SIEMENS

Data sheet

3RU2136-4HB0



Overload relay 40... 50 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
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	40 50 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	50 A
operational current at AC-3e at 400 V rated value	50 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	45 kW
• at AC-3e	
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	45 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 24 V	3 A
• at 120 V	3 A
• at 125 V	3 A
• at 125 V • at 230 V	2 A
• at 400 V	1 A
operational current of auxiliary contacts at DC-13	0.A
• 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	50 A
• at 600 V rated value	50 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 product component removable terminal for auxiliary	No
and 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 contact 	cts					
— solid or st	randed	2x (*	1 35 mm²), 1x (1 5	0 mm²)		
— finely stra	nded with core end processing		2x (1 25 mm ²), 1x (1 35 mm ²)			
 at AWG cables 	for main contacts	2x (18 2), 1x (18 1)			
type of connectable	conductor cross-sections					
 for auxiliary con 	ntacts					
— solid or stranded		2x (0	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
 finely stranded with core end processing 		2x (0	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
 at AWG cables for auxiliary contacts 		2x (2	2x (20 16), 2x (18 14)			
tightening torque						
 for main contacts with screw-type terminals 		3	3 4.5 N·m			
 for auxiliary contacts with screw-type terminals 		ls 0.8 .	0.8 1.2 N·m			
design of screwdriver shaft		Diar	meter 5 6 mm			
size of the screwdriver tip		Poz	idriv PZ 2			
-	d of the connection screw					
 for main contact 		M6				
-	and control contacts	M3				
Safety related data						
	st interval or service life accordi	ing to 20 y	/			
IEC 61508						
protection class IP 60529	on the front according to IEC	IP20)			
touch protection on	the front according to IEC 6	60529 finge	er-safe, for vertical cont	act from the front		
Display						
display version for sv	vitching status	Slide	e switch			
Certificates/ approva	ls					
General Product A	pproval				For use in hazard- ous locations	
SP		onfirmation	Ű	EHC	ATEX	
For use in hazard- ous locations	Contraction of Conformity		UL UL Test Certificates	EAC	ATEX Marine / Shipping	
	CCC		Test Certificates Type Test Certific- ates/Test Report	ERC Special Test Certific- ate	Marine / Shipping	
ous locations	CCC	,	Type Test Certific-		Marine / Shipping	
ous locations	CCC	,	Type Test Certific-		KARSEN CONSISTENT OF CONSISTENT.	
ous locations	Declaration of Conformity		Type Test Certific-		KARTINE / Shipping	
ous locations	Declaration of Conformity		Type Test Certific-		KARING / Shipping	

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

91.2

76.5

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU2136-4HB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2136-4HB0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4HB0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2136-4HB0&lang=en

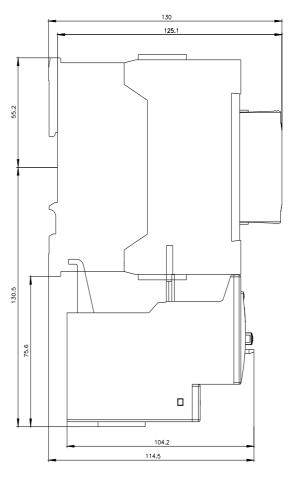
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Characteristic: Tripping characteristics, I²t, Let-through current

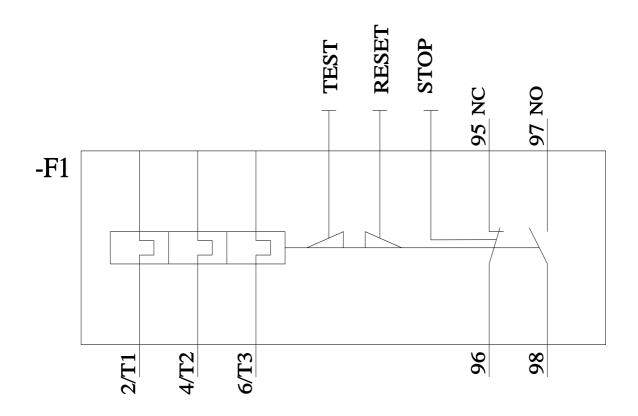
https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4HB0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4HB0&objecttype=14&gridview=view1







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