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

was doned in some		
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 ratedvalue	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	
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	

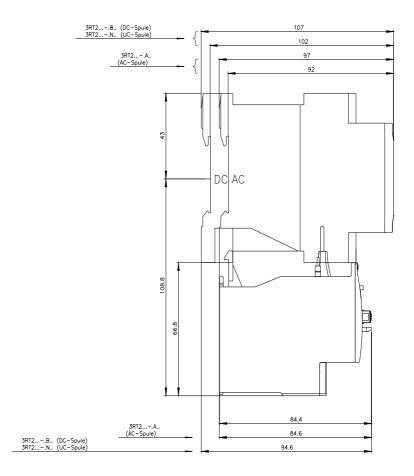
operational current rated value	12.5 A
operating power at AC-3	
• at 400 V rated value	5.5 kW
 at 500 V rated value 	7.5 kW
 at 690 V rated value 	7.5 kW
Auxiliary circuit	
design of the auxiliary switch	integrated
number of NC contacts for auxiliary contacts	1
• note	for contactor disconnection
number 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	uema
full-load current (FLA) for 3-phase AC motor	10 5 4
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)

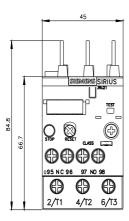
 at AWG cables for 	r auxiliary contacts		2x (20 16), 2x (18 14)		
tightening torque	-				
 for main contacts with screw-type terminals 		2 2.5 N·m			
 for auxiliary contacts with screw-type terminals 		0.8 1.2 N·m			
design of screwdriver shaft		Diameter 5 6 mm			
size of the screwdriver tip		Pozidriv PZ 2			
design of the thread of	f the connection sc	rew			
• for main contacts		M4			
 of the auxiliary and control contacts 		M3			
Safety related data					
failure rate [FIT] with lov	w demand rate acc. t	o SN 31920	50 FIT		
MTTF with high deman	nd rate		2 280 y		
T1 value for proof test interval or service life acc. to IEC 61508		20 у			
protection class IP on	the front acc. to IE	C 60529	IP20		
touch protection on th	e front acc. to IEC	60529	finger-safe, for vertical cont	act from the front	
Display					
display version for switc	hing status		Slide switch		
Certificates/ approvals					
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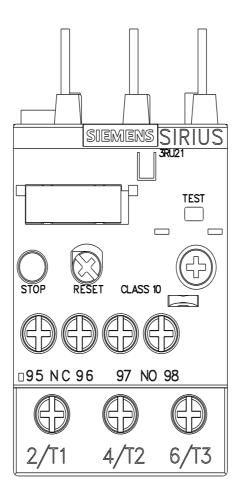
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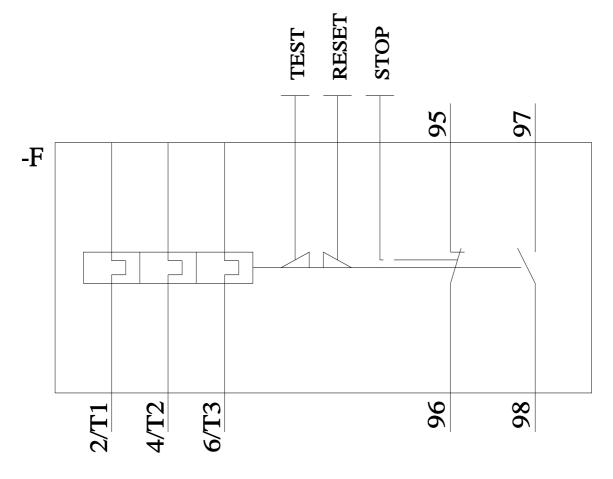
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Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-1KB0/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-1KB0&objecttype=14&gridview=view1









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