## SIEMENS

## Data sheet

## 3RU2136-4QB0

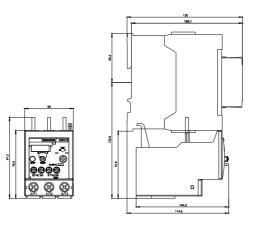


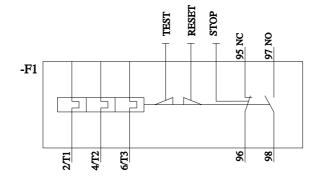
Overload relay 47...57 A Thermal For motor protection Size S2, Class 10 Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

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		
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			
number of poles for main current circuit	3		
adjustable current response value current of the current-dependent overload release	47 57 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	57 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			
trip class	CLASS 10		
design of the overload release	thermal		
UL/CSA ratings			
full-load current (FLA) for 3-phase AC motor			
at 480 V rated value	57 A		
at 600 V rated value	57 A		
Short-circuit protection			
design of the fuse link			
for short-circuit protection of the auxiliary switch	fuse gG: 6 A, quick: 10 A		
required			
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			
for main current circuit	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			
for main contacts			
— solid or stranded	2x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> )		
— finely stranded with core end processing	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			
<ul> <li>for auxiliary contacts</li> <li>— solid or stranded</li> </ul>	$2x (0.5, 1.5 \text{ mm}^2) 2x (0.75, 2.5 \text{ mm}^2)$		
	2x (0,5 1,5 mm <sup>2</sup> ), 2x (0,75 2,5 mm <sup>2</sup> ) 2x (0,5 1,5 mm <sup>2</sup> ), 2x (0,75 2,5 mm <sup>2</sup> )		
<ul> <li>finely stranded with core end processing</li> <li>at AWG cables for auxiliary contacts</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14)		
tightening torque	2A (20 10), 2A (10 14)		

	0 ( 5 )				
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	Diameter 5 6 mm				
size of the screwdriver tip design of the thread of the connection screw	Pozidriv PZ 2				
for main contacts	MG				
<ul> <li>of the auxiliary and control contacts</li> </ul>	M3	M6			
	IVIS				
Safety related data	20.11	_			
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	IP20				
touch protection on the front acc. to IEC 60529	finger-safe, for vertical of	contact from the front			
Display					
display version for switching status	Slide switch				
Certificates/ approvals					
General Product Approval		For use in hazarde	ous locations		
	EHC	KEx ATEX	IECEX		
Declaration of Conformity Test Certificates	Marine / Shippin	ng			
EG-Konf. <u>Special Test Certific-</u> <u>ate</u> <u>ates/Test Re</u>	States and the second	BUREAU VERITAS	Lloyds Register us		
Marine / Shipping		other	Railway		
PRS RINA RANS	DNV-GL DW1-CDMV	<u>Confirmation</u>	<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/product         Cax online generator         http://support.automation.siemens.com/WW/CAXorder/defatt         Service&Support (Manuals, Certificates, Characteristics         http://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?ml         Characteristic: Tripping characteristics, I²t, Let-through https://support.industry.siemens.com/cs/ww/en/ps/3RU2136         Further characteristics (e.g. electrical endurance, switch	ct?mlfb=3RU2136-4QB0 ult.aspx?lang=en&mlfb=3R ;, FAQs,) i-4QB0 gs, 3D models, device cird fb=3RU2136-4QB0⟨=d current i-4QB0/char	cuit diagrams, EPLAN m	acros,)		





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