SIEMENS

Data sheet

3RU2146-4KB0



Overload relay 57...75 A Thermal For motor protection Size S3, Class 10 Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

product brand name SIRIUS product designation thermal overload relay size of overload relay S3 size of contactor can be combined company-specific S3 size of contactor can be combined company-specific S3 operating state S3 operating state S3 operating state S3W insulation voltage with degree of pollution 3 at AC rated value 1000 V surge voltage resistance rated value B kV maximum permissible voltage for protective separation in networks with grounded star point 440 V • between main and auxiliary circuit 40 V • between		
product type designation 3RU2 Central tachnical data	product brand name	SIRIUS
Ceneral technical data S3 size of overload relay S3 size of contactor can be combined company-specific S3 power loss [W] for rated value of the current at AC in hot operating state 18.9 W • per pole 6.3 W insulation voltage with degree of pollution 3 at AC rated value 1000 V surge voltage resistance rated value 8 kV maximum permissible voltage for protective separation in networks with grounded star point 440 V • between auxiliary and auxiliary circuit 440 V • between main and auxiliary circuit 440 V • between main and auxiliary circuit 440 V • between main and auxiliary circuit 440 V • between auxiliary and uxiliary circuit 440 V • between main and auxiliary circuit 440 V • between auxiliary according to IEC 8068-227 8g /11 ms Type of protection according to IEC 8068-227 8g /11 ms Type of protection according to IEC 81342-E F Substance Prohibitance (Date) 03/01/2017 Ambient conditions 100.1970/170 Installation altidud at height above sea level maximum 2000 m ambient temperature -40 470 °C • during transport -55	product designation	thermal overload relay
size of overload relay S3 size of contactor can be combined company-specific S3 power loss (W) for rated value of the current at AC in hot 18.9 W • per pole 6.3 W insulation voltage with degree of pollution 3 at AC rated value 8.4 W surge voltage resistance rated value 8.4 W maximum permissible voltage for protective separation in networks with grounded star point 440 V • between auxiliary and auxiliary circuit 440 V • between main and auxiliary circuit 440 V • between read there the current 2014/3/EU Exil (2) GD certificate of suitability according to ATEX directive 2014/3/EU DMT 98 ATEX G 001 reference code according to IEC 8088-22 F substance Prohibitance (Date) 03001/2017 Ambient conditions -40 +70 "C • during storage -55 +80 "C	product type designation	3RU2
size of contactor can be combined company-specific S3 power loss [W] for rated value of the current at AC in hot operating state 18.9 W • per pole 6.3 W Insulation voltage with degree of pollution 3 at AC rated value 8 kV surge voltage resistance rated value 8 kV maximum parmissible voltage for protective separation in networks with grounded star point 440 V • between auxiliary and auxiliary circuit 440 V • between main and auxiliary circuit 440 V • between auxiliary and auxiliary circuit 440 V • between auxiliary and auxiliary circuit 440 V • between auxiliary circuit 440 V • between auxiliary circuit 90 /11 ms type of protection according to ATEX tractive 2014/34/EU Ext II (2) GD reference code according to ATEX tractive 2014/34	General technical data	
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insulation voltage with degree of pollution 3 at AC rated value 1 000 V surge voltage resistance rated value 8 kV maximum permissible voltage for protective separation in networks with grounded star point 440 V • between auxiliary and auxiliary circuit 440 V • between main and auxiliary circuit 440 V • between auxiliary circuit 58 / 11 ms type of protection according to ATEX directive 2014/34/EU DKT 98 ATEX G 001 reference code according to IEC 81346-2 F Substance Prohibitance (Date) 03/01/2017 Ambien		18.9 W
surge voltage resistance rated value 8 kV maximum permissible voltage for protective separation in networks with grounded star point 440 V • between auxiliary and auxiliary circuit 440 V • between main and auxiliary circuit 440 V • between auxiliary circuit 440 V • stock resistance according to IEC 60068-227 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 • installation altitude at height above sea level maximum 2 000 m • antition attricute -40 +70 °C<	• per pole	6.3 W
