## SIEMENS

## Data sheet

## 3RU2136-4BD0



Overload relay 14...20 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 designation	thermal overload relay
product designation	3RU2
General technical data	SRUZ
	00
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	10.5 W
• per pole	3.5 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 protective separation in networks with grounded star point	
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	415 V
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	415 V
<ul> <li>between main and auxiliary circuit</li> </ul>	690 V
<ul> <li>between main and auxiliary circuit</li> </ul>	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	14 20 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	20 A
operational current at AC-3e at 400 V rated value	20 A
operating power	

• at AC-3	
• at AC-3 — at 400 V rated value	7.5 kW
— at 400 V rated value	7.5 KVV 11 kW
<ul> <li>— at 690 V rated value</li> <li>● at AC-3e</li> </ul>	15 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	11 kW
— at 690 V rated value	15 kW
Auxiliary circuit	integrated
design of the auxiliary switch number of NC contacts for auxiliary contacts	integrated
2	
note	for contactor disconnection
number of NO contacts for auxiliary contacts	
note	for message "Tripped" 0
number of CO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15	0
at 24 V	3 A
• at 110 V • at 120 V	3 A 3 A
	3 A 3 A
• at 125 V	
• at 230 V	2 A 1 A
• at 400 V	
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	
of the auxiliary switch required contact rating of auxiliary contacts according to UL	B600 / R300
of the auxiliary switch required contact rating of auxiliary contacts according to UL Protective and monitoring functions	B600 / R300
contact rating of auxiliary contacts according to UL	B600 / R300 CLASS 10
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	CLASS 10
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 20 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 20 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	CLASS 10 thermal 20 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 20 A 20 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	CLASS 10 thermal 20 A 20 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	CLASS 10 thermal 20 A 20 A 20 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 20 A 20 A 20 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 20 A 20 A 20 A 20 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 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 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 <ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> </ul> Short-circuit protection       design of the fuse link <ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul> 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       type of electrical connection	CLASS 10 thermal 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 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 <ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> </ul> Short-circuit protection       design of the fuse link <ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul> 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       e for main current circuit         e for auxiliary and control circuit       arrangement of electrical connectors for main current	CLASS 10 thermal 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 M fuse gG: 6 A, quick: 10 A 20 M fuse gG: 10 A 20 M fuse gG
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 <ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> </ul> 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         of or main current circuit         of or auxiliary and control circuit	CLASS 10 thermal 20 A 20 A 20 A 20 A 4 7 fuse gG: 6 A, quick: 10 A 4 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 <ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>short-circuit protection</li> </ul> design of the fuse link <ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul> 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         e for auxiliary and control circuit         arrangement of electrical connectors for main current circuit         type of connectable conductor cross-sections	CLASS 10 thermal 20 A 20 A 20 A 20 A 4 7 fuse gG: 6 A, quick: 10 A 4 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 <ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> </ul> <li>Short-circuit protection</li> <li>design of the fuse link         <ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul> </li> <li>Installation/ mounting/ dimensions         <ul> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> </ul> </li> <li>Connections/ Terminals         <ul> <li>product component removable terminal for auxiliary and control circuit</li> <li>for auxiliary and control circuit</li> <li>for auxiliary and control circuit</li> <li>for auxiliary and control circuit</li> <li>of or auxiliary and control circuit</li> </ul> </li>	CLASS 10 thermal

type of connectable conduct • for auxiliary contacts — solid or stranded — finely stranded with — finely stranded with • for AWG cables for auxil tightening torque • for main contacts with so design of screwdriver shaft size of the screwdriver tip design of the thread of the co • for main contacts afety related data T1 value for proof test interval of 61508 protection class IP on the from	h core end proces hout core end pro- iliary contacts crew-type termina	ising cessing Is	2x (0.5 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ) 2x (0.5 2.5 mm <sup>2</sup> ) 2x (20 14) 3 4.5 N·m Diameter 5 6 mm Pozidriv PZ 2		
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General Product Approval				For use in hazardo	ous locations
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	UK CA	Test Certificate	tific- Special Test C	Marine / Shipping	
C E EG-Konf.	UK CA	Type Test Cer	tific- Special Test C	Marine / Shipping	BUREAU VERITAS Other
C C EG-Konf.	UKS UKS	Type Test Cer	tific- Special Test C	Marine / Shipping	other Confirmation
Marine / Shipping	Hoyd's Register	Type Test Cer	tific- Special Test C	Marine / Shipping	

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

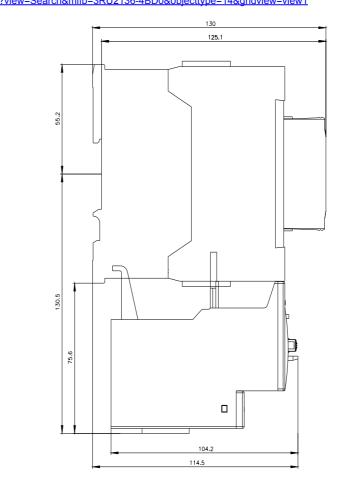
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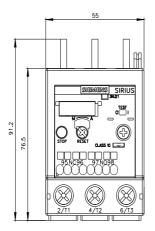
 Characteristic: Tripping characteristics, I²t, Let-through current

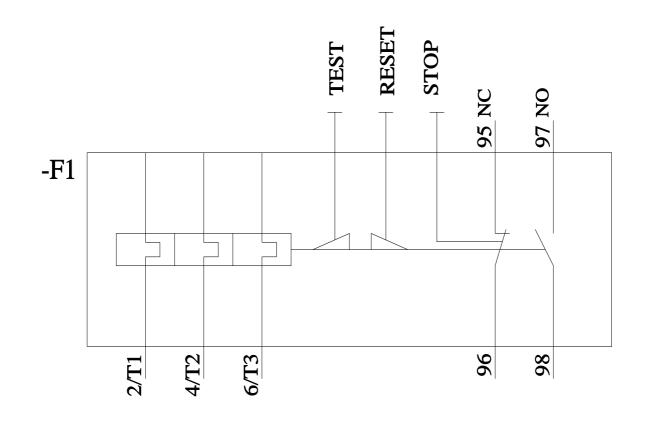
 https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4BD0/char

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

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