SIEMENS

Data sheet

3RU2146-4JB1

THERM. OVERLOAD RELAY 45...63 A FOR MOTOR PROTECTION SIZE S3, CLASS 10 FOR STAND-ALONE MOUNTING MAIN CIRCUIT: SCREW TERMINAL AUX. CIRCUIT: SCREW TERM. MANUAL-AUTOMATIC-RESET



Figure similar

Product brand name	SIRIUS
Product designation	thermal overload relay
Product type designation	3RU2
General technical data	
Size of overload relay	S3
Size of contactor can be combined company-specific	S3
Insulation voltage with degree of pollution 3 rated value	1 000 V
Surge voltage resistance rated value	8 kV
maximum permissible voltage for safe isolation	
 in networks with grounded star point between auxiliary and auxiliary circuit 	440 V
 in networks with grounded star point between auxiliary and auxiliary circuit 	440 V
 in networks with grounded star point between main and auxiliary circuit 	440 V
 in networks with grounded star point between main and auxiliary circuit 	440 V

Protection class IP	_
• on the front	IP20
• of the terminal	IP00
Shock resistance	
• acc. to IEC 60068-2-27	8g / 11 ms
Recovery time	
 after overload trip with automatic reset typical 	10 min
 after overload trip with remote-reset 	10 min
 after overload trip with manual reset 	10 min
Type of protection	on request
Certificate of suitability relating to ATEX	on request
Protection against electrical shock	finger-safe when touched vertically from front acc. to IEC 60529
Equipment marking acc. to DIN EN 81346-2	F
Ambient conditions	

2 000 m
-40 +70 °C
-55 +80 °C
-55 +80 °C
-40 +60 °C
0 90 %

Main circuit	
Number of poles for main current circuit	3
Adjustable pick-up value current of the current-	45 63 A
dependent overload release	
Operating voltage	
 rated value 	690 V
 at AC-3 rated value maximum 	690 V
Operating frequency rated value	50 60 Hz
Operating current rated value	63 A

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

Operating 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				
Operating 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 	6A (SCC less than equal to 0.5 kA; U less than equal to 260V)				
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 three-phase AC motor					
• at 480 V rated value	52 A				
• at 600 V rated value	62 A				
Short-circuit protection Design of the fuse link					
-					
for short-circuit protection of the main circuit	aC: 200 A				
— with type of coordination 1 required	gG: 200 A				
— with type of assignment 2 required	gG: 125 A				
 for short-circuit protection of the auxiliary switch required 	fuse gG: 6 A, quick: 10 A				
Installation/ mounting/ dimensions					
Mounting position	any				
	stand-alone installation				
Mounting type					
Height	120 mm				
Height Width	120 mm 70 mm				
Height Width Depth	120 mm				
Height Width Depth Required spacing	120 mm 70 mm				
Height Width Depth Required spacing • with side-by-side mounting	120 mm 70 mm 140 mm				
Height Width Depth Required spacing	120 mm 70 mm				

0 mm		
0 mm		
0 mm		
0 mm		
0 mm		
0 mm		
6 mm		
0 mm		
0 mm		
6 mm		
No		
screw-type terminals		
screw-type terminals		
Top and bottom		
2x (2.5 16 mm²)		
2x (6 16 mm²), 2x (10 50 mm²), 1x (10 70 mm²)		
2x (2,5 50 mm²), 1x (10 70 mm²)		
2x (2.5 35 mm²), 1x (2.5 50 mm²)		
2x (10 1/0), 1x (10 2/0)		
2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)		
2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
2x (20 16), 2x (18 14)		
4.5 6 N·m		
19 mm		

• for main conta	acts with screw-type	terminals	4.5 6 N·m		
• for auxiliary co	ontacts with screw-ty	pe terminals	0.8 1.2 N·m		
Design of screwdriv	ver shaft		Hexagonal socket		
Size of the screwdri	iver tip		4 mm hexagon socke	t	
Design of the thread	d of the connection s	screw	_		
• for main contacts		M8			
 of the auxiliary and control contacts 		M3			
afety related data	1				
T1 value for proof test interval or service life acc. to IEC 61508		20 у			
isplay					
Display version					
 for switching status 		Slide switch			
ertificates/approv	als				
General Produc	ct Approval			Declaration of Conformity	Test Certificates
	CSA		EHC	EG-Konf.	Type Test Certificates/Test Report
Test Certificates	other				
Special Test Certificate	Confirmation				

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

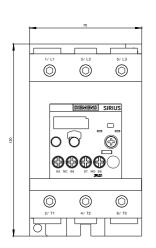
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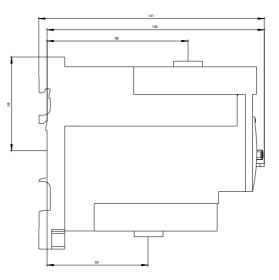
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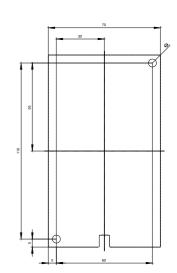
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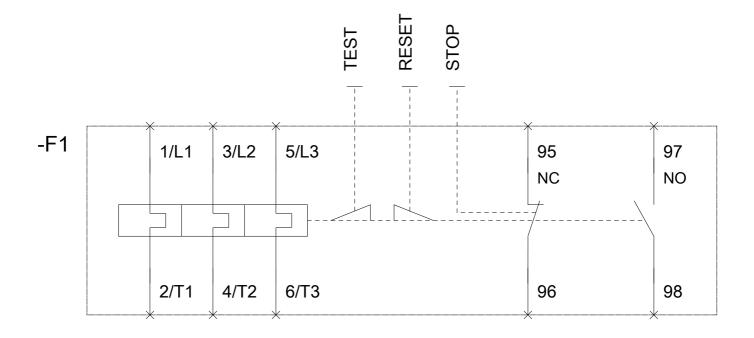
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RU2146-4JB1

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2146-4JB1&lang=en









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