SIEMENS

Data sheet

3RU2126-1DB0



Overload relay 2.2...3.2 A Thermal For motor protection Size S0, Class 10 Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

and both have descent	
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	5.7 W
• per pole	1.9 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 	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 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)	10/01/2009
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	2.2 3.2 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	3.2 A
operational current at AC-3e at 400 V rated value	3.2 A
operating power	

• at AC-3			
— at 400 V rated value	1.1 kW		
— at 500 V rated value	1.5 kW		
— at 690 V rated value	2.2 kW		
• at AC-3e			
— at 400 V rated value	1.1 kW		
— at 500 V rated value	1.5 kW		
— at 690 V rated value	2.2 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	0		
• 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		
contact rating of auxiliary contacts according to UL	B600 / R300		
Protective and monitoring functions			
Protective and monitoring functions trip class	CLASS 10		
trip class			
trip class design of the overload release	CLASS 10 thermal		
trip class design of the overload release UL/CSA ratings			
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	thermal		
trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value	thermal 3.2 A		
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	thermal		
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	thermal 3.2 A		
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	thermal 3.2 A 3.2 A		
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 solid or stranded finely stranded with core end processing for AWG cables for auxiliary contacts tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main contacts of the auxiliary and control contacts Safety related data failure rate [FIT] with low demand rate according to SN 31920 MTTF with high demand rate T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 	2x (0.5 1.5 mm ²), 2x (0.75 2x (0.5 1.5 mm ²), 2x (0.75 2x (20 16), 2x (18 14) 2 2.5 N·m 0.8 1.2 N·m Diameter 5 6 mm Pozidriv PZ 2 M4 M3 50 FIT 2 280 a 20 a IP20	. 2.5 mm²)		
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			
display version for switching status Certificates/ approvals				
General Product Approval		For use in hazardous	locations	
	EHC	KEX ATEX	IECEx	
Declaration of Conformity Test Certificate	es	Marine / Shipping		
UK CA EG-Konf. Special Test Ce ate	ertific- <u>Type Test Certific-</u> <u>ates/Test Report</u>	ABS	BUREAU VERITAS	
Marine / Shipping			other	
UNV LRS PRS	RINA	RMRS RMRS	<u>Confirmation</u>	
other Railway				
Vibration and Shock				
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=3RU2126-1DB0 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2126-1DB0				

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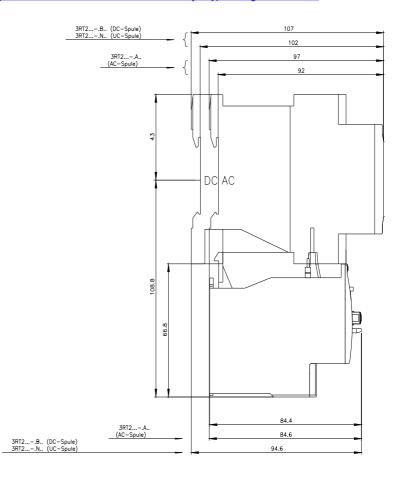
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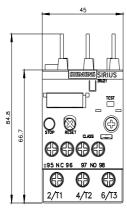
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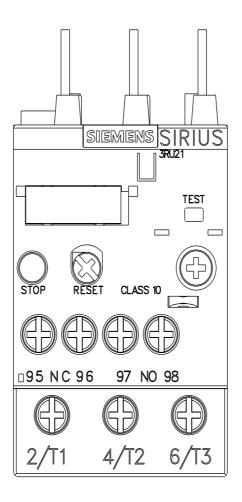
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2126-1DB0&lang=en Characteristic: Tripping characteristics, I2t, Let-through current

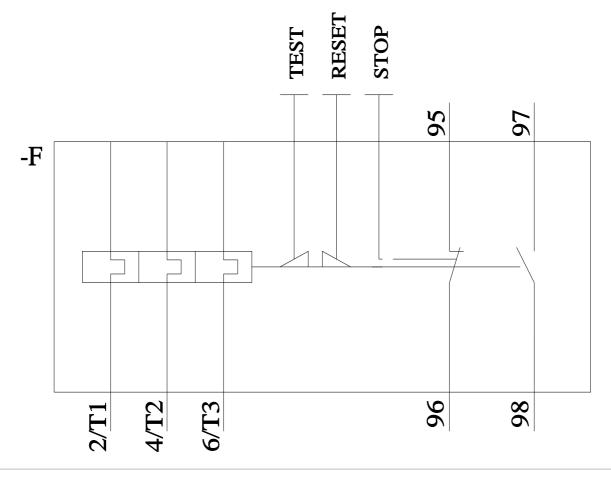
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Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-1DB0&objecttype=14&gridview=view1









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