SIEMENS

Data sheet 3RU2116-1CC1



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

product type designation general technical data size of overload relay size of contactor can be combined company-specific power loss [W] for rated value of the current at AC in hot operating state • per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value • between auxiliary and auxiliary circuit • between main and auxiliary circuit thermal overload relay 3RU2 S00 5.7 W 5.7 W 690 V 6 kV 7 kV 8	
size of overload relay size of contactor can be combined company-specific power loss [W] for rated value of the current at AC in hot operating state • per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value maximum permissible voltage for protective separation in networks with grounded star point • between auxiliary and auxiliary circuit • between auxiliary and auxiliary circuit • between main and auxiliary circuit 440 ∨ • between main and auxiliary circuit 440 ∨	
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maximum permissible voltage for protective separation in networks with grounded star point • between auxiliary and auxiliary circuit • between auxiliary and auxiliary circuit • between main and auxiliary circuit 440 V	
networks with grounded star point • between auxiliary and auxiliary circuit • between auxiliary and auxiliary circuit • between main and auxiliary circuit 440 V • between main and auxiliary circuit 440 V	
 between auxiliary and auxiliary circuit between main and auxiliary circuit 440 V 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	
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	
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 2.5 A	
operational current at AC-3e at 400 V rated value 2.5 A	
operating power	

• at AC-3	
at AC-3— at 400 V rated value	0.75 kW
— at 500 V rated value	1.1 kW
	1.1 KW
— at 690 V rated value • at AC-3e	1.9 куу
	0.75 NN
— at 400 V rated value	0.75 kW 1.1 kW
— at 500 V rated value— at 690 V rated value	1.1 KW
Auxiliary circuit	1.5 KVV
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	CLASS 10 thermal
•	
design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	thermal
design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value	thermal 2.5 A
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	thermal
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	thermal 2.5 A
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	thermal 2.5 A 2.5 A
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	thermal 2.5 A
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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	thermal 2.5 A 2.5 A 1.5 A 1.5 A 2.5 A 2.5 A 2.5 A
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	thermal 2.5 A 2.5 A fuse gG: 6 A, quick: 10 A any stand-alone installation
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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 • for main current circuit	thermal 2.5 A 2.5 A fuse gG: 6 A, quick: 10 A any stand-alone installation 102 mm 45 mm 79 mm No spring-loaded terminals
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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 • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded	thermal 2.5 A 2.5 A fuse gG: 6 A, quick: 10 A any stand-alone installation 102 mm 45 mm 79 mm No spring-loaded terminals spring-loaded terminals Top and bottom 1x (0,5 4 mm²)
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• for auxiliary contacts - 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 mm²) • 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 31920 50 FIT MTTF with high demand rate 2 280 a T1 value for proof test interval or service life according to IEC 20 a 61508 IP20 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 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











Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report Special Test Certificate





Marine / Shipping





LRS







Confirmation

other

other

Railway



Vibration and Shock

Further information

Siemens has decided to exit the Russian market (see here).

 $\underline{\text{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}}$

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)

 $\underline{\text{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU2116-1CC1}}$

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2116-1CC1

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

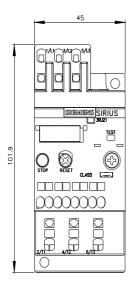
https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-1CC1

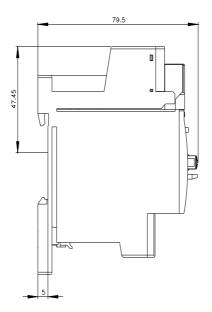
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

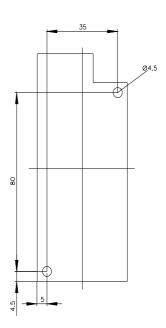
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2116-1CC1&lang=en

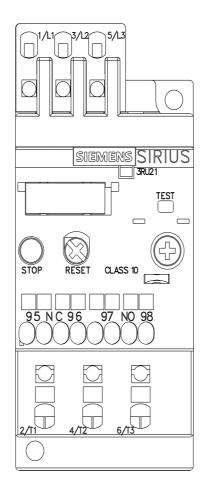
 $Characteristic: Tripping\ characteristics,\ I^2t,\ Let-through\ current$

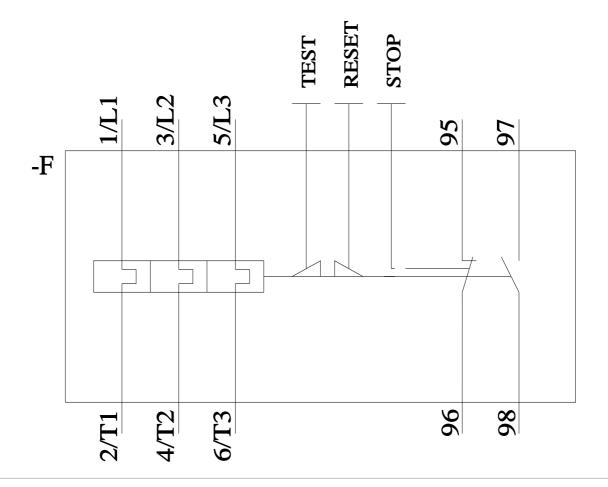
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