maximum permissible voltage for protective separation in networks with grounded star point 440 V • between auxiliary and auxiliary circuit 440 V • between main and auxiliary circuit 40 V • between main and auxiliary circuit 40 V • protection according to IEC 60068-2-27 8g / 11 ms • protection according to ATEX directive 2014/34/EU DMT 98 ATEX G 001 • reference code according to IEC 81346-2 F • substance Prohibitance (Date) 03/01/2017	insulation voltage with degree of pollution 3 at AC rated value	1 000 V
networks with grounded star point 440 V • between auxiliary and auxiliary circuit 440 V • between main and auxiliary circuit 440 V • between according to ATEX directive 2014/34/EU Ex II (2) GD certificate of suitability 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) 03/01/2017 Ambient temperature 0 • during operation 40 +70 °C • during storage -55 +80 °C • during transport -55 +80 °C temperature compensation 10 95 % Main circuit 3 adjustable current response value current of the current-dependent overload release 690 V • rated value 690 V • at AC-3e rated value maximum 1000 V operating frequency rated value 75 A <th>surge voltage resistance rated value</th> <th>8 kV</th>	surge voltage resistance rated value	8 kV
between 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 DMT 98 ATEX G 001 reference code according to ATEX directive 2014/34/EU DMT 98 ATEX G 001 reference code according to IEC 81346-2 F Substance Prohibitance (Date) dou/1/2017 Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation -40 +70 °C oduring transport e during transport for C relative humidity during operation -40 +70 °C relative humidity during operation -40 +70 °C relative humidity during operation -40 +70 °C relative humidity during operation -40 +70 °C relative humidity during operation -55 +80 °C temperature compensation -40 +70 °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- deport of release operating roluease i tabellation altitude 500 V i at AC-3e rated value 690 V i at AC-3e rated value 50 60 Hz operating frequency rated value 50 60 Hz operational current rated value 75 A operational current rated value 75 A		
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• between main and auxiliary circuit • between main and auxiliary circuit • 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) 03/01/2017 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature • during operation • during transport • during transport • during transport • during transport • -55 +80 °C • -55 +50 °C • -55 +50 °C •	 between auxiliary 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) 03/01/2017 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -40 +70 °C • during operation -40 +70 °C • during storage -55 +80 °C • during transport -55 +80 °C • during operation 40 +60 °C relative humidity during operation 10 95 % Main circuit 3 adjustable current response value current of the current-dependent overload release 690 V • at AC-3e rated value 690 V • at AC-3e rated value 50 60 Hz operating requency rated value 50 60 Hz operational current rated value 75 A	 between main and auxiliary circuit 	440 V
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) 03/01/2017 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -40 +70 °C • during operation -40 +70 °C • during storage -55 +80 °C • during transport -55 +80 °C temperature compensation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 690 V • at AC-3e rated value 690 V • at AC-3e rated value 50 60 Hz operating frequency rated value 50 60 Hz operational current at AC-3e at 400 V rated value 75 A	 between main and auxiliary circuit 	440 V
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) 03/01/2017 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -40 +70 °C • 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 3 number of poles for main current circuit 3 adjustable current response value current of the current- 690 V • at AC-3e rated value 690 V • at AC-3e rated value 50 60 Hz operating frequency rated value 50 60 Hz operational current at AC-3e at 400 V rated value 75 A	shock resistance according to IEC 60068-2-27	8g / 11 ms
reference code according to IEC 81346-2 F Substance Prohibitance (Date) 03/01/2017 Ambient conditions	type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
Substance Prohibitance (Date) 03/01/2017 Ambient conditions 2 000 m ambient temperature -40 +70 °C • 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 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 690 V • at AC-3e rated value 690 V • at AC-3e rated value 50 60 Hz operating frequency rated value 50 60 Hz operational current at AC-3e at 400 V rated value 75 A	certificate of suitability according to ATEX directive 2014/34/EU	DMT 98 ATEX G 001
Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature -40 +70 °C • 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 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 57 75 A operating voltage 690 V • at AC-3e rated value maximum 1 000 V operating frequency rated value 50 60 Hz operational current rated value 75 A	reference code according to IEC 81346-2	F
installation altitude at height above sea level maximum 2 000 m ambient temperature -40 +70 °C • 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 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 57 75 A operating voltage 690 V • at AC-3e rated value maximum 1000 V operating frequency rated value 50 60 Hz operational current rated value 75 A	Substance Prohibitance (Date)	03/01/2017
ambient temperature -40 +70 °C • during storage -55 +80 °C • during transport -55 +80 °C • during transport -55 +80 °C temperature compensation -40 +60 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 57 75 A operating voltage 690 V • at AC-3e rated value maximum 1 000 V operating frequency rated value 50 60 Hz operational current at AC-3e at 400 V rated value 75 A	Ambient conditions	
• during operation-40 +70 °C• during storage-55 +80 °C• during transport-55 +80 °C• temperature compensation-40 +60 °Crelative humidity during operation10 95 %Main circuit3number of poles for main current circuit3adjustable current response value current of the current- dependent overload release57 75 Aoperating voltage690 V• at AC-3e rated value maximum1 000 Voperating frequency rated value50 60 Hzoperational current at AC-3e at 400 V rated value75 A	installation altitude at height above sea level maximum	2 000 m
• during storage -55 +80 °C • during transport -55 +80 °C temperature compensation -40 +60 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 57 75 A operating voltage 690 V • at AC-3e rated value maximum 1000 V operating frequency rated value 50 60 Hz operational current at AC-3e at 400 V rated value 75 A	ambient temperature	
• during transport -55 +80 °C temperature compensation -40 +60 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 57 75 A operating voltage 690 V • at AC-3e rated value maximum 1 000 V operating frequency rated value 50 60 Hz operational current rated value 75 A	 during operation 	-40 +70 °C
temperature compensation -40 +60 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 57 75 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 1 000 V operating frequency rated value 50 60 Hz operational current rated value 75 A	during storage	-55 +80 °C
relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 57 75 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 1 000 V operating frequency rated value 50 60 Hz operational current rated value 75 A	during transport	-55 +80 °C
Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 57 75 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 1 000 V operating frequency rated value 50 60 Hz operational current rated value 75 A operational current at AC-3e at 400 V rated value 75 A	temperature compensation	-40 +60 °C
number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 57 75 A operating voltage rated value 690 V at AC-3e rated value maximum 1000 V operating frequency rated value 50 60 Hz operational current rated value 75 A operational current at AC-3e at 400 V rated value 75 A	relative humidity during operation	10 95 %
adjustable current response value current of the current- 57 75 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 1 000 V operating frequency rated value 50 60 Hz operational current rated value 75 A operational current at AC-3e at 400 V rated value 75 A	Main circuit	
dependent overload release Image: Comparison of the second se	number of poles for main current circuit	3
• rated value 690 V • at AC-3e rated value maximum 1 000 V operating frequency rated value 50 60 Hz operational current rated value 75 A operational current at AC-3e at 400 V rated value 75 A	· ·	57 75 A
• at AC-3e rated value maximum 1 000 V operating frequency rated value 50 60 Hz operational current rated value 75 A operational current at AC-3e at 400 V rated value 75 A	operating voltage	
operating frequency rated value50 60 Hzoperational current rated value75 Aoperational current at AC-3e at 400 V rated value75 A	rated value	690 V
operational current rated value 75 A operational current at AC-3e at 400 V rated value 75 A	 at AC-3e rated value maximum 	1 000 V
operational current at AC-3e at 400 V rated value 75 A	operating frequency rated value	50 60 Hz
	operational current rated value	75 A
operating power	operational current at AC-3e at 400 V rated value	75 A
	operating power	

