SIEMENS

Data sheet

3RU2136-4HB1



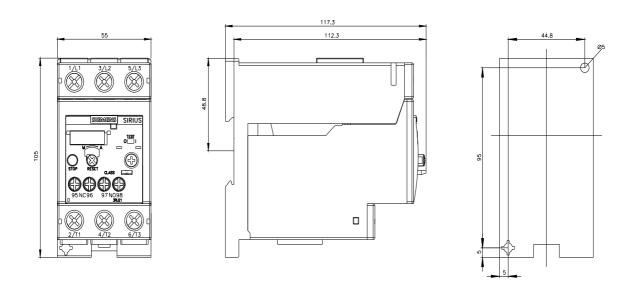
Overload relay 40... 50 A Thermal For motor protection Size S2, Class 10 Standalone installation Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

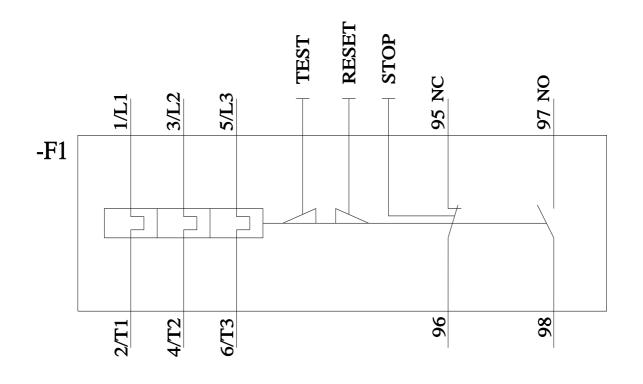
product brand name	SIRIUS
product designation	thermal overload relay
product type designation	3RU2
General technical data	
size of overload relay	S2
size of contactor can be combined company-specific	S2
power loss [W] for rated value of the current at AC in hot	15.6 W
operating state	10.0 W
● per pole	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	22 kW		
— at 400 V rated value — at 500 V rated value	22 kW		
	30 kW		
— at 690 V rated value	45 kW		
• at AC-3e	20.111		
— 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 for contactor disconnection		
• 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 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 UI	B600 / R300		
contact rating of auxiliary contacts according to UL Protective and monitoring functions	B600 / R300		
Protective and monitoring functions	B600 / R300		
Protective and monitoring functions trip class			
Protective and monitoring functions	CLASS 10		
Protective and monitoring functions trip class design of the overload release	CLASS 10		
Protective and monitoring functions trip class design of the overload release UL/CSA ratings	CLASS 10		
Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	CLASS 10 thermal		
Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value	CLASS 10 thermal 50 A		
Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection	CLASS 10 thermal 50 A		
Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value	CLASS 10 thermal 50 A		
Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link	CLASS 10 thermal 50 A 50 A		
Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	CLASS 10 thermal 50 A 50 A 50 A fuse gG: 6 A, quick: 10 A		
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Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth	CLASS 10 thermal 50 A 50 A 50 A 70 A 90 fuse gG: 6 A, quick: 10 A any stand-alone installation 105 mm 55 mm		
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Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit	CLASS 10 thermal 50 A 50 A 50 A 70 A 70 A 70 A 70 A 70 A 70 A 70 A 7		
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type of connectable conductor cross-sections 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 mm ²), 2x (0.75			
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 control contacts	M3			
Safety 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 front according to IEC 60529	finger-safe, for vertical contact	from the front		
Display				
display version for switching status	Slide switch			
Certificates/ approvals				
General Product Approval		For use in hazardous	locations	
	EHC	K ATEX	IECEx	
Declaration of Conformity Test Certificat	tes	Marine / Shipping		
EG-Konf. UK CA CA CA CA CA CA CA CA CA CA CA CA CA		ABS	BUREAU	
Marine / Shipping			other	
Lovds Register PRS DNV LRS PRS	RINA	RMRS	<u>Confirmation</u>	
Railway				
Special Test Certific- ate				
Further information				
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	<u>=3RU2136-4HB1</u>			
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.asp				

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