SIEMENS

Data sheet

3RU2116-0EB0



Overload relay 0.28...0.40 A Thermal For motor protection Size S00, 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	S00			
size of contactor can be combined company-specific	S00			
power loss [W] for rated value of the current at AC in hot operating state	4.8 W			
• per pole	1.6 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	0.28 0.4 A			
operating voltage				
 rated value 	690 V			
at AC-3e rated value maximum	690 V			
operating frequency rated value	50 60 Hz			

	0.4.4
operational current rated value	0.4 A
operational current at AC-3e at 400 V rated value	0.4 A
operating power	
• at AC-3	
— at 400 V rated value	0.09 kW
— at 500 V rated value	0.12 kW
— at 690 V rated value	0.18 kW
• at AC-3e	
— at 400 V rated value	0.09 kW
— at 500 V rated value	0.12 kW
— at 690 V rated value	0.18 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	
• 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
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	800071300
	01 400 40
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 	0.4 A
 at 600 V rated value 	0.4 A
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the auxiliary switch 	fuse gG: 6 A, quick: 10 A
required	
Installation/ mounting/ dimensions	
mounting position	any
fastening method	Contactor mounting
height	76 mm
width	45 mm
depth	70 mm
•	
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	No
type of electrical connection	
	corow type terminale
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 or stranded 	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²

-	nded with core end proces	ssing		0.5 1.5 mm²), 2x (0.7		
	s for main contacts		2x (2	20 16), 2x (18 14),	2x 12	
	e conductor cross-sectio	ons				
 for auxiliary cor 						
— solid or st			2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
— finely stranded with core end processing		ssing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
 at AWG cables 	 at AWG cables for auxiliary contacts 		2x (20 16), 2x (18 14)			
tightening torque						
 for main contact 	cts with screw-type termina	als	0.8	1.2 N·m		
 for auxiliary contacts with screw-type terminals 		0.8 1.2 N·m				
design of screwdriv	design of screwdriver shaft		Diam	neter 5 6 mm		
size of the screwdri	size of the screwdriver tip		Pozic	driv PZ 2		
design of the thread	d of the connection scre	w				
 for main contact 	for main contacts					
 of the auxiliary 	and control contacts		М3			
Safety related data						
	low demand rate accordir	a to SN	50 FI	Т		
31920		19 10 311	5011			
MTTF with high den	nand rate		2 280	0 v		
	st interval or service life ac	cording to	20 y	- y		
IEC 61508						
60529	on the front according to	o IEC	IP20			
touch protection on	the front according to I	EC 60529	finge	er-safe, for vertical cont	act from the front	
Display						
display version for sw	vitching status		Slide	e switch		
Certificates/ approval	ls					
						For use in hazard-
Certificates/ approvation General Product Approved		_		_		For use in hazard- ous locations
		Confirmatio	<u>n</u>	Ē	rnr	
		Confirmatio	<u>n</u>	(IL)	FAC	
		Confirmatio	<u>n</u>	U L	EHC	
		Confirmatio	<u>n</u>	U	EAC	ous locations
		Confirmatio	<u>n</u>	UL	EAC	ous locations
General Product Ap	pproval		'n	UL	EAC	ous locations
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General Product Ap	pproval		'n		EAC Special Test Certific- ate	ous locations
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General Product Ap General Product Ap Constant Consta	pproval	rmity CE EG-Konf.		Type Test Certific-		ous locations

Further information

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=3RU2116-0EB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2116-0EB0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-0EB0

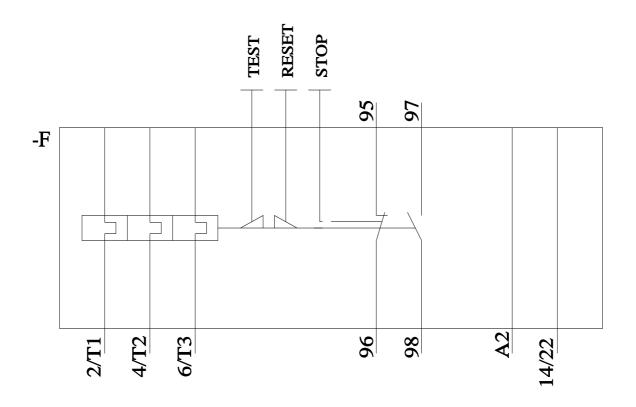
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2116-0EB0&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-0EB0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-0EB0&objecttype=14&gridview=view1



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