SIEMENS

Data sheet

3RU2126-4CB1



Overload relay 17...22 A Thermal For motor protection Size S0, Class 10 Stand-alone installation 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 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 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	17 22 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	22 A
operational current at AC-3e at 400 V rated value	22 A

operating power	
• at AC-3	22 I I I I
— at 400 V rated value	11 kW
— at 500 V rated value	11 kW
— at 690 V rated value	18.5 kW
• at AC-3e	44 1384
— at 400 V rated value	11 kW
— at 500 V rated value	11 kW
— at 690 V rated value	18.5 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	
• note	for message "Tripped"
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	2.4
• at 24 V	3 A 2 A
• at 110 V	3 A 2 A
● at 120 V ● at 125 V	3 A 3 A
• at 125 V • at 230 V	2 A
• at 230 V • at 400 V	2 A 1 A
• at 690 V	0.75 A
operational current of auxiliary contacts at DC-13	0.75 A
• 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
	thermal
UL/CSA ratings	thermal
	thermal
UL/CSA ratings full-load current (FLA) for 3-phase AC motor	
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value	22 A
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	22 A
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	22 A 22 A
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	22 A
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	22 A 22 A
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	22 A 22 A fuse gG: 6 A, quick: 10 A
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	22 A 22 A
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	22 A 22 A fuse gG: 6 A, quick: 10 A any
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	22 A 22 A fuse gG: 6 A, quick: 10 A any stand-alone installation
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	22 A 22 A fuse gG: 6 A, quick: 10 A any stand-alone installation 97 mm
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	22 A 22 A fuse gG: 6 A, quick: 10 A any stand-alone installation 97 mm 45 mm
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	22 A 22 A fuse gG: 6 A, quick: 10 A any stand-alone installation 97 mm 45 mm
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	22 A 22 A fuse gG: 6 A, quick: 10 A any stand-alone installation 97 mm 45 mm 95 mm
UL/CSA ratings • 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	22 A 22 A fuse gG: 6 A, quick: 10 A any stand-alone installation 97 mm 45 mm 95 mm
UL/CSA ratings • 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	22 A 22 A fuse gG: 6 A, quick: 10 A any stand-alone installation 97 mm 45 mm 95 mm
UL/CSA ratings • 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	22 A 22 A fuse gG: 6 A, quick: 10 A any stand-alone installation 97 mm 45 mm 95 mm No No
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 • for main current circuit • for auxiliary and control circuit	22 A 22 A fuse gG: 6 A, quick: 10 A any stand-alone installation 97 mm 45 mm 95 mm No No screw-type terminals screw-type terminals
UL/CSA ratings • 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 • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main	22 A 22 A fuse gG: 6 A, quick: 10 A any stand-alone installation 97 mm 45 mm 95 mm No No screw-type terminals screw-type terminals Top and bottom 1x (1 2,5 mm ²), 1x (2,5 10 mm ²)
UL/CSA ratings • 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 • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main current circuit	22 A 22 A fuse gG: 6 A, quick: 10 A any stand-alone installation 97 mm 45 mm 95 mm No No screw-type terminals screw-type terminals Top and bottom
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 • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main current circuit • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections	22 A 22 A fuse gG: 6 A, quick: 10 A any stand-alone installation 97 mm 45 mm 95 mm No No screw-type terminals screw-type terminals Top and bottom 1x (1 2,5 mm ²), 1x (2,5 10 mm ²)
UL/CSA ratings • 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 • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main current circuit upped connectable conductor cross-sections for main current circuit width of the fully stranded with core end processing	22 A 22 A fuse gG: 6 A, quick: 10 A any stand-alone installation 97 mm 45 mm 95 mm No No screw-type terminals screw-type terminals Top and bottom 1x (1 2,5 mm ²), 1x (2,5 10 mm ²)

 at AWG cables tightening torque for main contact for auxiliary condesign of screwdrive size of the screwdrive design of the thread for main contact of the auxiliary Safety related data 	ver tip d of the connection scre	als minals w	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	5 2.5 mm²)	
MTTF with high demand rate T1 value for proof test interval or service life according to IEC 61508		2 280 a 20 a			
protection class IP (60529	on the front according to	o IEC	IP20		
	the front according to I	EC 60529	finger-safe, for vertical conta	act from the front	
Display					
display version for sw	-		Slide switch		
Certificates/ approva	IS				For use in hazard-
General Product A	pproval				ous locations
(1)	(m)	<u>Confirmatio</u>	<u> </u>	rnr	IECE
				EHC	IECEx
For use in hazard- ous locations	Declaration of Confor	rmity	Test Certificates	EHL	IECE×
		rmity CE EG-Konf.	Test Certificates Special Test Certificates	LHL	
		CE	Special Test Certific-	Type Test Certific-	
ous locations		CE	Special Test Certific-	Type Test Certific-	
ous locations	Declaration of Confor	EG-Konf.	Special Test Certific-	Type Test Certific-	

 Further information

 Information on the packaging

 https://support.industry.siemens.com/cs/ww/en/view/109813875

 Information- and Downloadcenter (Catalogs, Brochures,...)

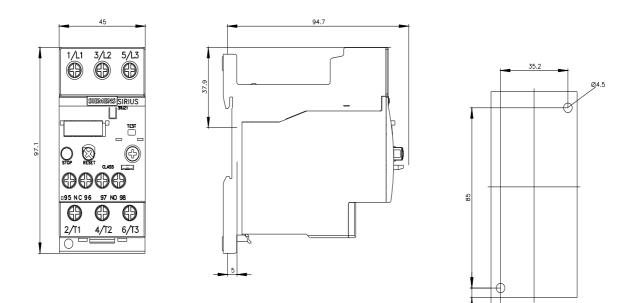
 https://www.siemens.com/ic10

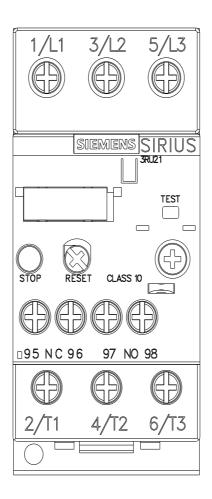
 Industry Mall (Online ordering system)

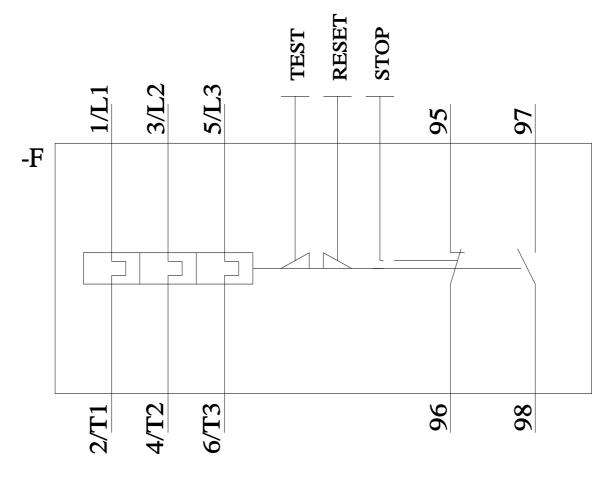
 https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU2126-4CB1

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2126-4CB1 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4CB1 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2126-4CB1&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4CB1/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-4CB1&objecttype=14&gridview=view1







last modified:

3/8/2022 🖸