SIEMENS

Data sheet

3RU2126-4AB0



Overload relay 11...16 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	S0
size of contactor can be combined company-specific	S0
power loss [W] for rated value of the current at AC in hot operating state	8.1 W
• per pole	2.7 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 ungrounded 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 ungrounded star point between main and auxiliary circuit 	440 V
 in networks with grounded star point between main and auxiliary circuit 	440 V
shock resistance according to IEC 60068-2-27	8g / 11 ms
reference code according to IEC 81346-2	F
Substance Prohibitance (Date)	10/01/2009
SVHC substance name	Lead - 7439-92-1
Weight	0.18 kg
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	11 16 A
operating voltage	
rated value	690 V
• at AC-3e rated value maximum	690 V
operating frequency rated value	50 0011-
	50 60 Hz

	16.4
operational current at AC-3e at 400 V rated value	16 A
operating power	
• at AC-3	
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	11 kW
• at AC-3e	7.5111
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	11 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	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 Protective and monitoring functions	B600 / R300
trip class	CLASS 10
design of the overload release	thermal
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	16 A
	16 A 16 A
full-load current (FLA) for 3-phase AC motor • at 480 V rated value	16 A 16 A
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection	
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	16 A
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	
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	16 A fuse gG: 6 A, quick: 10 A
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	16 A fuse gG: 6 A, quick: 10 A any
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	16 A fuse gG: 6 A, quick: 10 A
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	16 A fuse gG: 6 A, quick: 10 A any Contactor mounting
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	16 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm
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	16 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm
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	16 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm
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	16 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm 85 mm
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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 • for main current circuit	16 A fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm 85 mm No No
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type of connectable con	ductor cross-section	16				
		15				
 for auxiliary contacts 						
 — solid or strand 	ed		2x (0.5	1.5 mm²), 2x (0.75	. 2.5 mm²)	
 finely stranded 	with core end proces	ssing	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 	ith screw-type termina	als	2 2.5	5 N·m		
 for auxiliary contacts with screw-type terminals 		0.8 1	1.2 N·m			
design of screwdriver shaft		Diameter 5 6 mm				
size of the screwdriver tip		Pozidri	iv PZ 2			
design of the thread of th	he connection screw	/				
 for main contacts 			M4			
• of the auxiliary and control contacts		M3				
afety related data						
failure rate [FIT] with low demand rate according to SN 31920		50 FIT				
MTTF with high demand	rate		2 280 a	a		
IEC 61508						
T1 value						
 for proof test interva 61508 	al or service life accor	ding to IEC	20 a			
Electrical Safety						
protection class IP on th			IP20			
touch protection on the	front according to IE	C 60529	finger-s	safe, for vertical contact	from the front	
isplay						
display version for switchir	ng status		Slide sv	witch		
pprovals Certificates						
CE	UK	())	Confirmation	(l)	FAL
C E EG-Konf.	UK CA)	<u>Confirmation</u>		EHC
EG-Konf.		CCC)	Confirmation Test Certificates	(U) UL	ERIC Marine / Shipping
		Miscellaneor	<u>us</u>		Uppe Test Certific- ates/Test Report	ERIC Marine / Shipping
For use in hazardous loo		Miscellaneor	<u>us</u>	Test Certificates		ERC Marine / Shipping
For use in hazardous loo		Miscellaneou	<u>US</u>	Test Certificates		ERC Marine / Shipping \widetilde{ABS}
For use in hazardous loc IECEX IECEX Marine / Shipping	cations	Lloyds Register	US	Test Certificates		ERC Marine / Shipping ABS
For use in hazardous loo IECEX IECEX Marine / Shipping	cations	Lloyds Kegister urs		Test Certificates Special Test Certific- ate		ERC Marine / Shipping ABS
For use in hazardous loo ECEX IECEX Marine / Shipping BUREAU BUREAU Niscellaneous	cations	Lloyds Register LRS Railway Special Test Ce		Test Certificates Special Test Certific- ate	ates/Test Report	ERC Marine / Shipping ABS
For use in hazardous loo ECEX IECEX Marine / Shipping BUREAU VERITAS other Miscellaneous urther information Information on the packa	cations	Railway Special Test Ce ate		Test Certificates Special Test Certific- ate	ates/Test Report	ERC Marine / Shipping Cook ABS
For use in hazardous loo ECEX IECEX Marine / Shipping UREAU VERITAS other Miscellaneous urther information Information on the packa https://support.industry.sie	cations	Railway Special Test Ce ate		Test Certificates Special Test Certific- ate	ates/Test Report	ERC Marine / Shipping
For use in hazardous loo ECEX IECEX Marine / Shipping BUREAU VERITAS other Miscellaneous urther information Information on the packa	cations	Railway Special Test Ce ate		Test Certificates Special Test Certific- ate	ates/Test Report	ERC Marine / Shipping

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2126-4AB0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

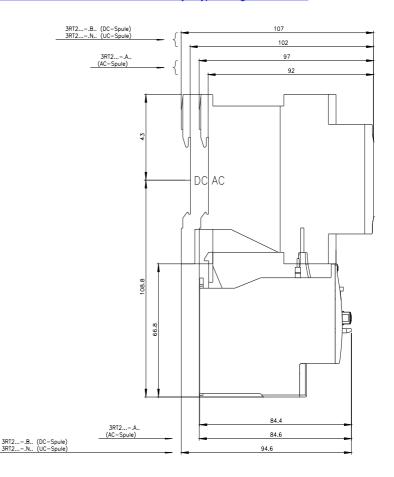
https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4AB0

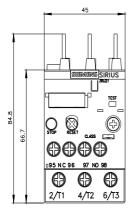
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2126-4AB0&lang=en

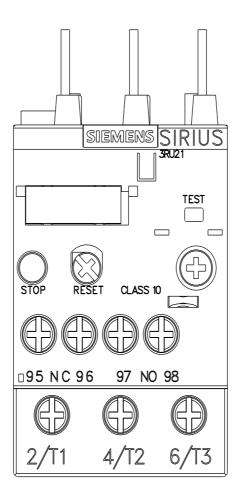
Characteristic: Tripping characteristics, I2t, Let-through current

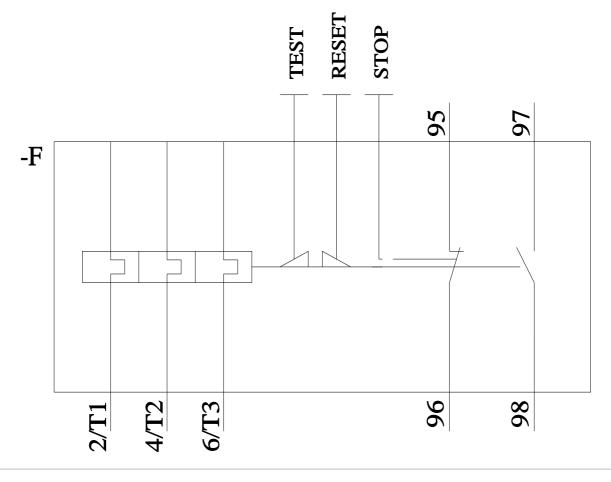
https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4AB0/char Further characteristics (e.g. electrical endurance, switching frequency)

arch&mlfb=3RU2126-4AB0&objecttype=14&gridview=view1 http://www.automation.siemens.com/bilddb/index.aspx?view=S









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