## SIEMENS

## Data sheet

## 3RU2136-4HB0

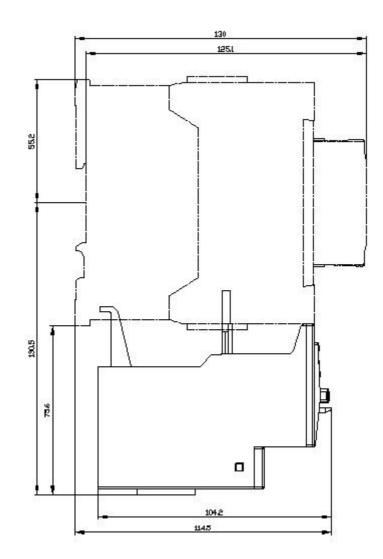


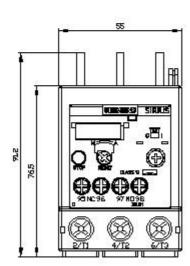
Overload relay 40... 50 A Thermal For motor protection Size S2, Class 10 Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

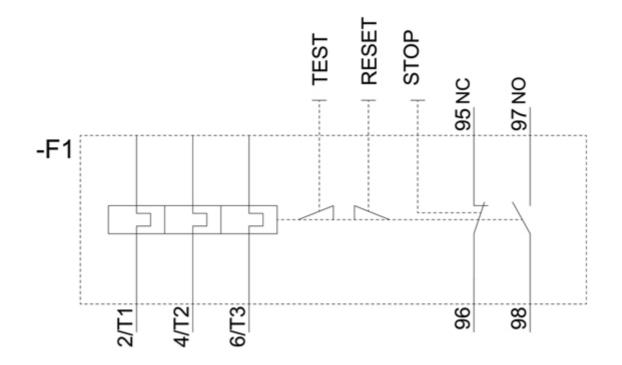
product brand name	SIRIUS
product designation	thermal overload relay
product type designation	3RU2
General technical data	
size of overload relay	S2
size of contactor can be combined company-specific	S2
power loss [W] for rated value of the current at AC in hot operating state	15.6 W
• per pole	5.2 W
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	
<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 acc. to IEC 60068-2-27	8g / 11 ms
recovery time after overload trip	
<ul> <li>with automatic reset typical</li> </ul>	10 min
<ul> <li>with remote-reset</li> </ul>	10 min
with manual reset	10 min
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 acc. to IEC 81346-2	F
Substance Prohibitance (Date)	15.10.2014 00:00:00
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-40 +70 °C
<ul> <li>during storage</li> </ul>	-55 +80 °C
during transport	-55 +80 °C
temperature compensation	-40 +60 °C
relative humidity during operation	10 95 %
Main circuit	
	3

	10 50 4
adjustable current response value current of the current-dependent overload release	40 50 A
operating voltage	
rated value	690 V
at AC-3 rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	50 A
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	
note	for message "Tripped"
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	0
• at 24 V	3 A
• at 24 V • at 110 V	3 A
• at 120 V	3 A
• at 125 V	3 A
• at 125 V • at 230 V	2 A
• at 230 V • at 400 V	2 A 1 A
operational current of auxiliary contacts at DC-13 • at 24 V	2 A
• at 24 V • at 60 V	0.3 A
• at 00 V	0.22 A
• at 125 V	0.22 A
• at 220 V	0.12 A
design of the miniature circuit breaker for short-circuit	6A (SCC less than equal to 0.5 kA; U less than equal to 260V)
protection of the auxiliary switch required	OA (SCC less than equal to 0.5 kA, 0 less than equal to 2007)
contact rating of auxiliary contacts according to UL	B600 / R300
Protective and monitoring functions	
trip class	CLASS 10
trip class design of the overload release	CLASS 10 thermal
design of the overload release	
design of the overload release UL/CSA ratings	
design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	thermal
design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value	thermal 50 A
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	thermal
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type of connectable c	or main contacts				
	at AWG cables for main contacts		2x (18 2), 1x (18 1)		
for auxiliany contr	type of connectable conductor cross-sections				
<ul> <li>for auxiliary contacts</li> </ul>					
<ul> <li>— solid or strar</li> </ul>	nded		2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)		
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
<ul> <li>at AWG cables for</li> </ul>	at AWG cables for auxiliary contacts		2x (20 16), 2x (18 14)		
tightening torque					
for main contacts with screw-type terminals		3 4.5 N·m			
<ul> <li>for auxiliary containing</li> </ul>	acts with screw-type	terminals	0.8 1.2 N·m		
design of screwdriver	r shaft		Diameter 5 6 mm		
size of the screwdriver tip		Pozidriv PZ 2			
design of the thread of the connection screw					
• for main contacts		M6			
<ul> <li>of the auxiliary and control contacts</li> </ul>		M3			
Safety related data					
T1 value for proof test interval or service life acc. to IEC 61508		20 у			
protection class IP on	the front acc. to IE	C 60529	IP20		
touch protection on th	he front acc. to IEC	60529	finger-safe, for vertical con	tact from the front	
Display					
display version for swite	ching status		Slide switch		
Certificates/ approvals	-				
General Product App	roval			For use in hazardo	us locations
CSA CSA	ccc	Ű	LIIL	IECEx	ATEX
Declaration of Confor	rmitv	<b>T</b> ( <b>O</b> ())			
	· •	Test Certifica	ites	Marine / Shipping	
CE EG-Konf.	Miscellaneous	Special Ter Certific-ate	<u>st Type Test</u>	Marine / Shipping	BUREAU VERITAS
GG-Konf. Marine / Shipping	-	Special Te	<u>st Type Test</u> e <u>Certific-ates/Test</u>	Marine / Shipping	
	-	Special Te	<u>st Type Test</u> e <u>Certific-ates/Test</u>	Marine / Shipping	VERITAS
Marine / Shipping	-	Special Te	<u>st Type Test</u> e <u>Certific-ates/Test</u>	ABS	<b>VERITAS</b> other
Marine / Shipping	-	Special Te	<u>st Type Test</u> e <u>Certific-ates/Test</u>	ABS	<b>VERITAS</b> other







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