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 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	47 57 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	57 A
operational current at AC-3e at 400 V rated value	57 A

operating power	
• at AC-3	
— at 400 V rated value	30 kW
— at 500 V rated value	37 kW
— at 690 V rated value	55 kW
• at AC-3e	
— at 400 V rated value	30 kW
— at 500 V rated value	37 kW
— at 690 V rated value	55 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	0
• at 24 V	2.4
	3 A
• at 110 V	3 A 2 A
• at 120 V	3 A
• at 125 V	3 A
• at 230 V	2 A
• 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	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 required 	fuse gG: 6 A, quick: 10 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	Contactor mounting
height	90 mm
width	55 mm
	105 mm
depth Connections/ Terminals	
	No
product component removable terminal for auxiliary and control circuit	No
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	Top and bottom
circuit	
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 mm ²), 1x (1 35 mm ²)
mory standod that ooro ond proceeding	

 for AWG cables for 	main contacts		2x (18 2), 1x (18 1)		
ype of connectable con	ductor cross-section	ns			
 for auxiliary contacts 	S				
— 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)			
ightening torque					
 for main contacts with 	ith screw-type termina	als	3 4.5 N·m		
 for auxiliary contacts with screw-type terminals 		0.8 1.2 N·m			
esign of screwdriver shaft		Diameter 5 6 mm			
ize of the screwdriver tip		Pozidriv PZ 2			
lesign of the thread of th	he connection screv	v			
for main contacts		M6			
 of the auxiliary and 	control contacts		M3		
EC 61508					
1 value for proof test in EC 61508	terval or service life	according to	20 a		
lectrical Safety					
rotection class IP on th	e front according to	IEC 60529	IP20		
ouch protection on the	front according to I	EC 60529	finger-safe, for vertical contac	t from the front	
splay					
lisplay version for switchir	ng status		Slide switch		
CE EG-Konf.	UK CA		Confirmation		EHC
				U	EHC
EG-Konf.		CCC Test Certificat		UL UL	EHC
		Test Certificat Special Test Certificat	tes	Warine / Shipping	
For use in hazardous loo	cations	Special Test C	tes ertific- <u>Type Test Certific-</u>	Warine / Shipping	CHARTER OF CONTRACTOR
	cations	Special Test C	tes ertific- <u>Type Test Certific-</u>	Marine / Shipping	Confirmation
For use in hazardous loo ATEX Marine / Shipping	LECEX IECEX	Special Test C	tes ertific- <u>Type Test Certific-</u>	Marine / Shipping	
For use in hazardous loo	LECEX IECEX	Special Test C	tes ertific- <u>Type Test Certific-</u>	UL Marine / Shipping ABS	

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

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

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

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875 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?mlfb=3RU2136-4QB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2136-4QB0

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

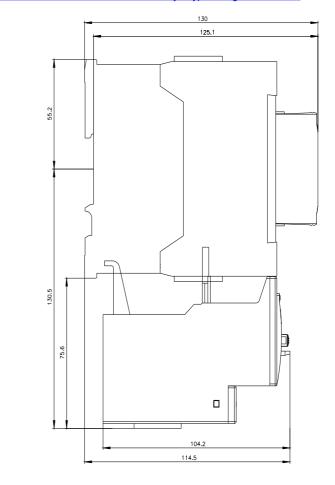
https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4QB0

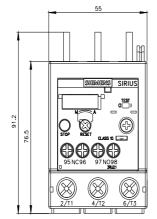
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2136-4QB0&lang=en

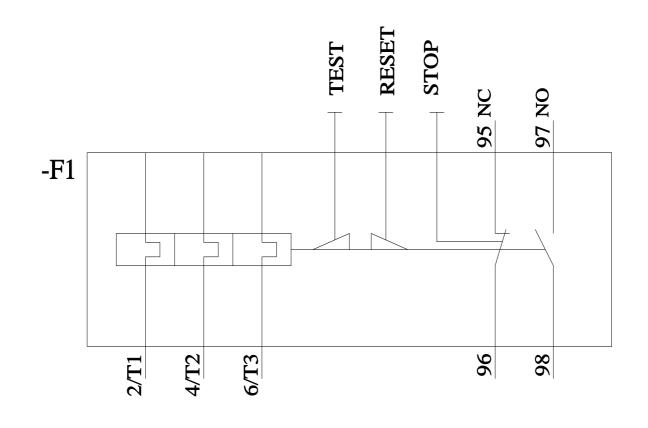
Characteristic: Tripping characteristics, I2t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4QB0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4QB0&objecttype=14&gridview=view1







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