine / Shipping	ELERAD VERITAS
UK CA	EG-Konf, EG-Konf,	Special Test Ce	ertific- <u>Type Test Certific-</u>	Marine / Shipping	UREAU VERITAS other Confirmation
UK Marine / Shipping	Lloyds Register	Special Test Ce	ertific- <u>Type Test Certific-</u>	Marine / Shipping	
Aarine / Shipping	Lloyds Register	Special Test Ce	ertific- <u>Type Test Certific-</u>	Marine / Shipping	
View Marine / Shipping	Lloyds Register	Special Test Ce	ertific- <u>Type Test Certific-</u>	Marine / Shipping	
UK Marine / Shipping Conversion Railway Special Test Certific- ate	Us	Special Test Ce ate	ertific- <u>Type Test Certific-</u>	Marine / Shipping	
Varine / Shipping	Llovds Register UIS	Special Test Ce ate	ertific- ates/Test Certific- ates/Test Report	Marine / Shipping	
Varine / Shipping	it the Russian ma obal/en/pressrelea renewal of the cu	Special Test Ce ate	wwn-russian-business tes. the EAC certification if you inte	ABS	Confirmation

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

ndustry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU2136-4HD1

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2136-4HD1

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4HD1

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

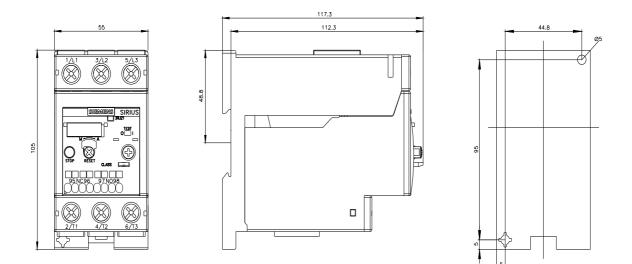
 http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2136-4HD1&lang=en

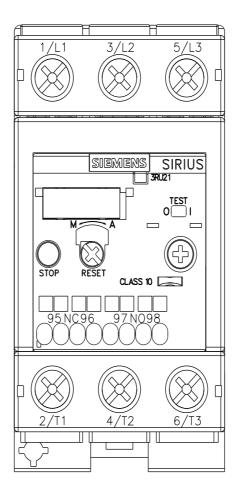
 Characteristic: Tripping characteristics, I²t, Let-through current

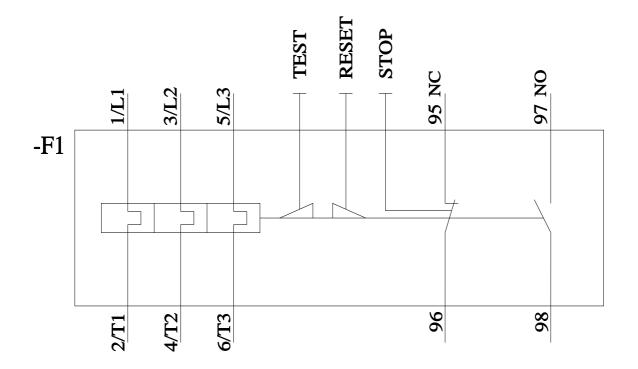
 https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4HD1/char

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

 http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4HD1&objecttype=14&gridview=view1







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3/8/2022 🖸

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