SIEMENS

Data sheet

3RU2116-0HB0



Overload relay 0.55...0.80 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	\$00
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 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	0.55 0.8 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	0.8 A
operational current at AC-3e at 400 V rated value	0.8 A

operating power	
• at AC-3	
— at 400 V rated value	0.18 kW
— at 500 V rated value	0.25 kW
— at 690 V rated value	0.37 kW
● at AC-3e	
— at 400 V rated value	0.18 kW
— at 500 V rated value	0.25 kW
— at 690 V rated value	0.37 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
• 4(220)	
contact rating of auxiliary contacts according to UI	B600 / B300
contact rating of auxiliary contacts according to UL Protective and monitoring functions	B600 / R300
Protective and monitoring functions	B600 / R300 CLASS 10
Protective and monitoring functions trip class	
Protective and monitoring functions trip class design of the overload release	CLASS 10
Protective and monitoring functions trip class design of the overload release UL/CSA ratings	CLASS 10
Protective and monitoring functions trip class design of the overload release	CLASS 10
Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	CLASS 10 thermal
Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value	CLASS 10 thermal
Protective and monitoring functions trip class design of the overload release 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	CLASS 10 thermal
Protective and monitoring functions trip class design of the overload release 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	CLASS 10 thermal 0.8 A 0.8 A
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Protective and monitoring functions trip class design of the overload release 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	CLASS 10 thermal 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A any
Protective and monitoring functions trip class design of the overload release 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 	CLASS 10 thermal 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A any Contactor mounting
Protective and monitoring functions trip class design of the overload release 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	CLASS 10 thermal 0.8 A 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm
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Protective and monitoring functions trip class design of the overload release 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	CLASS 10 thermal 0.8 A 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm
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Protective and monitoring functions trip class design of the overload release 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	CLASS 10 thermal 0.8 A 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm
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 for auxiliary contain 	cts				
— solid or strar			2x (0.5 1.5 mm²), 2x (0.75	2.5 mm²)	
	ed with core end proce	ssina		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
 for AWG cables for 			2x (0.0 1.0 min), 2x (0.10 2x (20 16), 2x (18 14)		
ightening torque			,, (.c)		
	with screw-type termin	als	0.8 1.2 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 shaft		Diameter 5 6 mm			
ize of the screwdriver tip		Pozidriv PZ 2			
lesign of the thread of	-	N			
 for main contacts 			M3		
 for main contacts of the auxiliary and control contacts 		M3			
fety related data					
ailure rate [FIT] with lo	ow demand rate acco	rding to SN	50 FIT		
MTTF with high demand rate		2 280 a			
EC 61508					
1 value for proof test EC 61508	interval or service life	e according to	20 a		
lectrical Safety					
rotection class IP on	the front according to	DIEC 60529	IP20		
ouch protection on the			finger-safe, for vertical contact	ct from the front	
splay					
isplay version for switch	hing status		Slide switch		
provals Certificates	Ŭ				
	eval EG-Konf.	3	Confirmation	<u>ل</u>	EAC
UK CA	CE EG-Konf.	CCC Test Certificat		Warine / Shinping	EAC
General Product Appro	CE EG-Konf.	CCC Test Certificat		UL Marine / Shipping	EAC
UK CA	CE EG-Konf.	Test Certificat	es tific- <u>Special Test Certific-</u>		ERC Bureau Veritas
UK Cor use in hazardous I	CE EG-Konf.	Type Test Cer	es rtific- <u>Special Test Certific-</u>		EFRE UNEAU UNEAU UNEAU UNEAU
UK CA For use in hazardous I	CE EG-Konf.	Type Test Cer	es rtific- <u>Special Test Certific-</u>		Conter Miscellaneous
UK Cor use in hazardous I IECEX Marine / Shipping	Cocations	Type Test Cer	es tific- <u>Special Test Certific-</u> port <u>ate</u>		
UK For use in hazardous I IECEX Marine / Shipping	Cocations	Type Test Cer	es tific- <u>Special Test Certific-</u> port <u>ate</u>		
UK For use in hazardous I IECEX Marine / Shipping	Cocations	Type Test Cer	es tific- <u>Special Test Certific-</u> port <u>ate</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=3RU2116-0HB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2116-0HB0

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

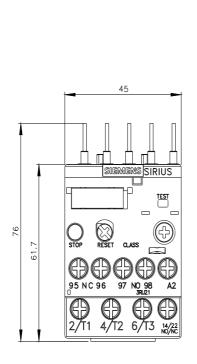
https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-0HB0

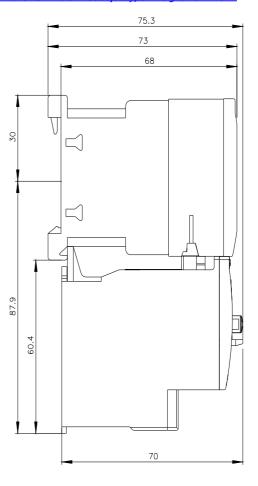
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2116-0HB0&lang=en

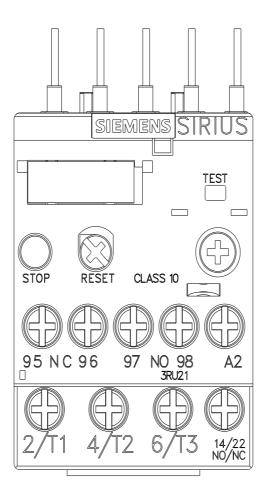
Characteristic: Tripping characteristics, I2t, Let-through current

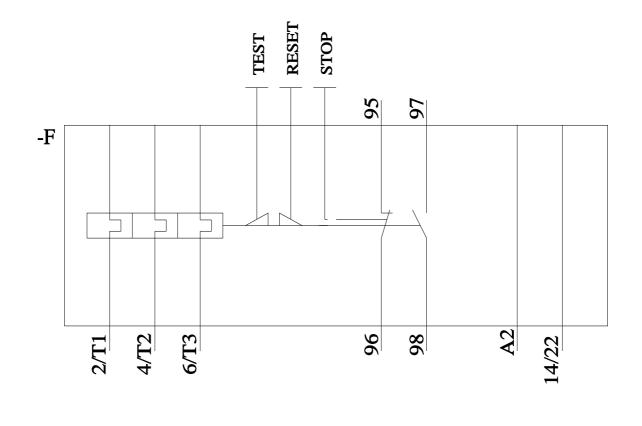
https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-0HB0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-0HB0&objecttype=14&gridview=view1









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