SIEMENS

Data sheet

3RU2136-4DB0



Overload relay 18...25 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	10.5 W
• per pole	3.5 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 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	18 25 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	25 A
operational current at AC-3e at 400 V rated value	25 A

operating power	
• at AC-3	
— at 400 V rated value	11 kW
— at 500 V rated value	15 kW
— at 690 V rated value	22 kW
• at AC-3e	
— at 400 V rated value	11 kW
— at 500 V rated value	15 kW
— at 690 V rated value	22 kW
Auxiliary circuit	22 KW
design of the auxiliary switch	integrated
	1
number of NC contacts for auxiliary contacts	
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
• 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	6A (SCC less than equal to 0.5 kA; U less than equal to 260V)
of the auxiliary switch required	
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 	25 A
 at 600 V rated value 	25 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
	90 mm
heightwidth	55 mm
depth Connections/Terminals	105 mm
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 mm²), 1x (1 35 mm²)
,	

	ain contacto		2x (18 2), 1x (18 1)		
 for AWG cables for m 	Iain contacts		Ex (10 E), 1x (10 1)		
type of connectable cond	uctor cross-sectio	ns			
 for auxiliary contacts 					
— 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 connection screw					
for main contacts		M6			
 of the auxiliary and compared 	ontrol contacts		M3		
afety related data					
T1 value for proof test interval or service life according to IEC 61508		20 a			
protection class IP on the	front according to	IEC 60529	IP20		
touch protection on the fr			finger-safe, for vertical contact	from the front	
isplay	-				
display version for switching	g status		Slide switch		
pprovals Certificates					
General Product Approva				For use in hazardous	locations
<u>Confirmation</u>		(hr)	EHL	IECEx	KEX ATEX
		UL UL	EHC		ATEX
Declaration of Conformity		Test Certificate		IECEx Marine / Shipping	ATEX
		Test Certificato	tific- Special Test Certific-		
Declaration of Conformity	CE	Type Test Cer	tific- Special Test Certific-	Marine / Shipping	EUREAU VERITAS
Declaration of Conformity	CE	Type Test Cer	tific- Special Test Certific-	Marine / Shipping	EXERCISE OTHER Confirmation
Declaration of Conformity UK CA Marine / Shipping	EG-Konf.	Type Test Cer	tific- Special Test Certific-	Marine / Shipping	
Declaration of Conformity UKCA Marine / Shipping	EG-Konf.	Type Test Cer	tific- Special Test Certific-	Marine / Shipping	

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=3RU2136-4DB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2136-4DB0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4DB0

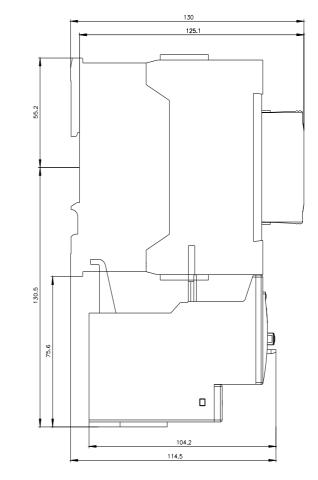
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2136-4DB0&lang=en

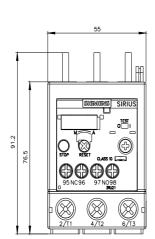
Characteristic: Tripping characteristics, I²t, Let-through current

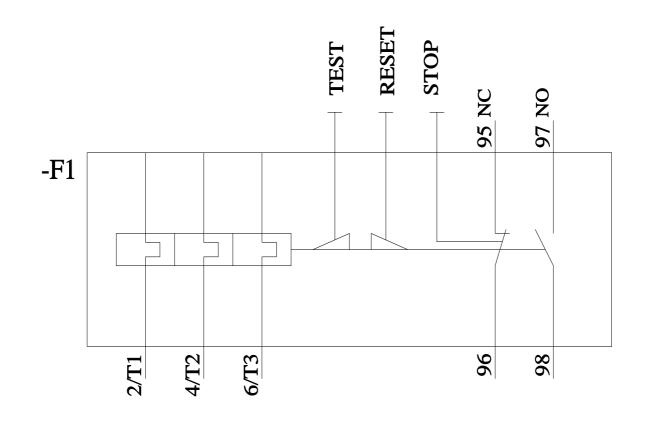
https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4DB0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4DB0&objecttype=14&gridview=view1







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