• at AC-3	27 1/11
— at 400 V rated value	37 kW
- at 500 V rated value	45 kW
— at 690 V rated value	55 kW
• at AC-3e	071144
— at 400 V rated value	37 kW
— at 500 V rated value	45 kW
— at 690 V rated value	55 kW
Auxiliary circuit	interested
design of the auxiliary switch	integrated
number of NC contacts for auxiliary contacts	
• 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
design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required	6A (SCC less than equal to 0.5 kA; U less than equal to 260V)
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	
full-load current (FLA) for 3-phase AC motor	
 at 480 V rated value 	65 A
• at 600 V rated value	62 A
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the main circuit 	
- with type of coordination 1 required	gG: 250 A
- with type of assignment 2 required	gG: 160 A
• for short-circuit protection of the auxiliary switch required	fuse gG: 6 A, quick: 10 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	Contactor mounting
height	105 mm
width	70 mm
depth	125 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 circuit	Top and bottom
type of connectable conductor cross-sections	
● for main contacts	

— solid			2x (2.5 16 mm²)		
- stranded			2x (6 16 mm²), 2x (10 50	mm²), 1x (10 70 mm²)	
- solid or stranded			2x (2,5 50 mm²), 1x (10 7	70 mm²)	
— finely stranded w	vith core end proces	sing	2x (2.5 35 mm ²), 1x (2.5 50 mm ²)		
 for AWG cables for mage 	ain contacts		2x (10 1/0), 1x (10 2/0)		
type of connectable condu	ctor cross-section	s			
 for auxiliary contacts 					
— solid or stranded			2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
- finely stranded with core end processing		sing	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)		
 for AWG cables for auxiliary contacts 		-	2x (20 16), 2x (18 14)	·	
tightening torque	· · · · · · · · · · · · · · · · · · ·				
for main contacts for ring cable lug		4.5 6 N·m			
outer diameter of the usable ring cable lug maximum		19 mm			
tightening torque					
for main contacts with screw-type terminals		4.5 6 N·m			
 for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals 			0.8 1.2 N·m		
design of screwdriver shaf			Hexagonal socket		
size of the screwdriver tip			4 mm hexagon socket		
design of the thread of the	connection screw				
• for main contacts	connection ourdw		M8		
 of the auxiliary and co 	ntrol contacts		M3		
• of the auxiliary and co Safety related data		_			
T1 value for proof test interva 61508	al or service life acco	ording to IEC	20 a		
protection class IP on the	front according to	IEC 60529	IP20		
touch protection on the fro			finger-safe, for vertical contact	t from the front	
Display		6 60525	inger-sale, for vertical contact		
		_	Olida avritati		
display version for switching	status		Slide switch		
Certificates/ approvals					
General Product Approval				For use in hazardou	s locations
	Confirmation	\sim		~	
(m)	Confirmation	س	CO C	()	IECEx
	Confirmation	ሠ	EAC	(Ex)	IECEx
	<u>Confirmation</u>	(h) u	EHC	(Ex)	IECEx
	<u>Confirmation</u>	(UL)	EHC	KEX ATEX	IECEX
CCC	<u>Confirmation</u>		EAC	ATEX ATEX	IECEx
CCC	<u>Confirmation</u>	UL Test Certificate	S	ATEX	IECEX
	Confirmation			Marine / Shipping	IECEX
	Confirmation	Type Test Cert	ific- Special Test Certific-	Marine / Shipping	IECEx
	Confirmation		ific- Special Test Certific-	Marine / Shipping	IECEx IECEx
Declaration of Conformity	<u>Confirmation</u>	Type Test Cert	ific- Special Test Certific-	Marine / Shipping	IECEx IECEX
	C€	Type Test Cert	ific- Special Test Certific-	Marine / Shipping	IECEX
	C€	Type Test Cert	ific- Special Test Certific-	Marine / Shipping	IECEX
UK CA	C€	Type Test Cert	ific- Special Test Certific-	Marine / Shipping	IECEX
	C€	Type Test Cert	ific- Special Test Certific-	Marine / Shipping	BUREAU VERITAS
UK CA	C€	Type Test Cert	ific- Special Test Certific-	Marine / Shipping	BUREAU VERITAS
UK CA	C€	Type Test Cert	ific- Special Test Certific-	Marine / Shipping	EUREAU VERITAS
Marine / Shipping	EG-Konf.	Type Test Cert	ific- Special Test Certific-	Marine / Shipping	EUREAU VERITAS
UK CA	C€	Type Test Cert	ific- Special Test Certific-	Marine / Shipping	EUREAU VERITAS
Marine / Shipping	EG-Konf.	Type Test Cert	ific- Special Test Certific-	Marine / Shipping	EUREAU VERITAS
UK CA Marine / Shipping	EG-Konf.	Type Test Cert	ific- Special Test Certific-	Marine / Shipping	EUREAU VERITAS
Marine / Shipping	EG-Konf.	Type Test Cert	ific- Special Test Certific-	Marine / Shipping	EUREAU VERITAS
UK Ca Marine / Shipping	EG-Konf.	Type Test Cert	ific- Special Test Certific-	Marine / Shipping	EUREAU VERITAS
Warine / Shipping Display Railway Special Test Certific-	EG-Konf.	Type Test Cert	ific- Special Test Certific-	Marine / Shipping	EUREAU VERITAS
UK Ca Marine / Shipping	EG-Konf.	Type Test Cert	ific- Special Test Certific-	Marine / Shipping	EUREAU VERITAS
Warine / Shipping Display Railway Special Test Certific-	EG-Konf.	Type Test Cert	ific- Special Test Certific-	Marine / Shipping	EUREAU VERITAS
Warine / Shipping Display Railway Special Test Certific-	EG-Konf.	Type Test Cert	ific- Special Test Certific-	Marine / Shipping Jaire Jai	EUREAU VERITAS
Warine / Shipping Display Railway Special Test Certific-	EG-Konf.	Type Test Cert	ific- Special Test Certific-	Marine / Shipping Marine / Shipping ABS	EUREAU VERITAS
UK Marine / Shipping Display Railway Special Test Certificate ate	EG-Konf.	Type Test Cert	ific- Special Test Certific-	Marine / Shipping Warine / Shipping <t< td=""><td>EUREAU VERITAS</td></t<>	EUREAU VERITAS
UK Caliboration Marine / Shipping	EG-Konf.	Type Test Cert ates/Test Rep	ific- Special Test Certific-	Marine / Shipping Warine / Shipping <t< td=""><td>EUREAU VERITAS</td></t<>	EUREAU VERITAS

