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

	SIRIUS
product designation	
product designation the second s	hermal overload relay
product type designation 3	3RU2
General technical data	
size of overload relay S	S2
size of contactor can be combined company-specific	52
power loss [W] for rated value of the current at AC in hot 1 operating state	10.5 W
• per pole 3	3.5 W
insulation voltage with degree of pollution 3 at AC rated value 6	690 V
surge voltage resistance rated value 6	3 kV
maximum permissible voltage for protective separation in networks with grounded star point	
• between auxiliary and auxiliary circuit 4	415 V
• between auxiliary and auxiliary circuit 4	415 V
• between main and auxiliary circuit 6	690 V
between main and auxiliary circuit	690 V
shock resistance according to IEC 60068-2-27 8	3g / 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	=
Substance Prohibitance (Date) 1	10/15/2014
Ambient conditions	
installation altitude at height above sea level maximum 2	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 1	10 95 %
Main circuit	
number of poles for main current circuit 3	3
adjustable current response value current of the current- dependent overload release	18 25 A
operating voltage	
• rated value 6	690 V
at AC-3e rated value maximum	690 V
operating frequency rated value 5	50 60 Hz
operational current rated value 2	25 A
operational current at AC-3e at 400 V rated value 2	25 A
operating power	

• at AC-3	
• 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 Auxiliary circuit	22 kW
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	
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	1A
• 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	
	B600 / R300
of the auxiliary switch required	B600 / R300
of the auxiliary switch required contact rating of auxiliary contacts according to UL	B600 / R300 CLASS 10
of the auxiliary switch required contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release	
of the auxiliary switch required contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class	CLASS 10
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of the auxiliary switch required contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings	CLASS 10 thermal 25 A
of the auxiliary switch required contact rating of auxiliary contacts according to UL 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
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of the auxiliary switch required contact rating of auxiliary contacts according to UL 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	CLASS 10 thermal 25 A 25 A
of the auxiliary switch required contact rating of auxiliary contacts according to UL 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	CLASS 10 thermal 25 A 25 A 25 A fuse gG: 6 A, quick: 10 A any Contactor mounting
of the auxiliary switch required contact rating of auxiliary contacts according to UL 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	CLASS 10 thermal 25 A 25 A 25 A 4 5 A 5 5 A 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
of the auxiliary switch required contact rating of auxiliary contacts according to UL 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	CLASS 10 thermal 25 A 25 A 25 A 7 Loss any Contactor mounting 90 mm 55 mm
of the auxiliary switch required contact rating of auxiliary contacts according to UL 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 25 A 25 A 25 A 40 fuse gG: 6 A, quick: 10 A any Contactor mounting 90 mm
of the auxiliary switch required contact rating of auxiliary contacts according to UL 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	CLASS 10 thermal 25 A 25 A 25 A 25 A fuse gG: 6 A, quick: 10 A any Contactor mounting 90 mm 55 mm 105 mm
of the auxiliary switch required contact rating of auxiliary contacts according to UL 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	CLASS 10 thermal 25 A 25 A 25 A 7 use gG: 6 A, quick: 10 A any Contactor mounting 90 mm 55 mm
of the auxiliary switch required contact rating of auxiliary contacts according to UL 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	CLASS 10 thermal 25 A 25 A 25 A 7 Units gG: 6 A, quick: 10 A any Contactor mounting 90 mm 55 mm 105 mm
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type of connectable cone	ductor cross-section	s					
for auxiliary contacts							
— solid or stranded			2x (0.5 1.5 mm²), 2x (0.75 .	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 ti	-		Pozidriv PZ 2				
design of the thread of the connection screw			MC				
for main contacts			M6 M3				
of the auxiliary and control contacts afety related data			M3				
-	nual or service life acco	ording to IEC	20 a				
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 f	front according to IE	C 60529	finger-safe, for vertical contac	t from the front			
Display							
display version for switchir	ng status		Slide switch				
Certificates/ approvals							
General Product Approv	al			For use in hazardous	s locations		
Confirmation		ŝ	r 11 r	IFCF.			
	(m)	(VL)	FHI	IECEX	(£x)		
	CCC	UL	LIIL	IECEx	ATEX		
Declaration of Conformi	ty	Test Certificat	tes	Marine / Shipping			
		Type Test Ce	rtific- Special Test Certific-		(SU VE)		
ŬK	(f)	ates/Test Re		States 2	E LE		
				a succession			
	EG-Konf.			ABS	BUREAU		
					TENTING		
Marine / Shipping					other		
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DNV	LRS	PRS	RINA	RMRS			
Railway							
Special Test Certific- ate							
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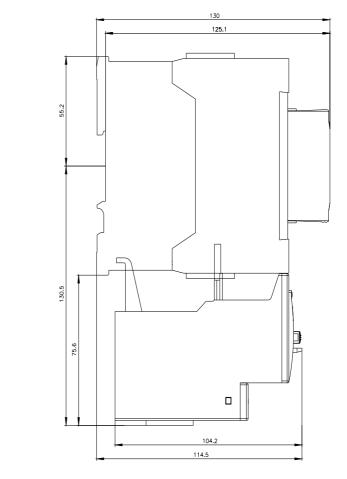
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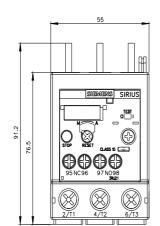
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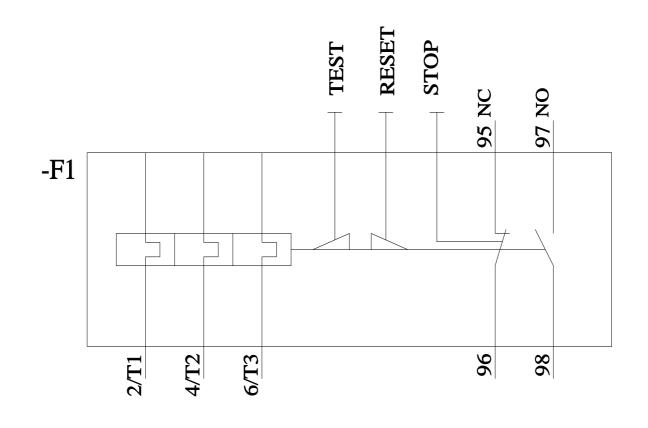
Characteristic: Tripping characteristics, I2t, Let-through current

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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







last modified:

3/8/2022 🖸