## SIEMENS

## Data sheet

## 3RU2136-1JB0

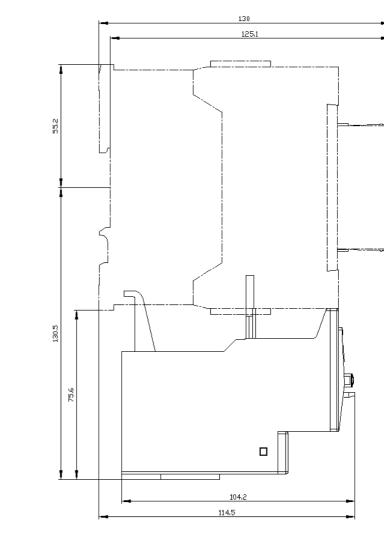


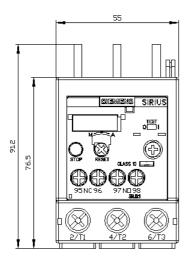
Overload relay 7...10 A Thermal For motor protection Size S2 Class 10 Contactor mounting Main circuit: screw terminal Auxiliary circuit: screw terminal Manual-Automatic-Reset

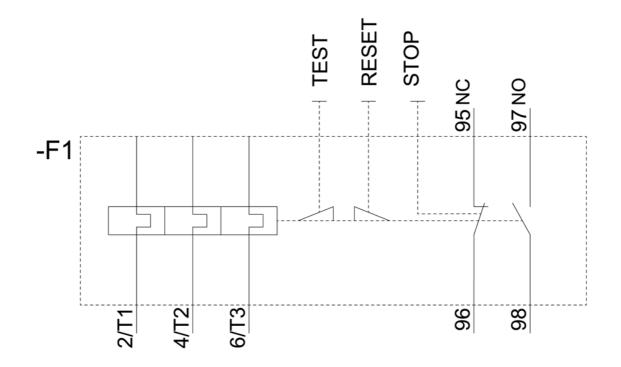
product brand name	SIRIUS		
product designation	thermal overload relay		
product type designation	3RU2		
General technical data			
size of overload relay	S2		
size of contactor can be combined company-specific	\$2 \$2		
power loss [W] for rated value of the current at AC in hot operating state	7.5 W		
• per pole	2.5 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 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		
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)	08.09.2017 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		
<ul> <li>during transport</li> </ul>	-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	7 10 A		
operating voltage			
<ul> <li>rated value</li> </ul>	690 V		
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V		
operating frequency rated value	50 60 Hz		

operational current rated value	10 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	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		
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)		
contact rating of auxiliary contacts according to UL	B600 / R300		
Protective and monitoring functions	500077300		
trip class	CLASS 10		
design of the overload release	thermal		
UL/CSA ratings	themai		
full-load current (FLA) for 3-phase AC motor • at 480 V rated value	10 A		
at 600 V rated value	10 A 10 A		
Short-circuit protection			
<ul> <li>design of the fuse link</li> <li>for short-circuit protection of the auxiliary switch</li> </ul>	fuse aC: 6 A quick: 10 A		
required	fuse gG: 6 A, quick: 10 A		
Installation/ mounting/ dimensions			
mounting position	any		
fastening method	Contactor mounting		
height	90 mm		
width	55 mm		
depth	105 mm		
Connections/ Terminals			
product component removable terminal for auxiliary and control circuit	No		
type of electrical connection			
<ul> <li>for main current circuit</li> </ul>	screw-type terminals		
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals		
arrangement of electrical connectors for main current circuit	Top and bottom		
type of connectable conductor cross-sections			
<ul> <li>for main contacts</li> </ul>			
— solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)		
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> )		
at AWG cables for main contacts	2x (18 2), 1x (18 1)		
type of connectable conductor cross-sections			
for auxiliary contacts			
— solid or stranded	2x (0,5 1,5 mm <sup>2</sup> ), 2x (0,75 2,5 mm <sup>2</sup> )		
— finely stranded with core end processing	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )		
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)		
tightening torque			

- for main contacts with correct type terminals	0 4 E N				
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				
design of screwdriver shaft size of the screwdriver tip	Diameter 5 6 mm Pozidriv PZ 2				
design of the thread of the connection screw					
5	MG				
for main contacts     of the envillance and control contacts	M3	M6			
of the auxiliary and control contacts	1013				
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 IEC 60529	ront acc. to IEC 60529 IP20				
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front				
Display					
display version for switching status	Slide switch				
Certificates/ approvals					
General Product Approval		For use in hazard	ous locations		
	EAC	K ATEX	IECE×		
Declaration of Conformity Test Certificates	Marine / Shippin	ng			
EG-Konf. <u>Type Test Certific-ates/Test Report</u> <u>Special Test Cate</u>	ertific-	BUREAU	Lloyds Register urs		
Marine / Shipping		other	Railway		
PRS RINA RINA	DIV-GL	Confirmation	<u>Special Test Certific-</u> <u>ate</u>		
Further information Information- and Downloadcenter (Catalogs, Brochures,, https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/produce Cax online generator http://support.automation.siemens.com/WW/CAXorder/defau Service&Support (Manuals, Certificates, Characteristics, https://support.industry.siemens.com/cs/ww/en/ps/3RU2136- Image database (product images, 2D dimension drawing http://www.automation.siemens.com/bilddb/cax_de.aspx?mlf Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through of https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-	t?mlfb=3RU2136-1JB0 llt.aspx?lang=en&mlfb=3R , FAQs,) -1JB0 ls, 3D models, device circ fb=3RU2136-1JB0⟨=e current	cuit diagrams, EPLAN m	acros,)		







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1/12/2021 🖸