SIEMENS

Data sheet

3RU2116-1AB0



Overload relay 1.1...1.6 A Thermal For motor protection Size S00, Class 10 Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

and here have a series	
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	5.7 W
• per pole	1.9 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
SVHC substance name	Blei - 7439-92-1
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	1.1 1.6 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	1.6 A
operational current at AC-3e at 400 V rated value	1.6 A

operating power	
• at AC-3	
— at 400 V rated value	0.55 kW
— at 500 V rated value	0.75 kW
— at 690 V rated value	1.1 kW
• at AC-3e	
— at 400 V rated value	0.55 kW
— at 500 V rated value	0.75 kW
— at 690 V rated value	1.1 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 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	1.6 A
• at 600 V rated value	1.6 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	76 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 	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
- finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG cables for main contacts 	2x (20 16), 2x (18 14), 2x 12
type of connectable conductor cross-sections	

 for auxiliary containing 	acts				
— solid or stra			2x (0.5 1.5 mm²), 2x (0.7	5 2.5 mm²)	
	ded with core end proce	essina	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)		
	or auxiliary contacts		2x (20 16), 2x (18 14)		
ghtening torque	s. carmary contacts				
·	with screw-type termin	als	0.8 1.2 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			
	f the connection scre				
 for main contacts 		vv	M3		
 for main contacts of the auxiliary and control contacts 		M3 M3			
fety related data			NIS		
	ow demand rate acco	rding to SN	50 FIT		
31920 MTTF with high demand rate		2 280 a			
EC 61508					
	interval or service life	e according to	20 a		
EC 61508			200		
lectrical Safety					
rotection class IP on	the front according to	DIEC 60529	IP20		
ouch protection on th	e front according to I	EC 60529	finger-safe, for vertical conta	act from the front	
play	-				
isplay version for swite	ching status		Slide switch		
provals Certificates					
	EG-Konf.		<u>Confirmation</u>	(UL)	EAC
UK CA	CE EG-Konf.				EHC
UK CA	CE EG-Konf.	CCC Test Certificat		UL Marine / Shipping	EAC
UK CA	CE EG-Konf.		es rtific- <u>Special Test Certific</u>		
UK CA For use in hazardous	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	Test Certificat	es rtific- <u>Special Test Certific</u>		Effic UREAU VERITAS
General Product Appr UK For use in hazardous Exercised Marine / Shipping	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	Test Certificat	es rtific- <u>Special Test Certific</u>		Image: Content of the sector of the secto
UK For use in hazardous \widetilde{c}	Iocations	Test Certificat	es rtific- <u>Special Test Certific</u>		
UK For use in hazardous \widetilde{k} Arex Marine / Shipping	Iocations	Test Certificat	es rtific- <u>Special Test Certific</u>		
UK For use in hazardous	Iocations	Test Certificat	es rtific- <u>Special Test Certific</u>		

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 system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU2116-1AB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2116-1AB0

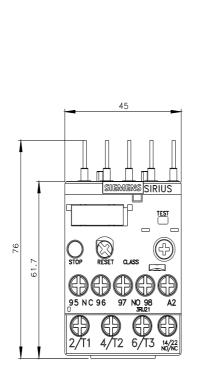
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-1AB0

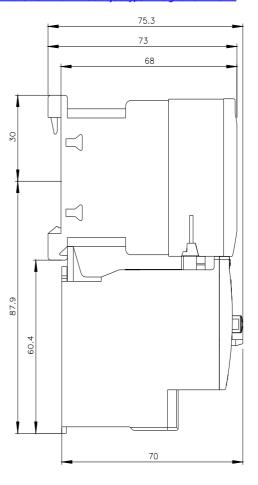
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2116-1AB0&lang=en

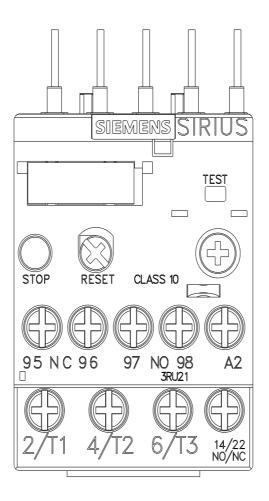
Characteristic: Tripping characteristics, I2t, Let-through current

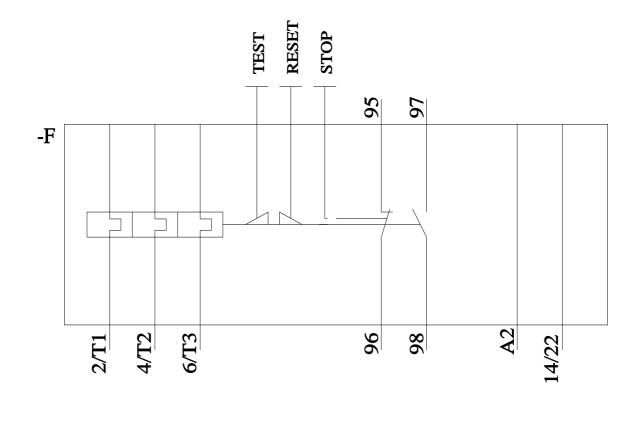
https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-1AB0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-1AB0&objecttype=14&gridview=view1









last modified:

9/5/2023 🖸