SIEMENS

Data sheet

3RU2136-4HD0



Overload relay 40... 50 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 brand schnall data 3RU2 General technical data 3RU2 size of overlader lay S2 size of contactor can be combined company-specific S2 power loss [M] for rated value of the current at AC in hot operating state 680 V operating state 690 V surge voltage resistance rated value 64V maximum permissible voltage for protective separation in networks with grounded star point 64V • between auxiliary and auxiliary circuit 415 V • between main and auxiliary circuit 690 V • between main and auxiliary circuit 600 V • between main and auxiliary circuit 600 V • between main and auxiliary circuit 600 V <t< th=""><th>and that have down</th><th></th></t<>	and that have down	
product type designation 3RU2 Central technical data	product brand name	SIRIUS
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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 — at 500 V rated value	22 KW 30 kW
— at 690 V rated value	45 kW
• at AC-3e	20.1111
— 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)
on the experiment experiment	
of the auxiliary switch required	R600 / R200
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 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 50 A fuse gG: 6 A, quick: 10 A any Contactor mounting
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 fuse gG: 6 A, quick: 10 A any Contactor mounting 90 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	CLASS 10 thermal 50 A 50 A 50 A fuse gG: 6 A, quick: 10 A any Contactor mounting 90 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 fuse gG: 6 A, quick: 10 A any Contactor mounting 90 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	CLASS 10 thermal 50 A 50 A 50 A fuse gG: 6 A, quick: 10 A any Contactor mounting 90 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 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection	CLASS 10 thermal 50 A 50 A 50 A 70 A 70 A 70 A 70 A 70 A 70 A 70 A 7
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 70 A 70 A 70 A 70 A 70 A 70 A 7
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 • for main current circuit • for auxiliary and control circuit	CLASS 10 thermal 50 A 50 A 50 A fuse gG: 6 A, quick: 10 A any Contactor mounting 90 mm 55 mm 105 mm 105 mm No Screw-type terminals spring-loaded terminals
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 • for auxiliary and control circuit	CLASS 10 thermal 50 A 50 A 50 A 70 A 70 A 70 A 70 A 70 A 70 A 70 A 7
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 at 600 V rated value for 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 e for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	CLASS 10 thermal 50 A 50 A 50 A fuse gG: 6 A, quick: 10 A any Contactor mounting 90 mm 55 mm 105 mm 105 mm No Screw-type terminals spring-loaded terminals
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 • for auxiliary and control circuit	CLASS 10 thermal 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 depth Connections/ Terminals product component removable terminal for auxiliary and control circuit • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit • for main contacts - solid or stranded	CLASS 10 thermal 50 A 50 A 50 A 7 use gG: 6 A, quick: 10 A any Contactor mounting 90 mm 55 mm 105 mm No No 2x (1 35 mm ²), 1x (1 50 mm ²)
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 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 auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections of or main contacts for main contacts	CLASS 10 thermal 50 A 50 A 50 A 50 A 50 A 50 A 50 A 50 A

type of connectable condu	ctor cross-sections	;			
 for auxiliary contacts 					
 — solid or stranded — finely stranded with core end processing 		2x (0.5 2.5 mm²)			
 finely stranded with core end processing finely stranded without core and processing 		2x (0.5 1.5 mm²)			
— finely stranded without core end processing		2x (0.5 2.5 mm²)			
 for AWG cables for au 	ixiliary contacts		2x (20 14)		
ghtening torque					
 for main contacts with 	screw-type terminals	3	3 4.5 N·m		
design of screwdriver shaft		Diameter 5 6 mm			
size of the screwdriver tip		Pozidriv PZ 2			
esign of the thread of the	connection screw				
for main contacts			M6		
ety 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 IEC 60529		EC 60529	IP20		
ouch protection on the fro			finger-safe, for vertical contact	ct from the front	
play	-				
isplay version for switching	status		Slide switch		
rtificates/ approvals					
General Product Approval				For use in hazardous	locations
	((\U_	FHI	⟨£x⟩	IECEx
	ccc	UL		ATEX	IECEx
Declaration of Conformity		UL Test Certificates	S	ATEX Marine / Shipping	IECEx
Declaration of Conformity		uL Test Certificates Special Test Cer ate		ATEX Marine / Shipping ABS	
CE EG-Konf.		Special Test Cer	tific- <u>Type Test Certific-</u>	ATEX Marine / Shipping	IECEx BUREAU VERITAS
Declaration of Conformity CCC EG-Konf. Marine / Shipping		Special Test Cer	tific- <u>Type Test Certific-</u>	ATEX Marine / Shipping	B UREAU VERITAS
EG-Konf. Marine / Shipping		Special Test Cer	tific- <u>Type Test Certific-</u>	ATEX Marine / Shipping	BUREAU VERITAS
EG-Konf. Marine / Shipping		Special Test Cer	tific- <u>Type Test Certific-</u>	ATEX Marine / Shipping	B D R E A U VERITAS
Karine / Shipping		Special Test Cer	tific- <u>Type Test Certific-</u>	ATEX Marine / Shipping	B D R E A U VERITAS
CEG-Konf. Marine / Shipping	UK Loves Lus	Special Test Cer ate	tific- <u>Type Test Certific-</u>	ATEX Marine / Shipping	BUREAU VERITAS

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=3RU2136-4HD0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2136-4HD0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4HD0

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

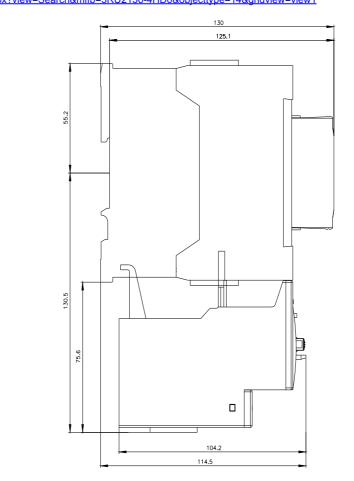
 http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2136-4HD0&lang=en

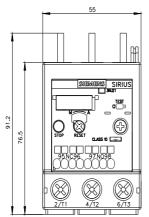
 Characteristic: Tripping characteristics, I²t, Let-through current

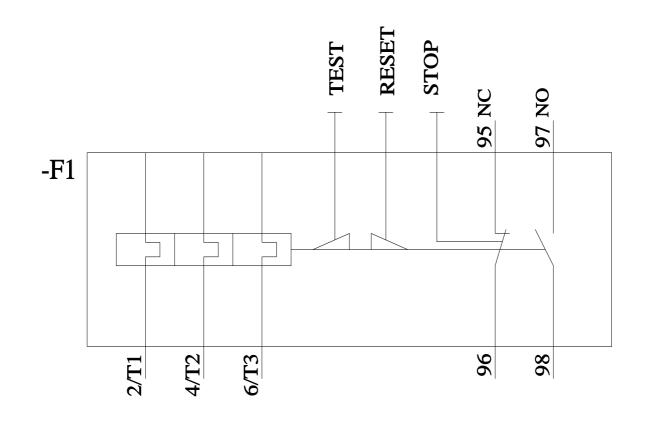
 https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4HD0/char

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

 http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4HD0&objecttype=14&gridview=view1







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