SIEMENS

Data sheet 3RU2116-1HB0



Overload relay 5.5...8.0 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	6.6 W	
• per pole	2.2 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	Main circuit	
number of poles for main current circuit	3	
adjustable current response value current of the current-dependent overload release	5.5 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	8 A	
operational current at AC-3e at 400 V rated value	8 A	

operating power	operating power	
at 500 V retet value		3 kW
- al 600 V rated value		
and AC-3e — at 500 V rated value 5,5 kW Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts • note number of NC contacts for auxiliary contacts • note number of NC contacts for auxiliary contacts • note number of NC contacts for auxiliary contacts • note number of CO contacts for auxiliary contacts • note number of NC contacts for auxiliary contacts • note number of NC contacts for auxiliary contacts • note number of NC contacts for auxiliary contacts • note number of NC contacts for auxiliary contacts • note number of NC contacts for auxiliary contacts • note number of NC contacts for auxiliary contacts • note number of NC contacts for auxiliary contacts • note 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
— at 600 Y rated value — at 690 V rated value — at 690 V rated value — at 690 V rated value		J.J RVV
		3 kW
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operational current of auxiliary contacts at AC-15 • at 24 V 3 A • at 110 V 3 A • at 125 V 3 A • at 25 V 3 A • at 230 V 1 A • at 25 V 2 A • at 400 V 1 A operational current of auxiliary contacts at DC-13 • at 24 V 2 A • at 110 V 0.3 A • at 24 V 2 A • at 110 V 0.3 A • at 24 V 2 A • at 110 V 0.22 A • at 110 V 0.22 A • at 120 V 0.22 A • at 20 V 0.22 A • at 300 V 7800 The contact rating of auxiliary contacts according to UL **B600 / R300 **Protective and monitoring functions** **Initial accurrent (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • A **Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required fracquired fractactor mounting fastening method height width depth 70 mm Connectable conductor cross-sections • for main current circuit type of eloctrical connection • for main current circuit type of connectable conductor cross-sections • for main current dircuit 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		
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contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class		
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- finely stranded with core end processing

• at AWG cables for auxiliary contacts

tightening torque

• for main contacts with screw-type terminals

• for auxiliary contacts with screw-type terminals

design of screwdriver shaft

size of the screwdriver tip

design of the thread of the connection screw

• for main contacts

• of the auxiliary and control contacts

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (20 ... 16), 2x (18 ... 14)

0.8 ... 1.2 N·m 0.8 ... 1.2 N·m

Diameter 5 ... 6 mm

Pozidriv PZ 2

M3 М3

Safety related data

failure rate [FIT] with low demand rate according to SN 31920

MTTF with high demand rate

T1 value for proof test interval or service life according to IEC 61508

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529

50 FIT

2 280 y

20 y

IP20

finger-safe, for vertical contact from the front

display version for switching status

Slide switch

Certificates/ approvals

General Product Approval

For use in hazardous locations



Confirmation









For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping







Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report



Marine / Shipping













other

Railway

Confirmation

Vibration and Shock

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=3RU2116-1HB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2116-1HB0

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

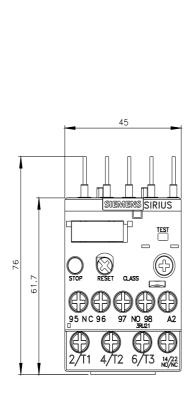
https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-1HB0

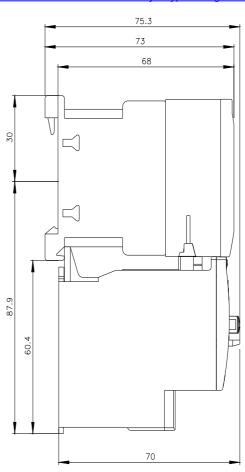
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2116-1HB0&lang=en

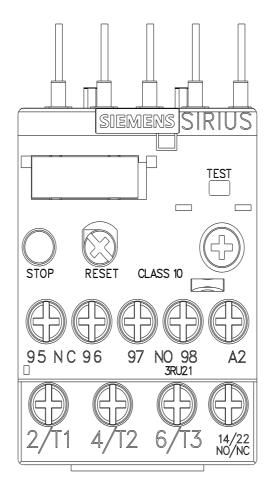
Characteristic: Tripping characteristics, I2t, Let-through current

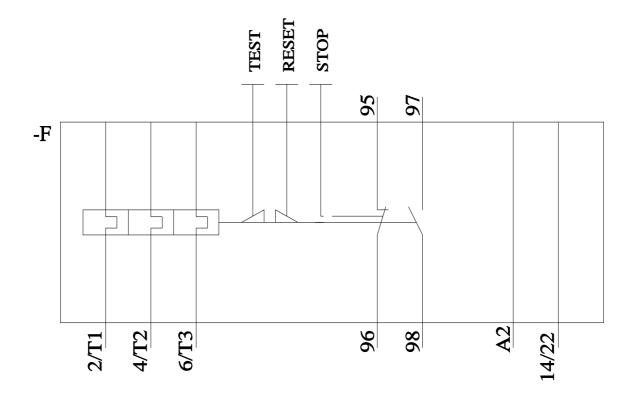
https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-1HB0/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-1HB0&objecttype=14&gridview=view1









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