SIEMENS

Data sheet

3RU2116-1CC0



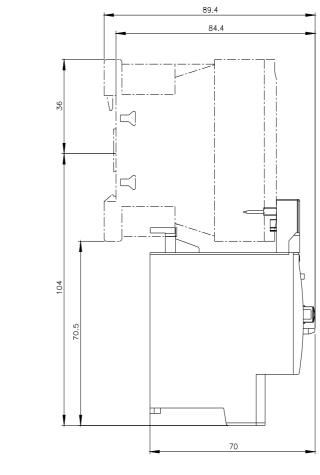
Overload relay 1.8...2.5 A Thermal For motor protection Size S00, Class 10 Contactor mounting Main circuit: Spring-type terminal Auxiliary circuit: spring-type terminal Manual-Automatic-Reset

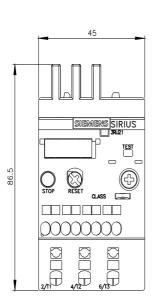
product brand name SIRUS product brand name SIRUS central tachnical data stee of verificat data size of contactor can be combined company-specific S00 portait display S00 size of verificat data 57 W operating state 90 V surge voltage with degree of pollution 3 at AC rated value 680 V surge voltage resistance rated value 64 V maximum permissible voltage for protective separation 64 V e in networks with ungrounded star point between auxiliary 440 V and auxiliary circuit 440 V e in networks with grounded star point between auxiliary 440 V e in networks with grounded star point between main and auxiliary circuit 440 V e in networks with grounded star point between main and auxiliary circuit 440 V substance Prohibitance (Date) 1001/2009 SVBstance Prohibitance (Date) 1001/2009 SVBstance Prohibitance (Date) 1001/2009 SVBstance Prohibitance (Date) 2000 m ambient temporature -480 °C e during uperation -40	and wet brand name	SIRIUS
product type designation 3RU2 Ceneral technical data	•	
General lechical data size of overload relay S00 oper diss [M] for rated value of the current at AC in hot operating state S00 • per pole 1.9 W insulation voltage with degree of pollution 3 at AC rated value 690 V surget voltage resistance rated value 64V • in networks with ungrounded star point between auxiliary and auxiliary circuit 440 V • in networks with ungrounded star point between auxiliary and auxiliary circuit 440 V • in networks with grounded star point between main and auxiliary circuit 440 V • in networks with grounded star point between main and auxiliary circuit 440 V • in networks with grounded star point between main and auxiliary circuit 440 V • stock resistance according to IEC 60068-2-27 F Substance Prohibitance (Date) 10/01/2009 SWE austance name Lead - 7439-92-1 Weight 0.175 kg Ambient conditions 2000 m <	· · · · · · · · · · · · · · · · · · ·	·
size of overload relay S00 size of contactor can be combined company-specific S00 power loss (M) 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 680 V surge voltage resistance rated value 680 V auxiliary origination of the grounded star point between auxiliary and auxiliary origination of the train of the tween auxiliary and auxiliary origination of the tween auxiliary auxiliary origination		3RU2
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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 0.175 kg Ambient conditions installation altitude at height above sea level maximum abient 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 3 adjustable current response value current of the current- dependent overload release 690 V operating voltage 690 V • at AC-3e rated value 690 V • at AC-3e rated value 50 60 Hz		440 V
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Substance Prohibitance (Date) 10/01/2009 SVHC substance name Lead - 7439-92-1 Weight 0.175 kg 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-dependent overload release 18 2.5 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 690 V • operating frequency rated value 50 60 Hz	shock resistance according to IEC 60068-2-27	8g / 11 ms
SVHC substance name Lead - 7439-92-1 Weight 0.175 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 3 number of poles for main current circuit 3 adjustable current response value current of the current- 1.8 2.5 A operating voltage 690 V • at AC-3e rated value 690 V • at AC-3e rated value 690 V • at AC-3e rated value 690 V	reference code according to IEC 81346-2	F
Weight 0.175 kg Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature 2 000 m • 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 1.8 2.5 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 690 V • operating frequency rated value 50 60 Hz	Substance Prohibitance (Date)	10/01/2009
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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 1.8 2.5 A operating voltage 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz	Weight	0.175 kg
ambient temperature• during operation• during storage• during storage• during transport-55 +80 °C• during transport-55 +80 °Ctemperature compensation-40 +60 °Crelative humidity during operation10 95 %Main circuitnumber of poles for main current circuit3adjustable current response value current of the current- dependent overload releaseoperating voltage• rated value690 V• at AC-3e rated value maximum690 Voperating frequency rated value50 60 Hz	Ambient conditions	
• during operation-40 +70 °C• during storage-55 +80 °C• during transport-55 +80 °C• during transport-55 +80 °Ctemperature 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 release1.8 2.5 Aoperating voltage690 V• at AC-3e rated value maximum690 Voperating frequency rated value50 60 Hz	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 1.8 2.5 A operating voltage 690 V • at AC-3e rated value maximum 690 V • at AC-3e rated value maximum 690 V	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 1.8 2.5 A operating voltage 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz	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 1.8 2.5 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz	 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 1.8 2.5 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz	 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 1.8 2.5 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz	temperature compensation	-40 +60 °C
number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 1.8 2.5 A operating voltage rated value 690 V at AC-3e rated value maximum 690 V 690 V 690 V 690 V 	relative humidity during operation	10 95 %
adjustable current response value current of the current- 1.8 2.5 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz	Main circuit	
adjustable current response value current of the current- dependent overload release1.8 2.5 Aoperating voltage690 V• rated value690 V• at AC-3e rated value maximum690 Voperating frequency rated value50 60 Hz	number of poles for main current circuit	3
• rated value 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz	adjustable current response value current of the current-	1.8 2.5 A
• at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz	operating voltage	
operating frequency rated value 50 60 Hz	rated value	690 V
	 at AC-3e rated value maximum 	690 V
	operating frequency rated value	50 60 Hz
		2.5 A

