SIEMENS

Data sheet

3RU2126-1KB0



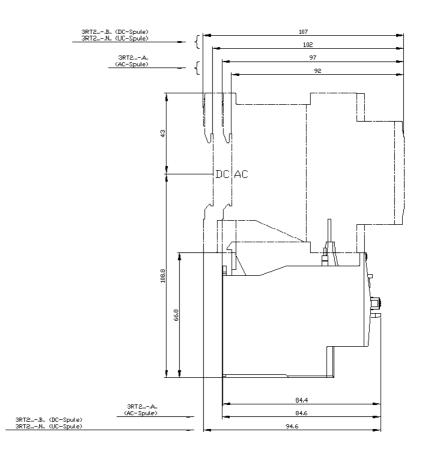
Overload relay 9.0...12.5 A Thermal For motor protection Size S0, Class 10 Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

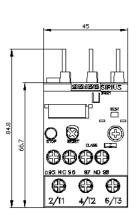
product brand name	SIRIUS			
product designation	thermal overload relay			
product type designation	3RU2			
General technical data				
size of overload relay	SO			
size of contactor can be combined company-specific	SO			
power loss [W] for rated value of the current at AC in hot operating state	6.6 W			
• per pole	2.2 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 safe isolation in networks with grounded star point				
 between auxiliary and auxiliary circuit 	440 V			
 between auxiliary and auxiliary circuit 	440 V			
 between main and auxiliary circuit 	440 V			
 between main and auxiliary circuit 	440 V			
shock resistance acc. 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 acc. to IEC 81346-2	F			
Substance Prohibitance (Date)	01.10.2009 00:00:00			
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	9 12.5 A			
operating voltage				
rated value	690 V			
• at AC-3 rated value maximum	690 V			
operating frequency rated value	50 60 Hz			

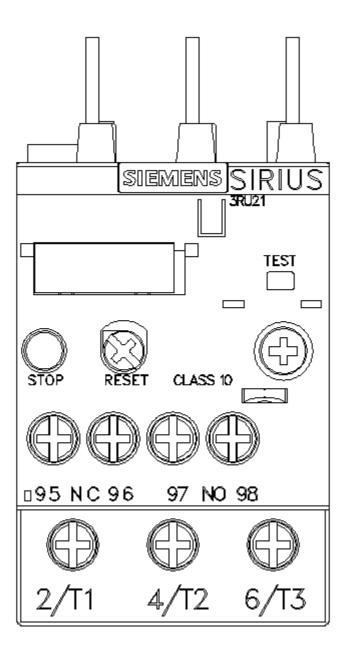
operational current rated value	12.5 A		
operating power at AC-3			
• at 400 V rated value	5.5 kW		
 at 500 V rated value 	7.5 kW		
 at 690 V rated value 	7.5 kW		
Auxiliary circuit			
design of the auxiliary switch	integrated		
number of NC contacts for auxiliary contacts	1		
• note	for contactor disconnection		
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 110 V	3 A		
• at 120 V	3 A		
• at 125 V	3 A		
• at 230 V	2 A		
• at 400 V	1A		
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		
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	ucina		
full-load current (FLA) for 3-phase AC motor			
at 480 V rated value	12.5 A		
• at 600 V rated value	12.5 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 Contactor mounting		
fastening method	Contactor mounting		
height	85 mm		
width	45 mm		
depth	85 mm		
Connections/ Terminals			
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 2,5 mm²), 2x (2,5 10 mm²)		
 — finely stranded with core end processing 	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²		
at AWG cables for main contacts	2x (16 12), 2x (14 8)		
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 2.5 mm ²)		

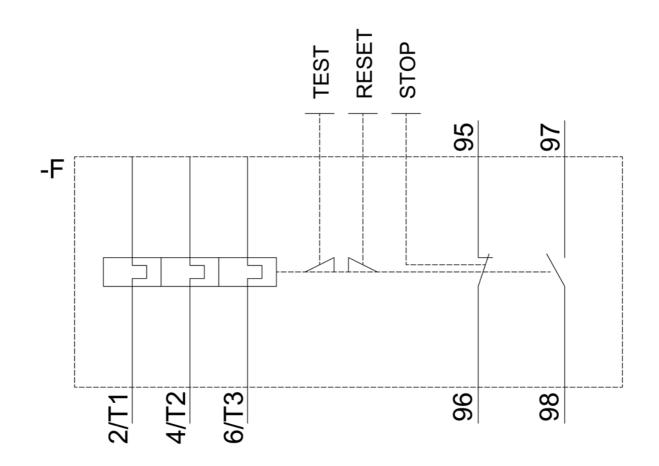
a at AVA/C applica	for ouviliant contacts		214 (2)	0 10 0 (10 11)			
	for auxiliary contacts		ZX (2	0 16), 2x (18 14)			
tightening torque		2 2	2 2.5 N·m				
 for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals 			2 2.5 N·m 0.8 1.2 N·m				
design of screwdriver shaft			eter 5 6 mm				
size of the screwdriver tip			Pozidriv PZ 2				
	of the connection sc	rew					
 for main contact 			M4	M4			
 of the auxiliary and control contacts 			M3				
Safety related data							
failure rate [FIT] with low demand rate acc. to SN 31920			50 FIT				
MTTF with high demand rate			2 280 y				
T1 value for proof test interval or service life acc. to IEC 61508			20 y				
protection class IP	on the front acc. to IE	C 60529	IP20	IP20			
touch protection on	the front acc. to IEC	60529	finger	finger-safe, for vertical contact from the front			
Display							
display version for sw	vitching status		Slide	switch			
Certificates/ approval	s						
General Product Ap	proval				For use in hazardo	ous locations	
SP SA		(U) u		EHC	Ex	IECEx	
Declaration of Conformity	Test Certificates			Marine / Shipping			
CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Ce</u> <u>ate</u>	<u>ertific-</u>	ABS	B D REAU VERITAS	Lloyd's Register Lis	
Marine / Shipping					other	Railway	
						-	
PRS	RINA	RMRS		DNV-GL	<u>Confirmation</u>	<u>Vibration and Shock</u>	
Further information							
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=3RU2126-1KB0							
Cax online generator							
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2126-1KB0							
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-1KB0							
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)							
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2126-1KB0⟨=en							
Characteristic: Tripping characteristics, I ² t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-1KB0/char							
Further characteristics (e.g. electrical endurance, switching frequency)							

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-1KB0&objecttype=14&gridview=view1









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