SIEMENS

Data sheet

3RU2136-4GB0



Overload relay 36...45 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 protective separation in networks with grounded star point	
 between auxiliary and auxiliary circuit 	415 V
 between auxiliary and auxiliary circuit 	415 V
 between main and auxiliary circuit 	690 V
 between main and auxiliary circuit 	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
SVHC substance name	Blei - 7439-92-1
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	36 45 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	45 A
operational current at AC-3e at 400 V rated value	45 A

operating power			
• at AC-3			
— at 400 V rated value	22 kW		
— at 500 V rated value	30 kW		
— at 690 V rated value	37 kW		
● at AC-3e			
— at 400 V rated value	22 kW		
— at 500 V rated value	30 kW		
— at 690 V rated value	37 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	3A		
	2 A		
• at 230 V			
• 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 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	45 A		
• at 600 V rated value	45 A		
Short-circuit protection			
design of the fuse link			
 for short-circuit protection of the auxiliary switch 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	No		
control circuit			
type of electrical connection			
for main current circuit	screw-type terminals		
 for auxiliary and control circuit 	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 mm²), 1x (1 50 mm²)		
— finely stranded with core end processing	2x (1 25 mm²), 1x (1 35 mm²)		
,			

 for AWG cables for m 	ain contacts		2x (18 2), 1x (18 1)	2x (18 2), 1x (18 1)		
type of connectable condu	ctor cross-section	IS				
 for auxiliary contacts 						
- solid or stranded	— solid or stranded			2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
— finely stranded with core end processing			2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
for 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				
 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		Pozidriv PZ 2				
design of the thread of the	design of the thread of the connection screw					
 for main contacts 	•		M6			
 of the auxiliary and co 	ontrol contacts		M3			
Safety related data						
T1 value for proof test inte IEC 61508	erval or service life	according to	20 a			
protection class IP on the	front according to	IEC 60529	IP20			
touch protection on the fro			finger-safe, for vertical contact from the front			
Display						
display version for switching	status		Slide switch			
Approvals Certificates						
Declaration of Conformity	UK	Test Certificat	tific- Special Test Certif	Marine / Shipping		
EG-Konf. Marine / Shipping				ABS	BUREAU VERITAS other	
	Llovd's Register us	PRS	RINA	RMRS	<u>Confirmation</u>	
Railway						
<u>Special Test Certific-</u> <u>ate</u>						
Further information						

https://www.siemens.com/ic10

Cax online generator

https://pre

Siemens has decided to exit the Russian market (see here).

Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...)

dlobal/en/pressrelease/si Siemens is working on the renewal of the current EAC certificates.

EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU2136-4GB0

vn-russian-business

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an

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http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2136-4GB0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4GB0

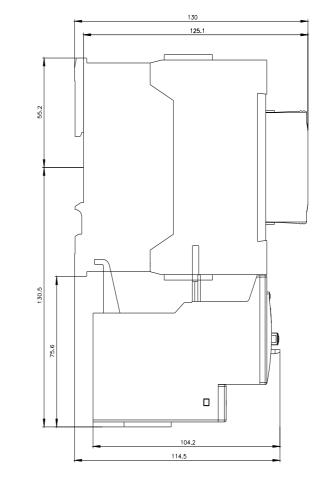
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2136-4GB0&lang=en

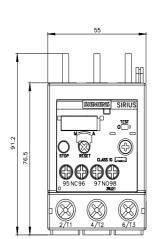
Characteristic: Tripping characteristics, I²t, Let-through current

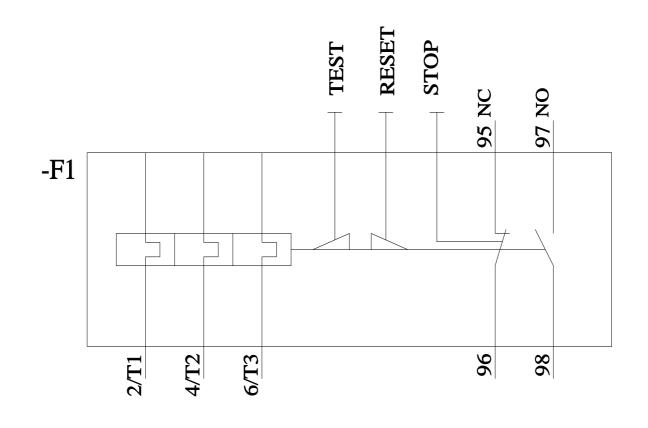
https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4GB0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4GB0&objecttype=14&gridview=view1







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