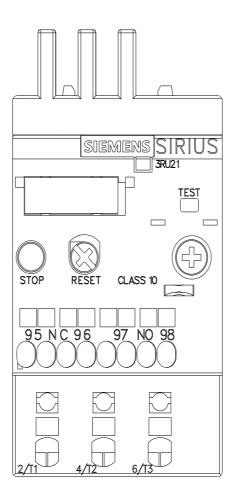
operational current at AC-3e at 400 V rated value	2.5 A
operating power	
• at AC-3	
— at 400 V rated value	0.75 kW
— at 500 V rated value	1.1 kW
— at 690 V rated value	1.5 kW
• at AC-3e	1.5 KW
	0.75 kW
— at 400 V rated value — at 500 V rated value	1.1 kW
— at 690 V rated value	1.5 kW
Auxiliary circuit	integrated
design of the auxiliary switch	integrated
number of NC contacts for auxiliary contacts	1 for contrator disconnection
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	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 	2.5 A
• at 600 V rated value	2.5 A
Short-circuit protection	
design of the fuse link	
 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	87 mm
width	45 mm
depth	70 mm
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	No
type of electrical connection	
• for main current circuit	spring-loaded terminals
 for auxiliary and control circuit 	spring-loaded terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	
for main contacts	
— solid or stranded	1x (0,5 4 mm²)
- finely stranded with core end processing	1x (0.5 2.5 mm²)
 finely stranded without core end processing 	1x (0.5 2.5 mm²)

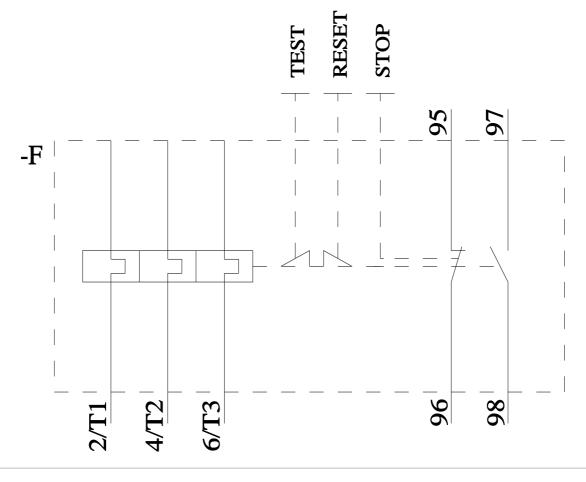
 for AWG cables 	• for AWG cables for main contacts		1x (20 12)		
type of connectable conductor cross-sections					
 for auxiliary cont 	tacts				
— solid or stranded		2x (0.5 2.5 mm²)			
 finely stranded with core end processing 		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
 finely stranded without core end processing 		2x (0.5 1.5 mm ²)			
 for AWG cables for auxiliary contacts 		2x (20 14)			
design of screwdriver shaft		Diameter 3 mm			
size of the screwdriver tip		3,0 x 0,5 mm			
Safety related data					
failure rate [FIT] with low demand rate according to SN		50 FIT			
31920		2 280 a			
MTTF with high demand rate IEC 61508		2 200 a			
T1 value					
for proof test interval or service life according to IEC 61508		20 a			
Electrical Safety					
	n the front according to I	EC 60529	IP20		
•	he front according to IEC		finger-safe, for vertical conta	ict from the front	
Display			iniger care, for vertical conte		
display version for swit	ching status		Slide switch		
Approvals Certificates					
General Product App	proval				
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<u> </u>	CA		EG-Konf.	$\mathbf{v}_{\mathbf{u}}$	LIIL
For use in hazardous	locations	Test Certificate	es	Marine / Shipping	
IECE-		Special Test Ce ate	ertific- <u>Type Test Certific</u> ates/Test Report	The state of the s	
	(Ex/	ale	ales/rest Report		
IECEx	ATEX			ABS	BUREAU
					VERITAS
Marine / Shipping					other
			-	-	
ĴÅ	Lloyds	633			<u>Miscellaneous</u>
DNV	Register				
Participa -	LRS	-			
DNV	0.5	PRS	RINA	RMRS	
DNV	0.3	PRS	RINA	RMRS	
UNV		PRS	RINA	RMRS	
other	Railway	PRS Environment	RINA	RMRS	
	Railway	PRS	RINA	RMRS	
other Confirmation		Environment	RINA Environmental Con- firmations	RMRS	
	Railway	Environment		RMRS	
	Railway	Environment		RMRS	
	Railway	Environment		RMRS	
<u>Confirmation</u>	Railway	Environment		RMRS	
Confirmation Further information	Railway Special Test Certific- ate	PRS Environment		RMRS	
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http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2116-1CC0&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-1CC0/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-1CC0&objecttype=14&gridview=view1









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