SIEMENS

Data sheet

3RU2126-4DB1



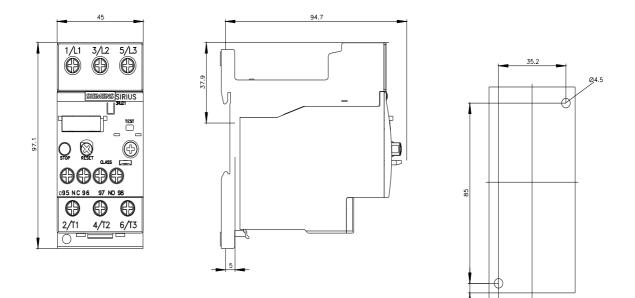
Overload relay 20...25 A Thermal For motor protection Size S0, Class 10 Standalone installation Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

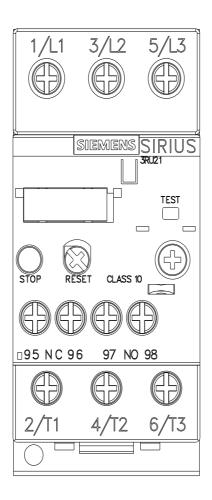
product brand name	SIRIUS		
product designation	thermal overload relay		
product type designation	3RU2		
General technical data			
size of overload relay	S0		
size of contactor can be combined company-specific	S0		
power loss [W] for rated value of the current at AC in hot operating state	8.1 W		
• per 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 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	20 25 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	25 A		
operational current at AC-3e at 400 V rated value	25 A		
operating power			

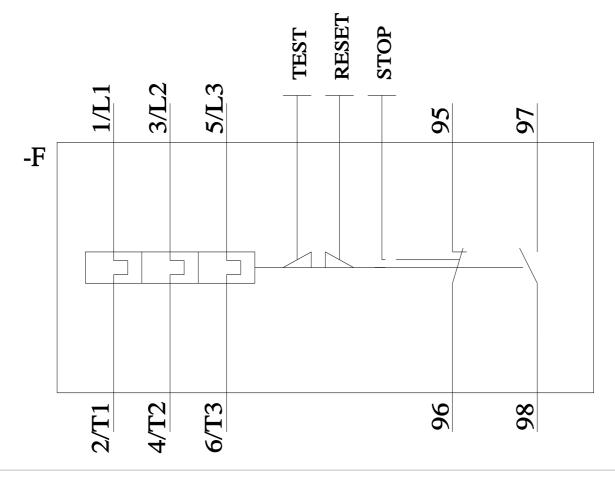
• at AC-3				
— at 400 V rated value	11 kW			
— at 500 V rated value	15 kW			
— at 690 V rated value	22 kW			
• at AC-3e				
— at 400 V rated value	11 kW			
— at 500 V rated value	15 kW			
— at 690 V rated value	22 kW			
Auxiliary circuit				
design of the auxiliary switch	integrated			
number of NC 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 200 V	1A			
• at 690 V	0.75 A			
operational current of auxiliary contacts at DC-13				
• at 24 V	2 A			
• at 24 V	0.3 A			
• at 110 V	0.3 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	01.400.40			
trip class	CLASS 10			
design of the overload release	thermal			
UL/CSA ratings	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	25 A			
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value				
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value	25 A			
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value	25 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	25 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	25 A 25 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	25 A 25 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	25 A 25 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 Installation/ mounting/ dimensions mounting position 	25 A 25 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 fastening method	25 A 25 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	25 A 25 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	25 A 25 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	25 A 25 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 and	25 A 25 A fuse gG: 6 A, quick: 10 A any stand-alone installation 97 mm 45 mm 95 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 and control circuit	25 A 25 A fuse gG: 6 A, quick: 10 A any stand-alone installation 97 mm 45 mm 95 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 and control circuit type of electrical connection	25 A 25 A fuse gG: 6 A, quick: 10 A any stand-alone installation 97 mm 45 mm 95 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 and control circuit type of electrical connection • for main current circuit	25 A 25 A 7 use gG: 6 A, quick: 10 A any stand-alone installation 97 mm 45 mm 95 mm Vo			
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	25 A 25 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 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 arrangement of electrical connectors for main current circuit	25 A 25 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 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	25 A 25 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 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 contacts	25 A 25 A 25 A fuse gG: 6 A, quick: 10 A any stand-alone installation 97 mm 45 mm 95 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 arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded	25 A 25 A 25 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) 2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ²			
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 contacts - solid or stranded - finely stranded with core end processing	25 A 25 A 15 A 15 se gG: 6 A, quick: 10 A any stand-alone installation 97 mm 45 mm 95 mm 95 mm No No screw-type terminals screw-type terminals 17 op and bottom 1x (1 2,5 mm ²), 1x (2,5 10 mm ²)			
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 contacts — solid or stranded — finely stranded with core end processing • for AWG cables for main contacts	25 A 25 A 1 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) 2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ²			

— solid or stranded — finely stranded with c			2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14)				
for AWG cables for auxiliar	ry contacts		2X (20 16), 2	x (18 14)			
tightening torque			0.05N				
	• 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 the con	nection screw						
 for main contacts 	contacts N			M4			
 of the auxiliary and control 	contacts		M3				
Safety related data							
failure rate [FIT] with low demand	d rate according to S	SN 31920	50 FIT				
MTTF with high demand rate			2 280 a	2 280 a			
T1 value for proof test interval or 61508	service life accordi	ng to IEC	20 a				
protection class IP on the front	t according to IEC	60529	IP20				
touch protection on the front a	ccording to IEC 60)529	finger-safe, for	vertical contact f	from the front		
Display							
display version for switching statu	us		Slide switch				
Certificates/ approvals							
General Product Approval					For use in hazardous	locations	
	<u>nfirmation</u>	Ŵ	E	AC	KEX ATEX	IECEX	
Declaration of Conformity	1	Fest Certificate	es		Marine / Shipping		
C C EG-Konf.	JK [°]	<u>Special Test Ce</u> <u>ate</u>		<u>Fest Certific-</u> Test Report	ABS	BUREAU	
Marine / Shipping						other	
	Llovdis Legister Liks	PRS	(RINA	RMRS	<u>Confirmation</u>	
other Railwa	IV.						
	on 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							
https://mall.industry.siemens.com	n/mall/en/en/Catalog	g/product?mlfb:	<u>=3RU2126-4DB1</u>				
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2126-4DB1							

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4DB1 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2126-4DB1&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4DB1/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-4DB1&objecttype=14&gridview=view1







last modified:

3/8/2022 🖸