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=3RU2146-4KB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2146-4KB0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RU2146-4KBC

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

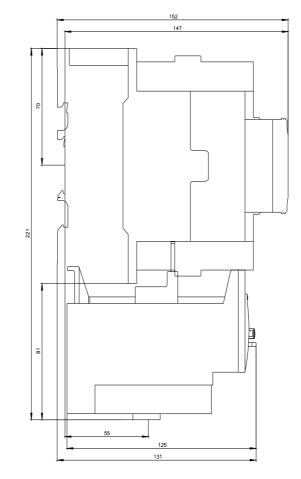
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2146-4KB0&lang=en

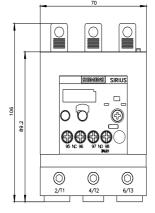
Characteristic: Tripping characteristics, I²t, Let-through current

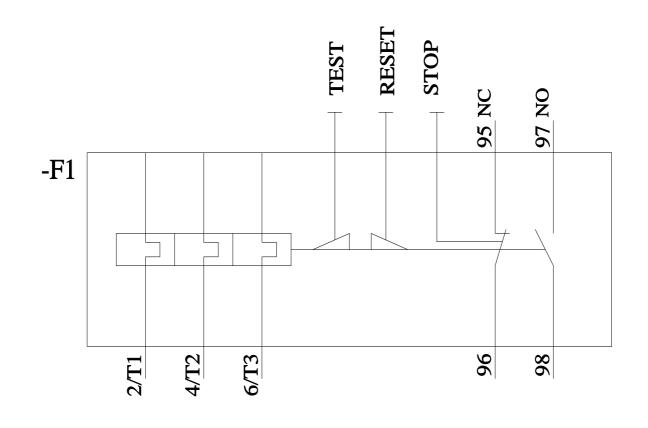
https://support.industry.siemens.com/cs/ww/en/ps/3RU2146-4KB0/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2146-4KB0&objecttype=14&gridview=view1







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